



# INVENTORY OF LAKES IN NEPAL (Annexes)

February 2021





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**February 2021**



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## Annex-1: Tool Sheet – Inventory of Himalayan lakes of Nepal

### 1. General Feature

Date of inventory

1. General feature:

Compiler's name:

<b>1.1 Conservation status</b> (mark with <input type="checkbox"/> )	Ramsar site	Natural heritage	Religious site	Protected area	KBA	Other

### 1.2 Geographical coordination

Attributes	Values
Latitude	
Longitude	
Altitude (masl)	

### 1.3 Geographical position (mark with )

Terai	Siwalik/Churiya zone	Mahabharat Lekh	Midlands	Himalayan zone	Inner Himalaya	Tibetan marginal mountain

### 1.4 Administrative feature

Attributes	Describe
Development region	
District (s)	
Metropolitan/municipality/VDC (s)	
Ward number (s)	
Name of the place	

### 1.5 Boundary (Villages, forestland, road etc like structures which surround lake)

Attributes	West	East	South	North
Core water body boundary				
Basin boundary				

### 1.6 Management responsibility

Attribute	Brief description
Government (specify)	
Private (specify)	
Community (specify)	
Others (specify)	

### 1.7 Lake classification

Type	Sub-type 1	Sub type II	Remarks
Fresh water/natural	Riverine	Perennial (specify):	
		Temporary (specify):	
	Lacustrine	Permanent (specify):	
		Seasonal (specify):	
	Palustrine	Emergent (specify):	
		Forest (specify):	
Man-made	Aquaculture (specify):		
	Agriculture (specify):		
	Urban/ industrial (specify):		
	Water storage area (specify):		

### 1.8 Climatic Feature

Attribute	Avg. Maximum		Avg. Minimum		Source and year of record
	Month	Value	Month	Value	
Temperature (°C)					
Rainfall (mm/yr.)					

### 2. Ecological Feature

#### 2.1 Physical Structure

Attribute	Core area	Basin
Area (ha)		
Average length (m)		Not applicable
Average width (m)		Not applicable
Maximum depth (m)		Not applicable
Maximum/minimum surface water level (m)		Not applicable

## 2.2 Hydrological feature

### Water volume

Attribute	Peak period	Dry period
Water volume (m <sup>3</sup> )		

### Water inflow/outflow

Attribute	Name	Discharge rate (m <sup>3</sup> /second)	Source and year of record
Inflow			
Outflow			

### Water quality (Physico-chemical characters)

Attribute	Unit	Value	Source and year of record
Temperature	°C		
Ph	-		
Transparency	M		
Electric conductivity	□S/cm		
Dissolved oxygen	Mg/L		
Chemical oxygen demand	Mg/L		
Biological oxygen demand	Mg/L		
Total dissolved solid	Mg/L		
Total suspended solid	Mg/L		
Nutrients (NO <sub>3</sub> ,NH <sub>4</sub> , K, Ca, Mg,Na,, CO <sub>3</sub> , HCO <sub>3</sub> , dissolved Silica)	Mg/L		

### 2.3 Shocks & vulnerability i.e., natural disaster/flood/landslide/GLOF (time series events if available)

### 2.4 Soil feature

#### Soil color (mark with□)

Dark	Red	Grey	White	Others

#### Soil texture (mark with□)

Boulders	Rocky sand	Sand	Loamy sand	Sandy loam	Sandy silt loam	Silt loam	Clay loam	Sandy clay loam	Silty clay loam	Sandy clay	Silty clay	Clay	Peat

### 2.5 Biological feature (Use separate sheet if needed)

#### Macro-biota (common plants & animals including IUCN red List, CITES and government protected species)

#### A. Major aquatic plants in core area (Ff=Free floating, Sm=sub-merged and Em=emergent)

Local name	Scientific name	Local use	Habitat type ( mark with √)			Threat/conservation status
			Ff	Sm	Em	

Source:

#### B. Major Plants of Basin Area (Habit type: Tree, Herb, Shrub, Climber and Epiphyte)

Local Name	Scientific Name	Local use	Habit type	Threat/conservation status

Source:

#### C. Fish species

Local name	Scientific name	Number per catch	Local use	Threat/conservation status	Remarks (Resident/migratory/introduced sps.)

Source:

#### D. Herpetofauna in aquatic & basin area

Local name	Scientific name	Observed number	Local use	Threat/conservation status

Source:



**E. Birds in aquatic & basin area**

Local name	Scientific name	Observed number	Local use	Threat/conservation status	Remarks (resident/migratory)

Source:

**F. Mammals in aquatic & basin area**

Local name	Scientific name	Observed number	Local use	Threat/conservation status

Source:

**2.6 Invasive alien plants and animal species in core and basin area**

Local name	Scientific name	Coverage (%)	Local use	Plant or animal		Mark With <input type="checkbox"/>	Year of appearance
				Core	Basin		

Source:

**2.7 Endemic plant & animal species in core and basin area**

Local name	Scientific name	Mark with <input type="checkbox"/>		Remark (status, use, etc.)
		Plant	Animal	

Source:

**3. Socio-economic feature in basin****3.1 Nearby settlement to lake**

Name & distance (Km) to the nearest settlement	
Name of the main road/trail linking wetland site	

**3.2 Land Use Pattern**

Attributes	Coverage (%)	Remarks
Forestland		
Shrubland		
Grassland		
Agriculture		
Settlement		
Wetlands		
Others		

Source:

**3.3 Demography**

Attributes	Brief description	Remarks
Population (in number)		
Male		
Female		
Total household (in number)		
Caste/ethnic group (%)		
(i) Brahmin/Chettri		
(ii) Janajati		
(iii) Dalit		
(iv) Others (specify)		
1. Major religion		

Source:

**3.4 Jurisdiction/land ownership (mark with )**

State	Gazetted	Trust	Corporate	Private	Other (specify)

**3.5 Lake dependent communities**

Community name	Population & (hhs) number	Distance to site (m/Km)	Literacy (%)	Occupation	Wetland Dependency (month/yr)	Annual income (Rs/HH)

Source:

**3.6 Livestock in lake basin**

Attribute	Total number	Remarks
Livestock (Cattle, buffalo, sheep, goat)		

Source:

### 3.7 Traditional production system

Attributes	Brief description
Rice fields (estimate area in Ha)	
Traditional fishery (type, beneficiary HH)	
Major NTFPs type	
Others (specify)	

Source:

### 3.8 Traditional water use techniques & practices

Attributes	Numbers	Brief description (status and use)
Water mill (Ghatta)		
Irrigation system (Rajkulo, FMIS/Agency managed)		
Community pond		
Religious/ritual pond		
Well and <i>kuwa</i>		
Spring and stone spout (other traditional taps)		
Traditional navigation (wooden/ bamboo boats)		
Others (specify)		

Source:

### 3.9 Cultural record

Attributes	Brief description
Paleontological record	
Archaeological record	
Religious site record	
Cultural landscape/ religious belief and myth	
Others (oral tradition/ Arts/music/ song/ dance/painting/literature/drama)	

Source:

### 3.9 Describe Genesis/origin of lake if known (use separate sheet if needed)

## 4. Ecosystem goods & services of lake

### 4.1 Provisional Services

Attributes	Brief description of services	Source
Drinking water supply		
Irrigating water supply		
Domestic water supply		
Industrial water supply		
Fish supply		
Timber supply		
Fiber supply		
Fuel wood supply		
Fodder/forager/grass supply		
Food (plants and animals)		
Medicine		
Hydropower		
Mining and extraction		
Handicraft material		
Genetic material		
Others (specify)		

### 4.2 Cultural services

Attributes	Brief description
Aesthetic and scenic service	
Religious/spiritual service	
Historic site	
Recreational/tourism	
Educational resource services	
Festivals/hat bazaar/mela	

## 5. Restoration/management responses

**Structural management responses** (mark with )

Attributes	Yes	No	Remarks
Any sewerage systems			
Any wastewater treatment systems			
Buildup of dikes/dams			
Afforestation			
Others (specify)			

**Non-structural management responses** (mark with )

Attributes	Yes	No	Remarks
Any informal rules			
Any formal rules			
Any economic incentives like subsidies/taxes			

**Conservation and monitoring plan** (mark with )

Attributes	Yes	No	If yes, list them
Any conservation plan			
Any monitoring plan			

**6. Tourism potential**

Attributes	Description
No. Of visitors per year	
Infrastructure facilities (hotels, capacity, communication and transport , health facilities etc)	
Human resources	
Any options for tourism promotion	

**7. Lake Condition** (mark with )

Good	Degrading	Degraded

## Annex-2: Wetland classification

Type	Sub-type 1	Sub-type 2	Sub-type 3	
Fresh water/ natural	Riverine	Perennial	1. Permanent rivers, streams, and waterfalls 2. Inland deltas.	
		Temporary	3. Seasonal and irregular rivers and streams 4. Riverine floodplains (river flats, flooded river basins, seasonally flooded grasslands.)	
	Lacustrine	Permanent	5. Permanent Fresh water lakes (>8 ha area), including shores subject to seasonal irregular inundation. 6. Permanent Fresh water ponds (<8 ha area)	
		Seasonal	7. Large seasonal Fresh water lakes 8. Seasonal fresh water lakes (>8 ha area), including floodplain lakes. 9. Small seasonal Fresh water ponds (<8 ha area)	
	Palustrine	Emergent	10. Permanent Fresh water marshes and swamps on inorganic soils, with emergent vegetation whose bases lie below the water table for most of the growing season. 11. Permanent peat-forming Fresh water swamps, including tropical upland valley swamps dominated by <i>Typha</i> . 12. Seasonal Fresh water marshes on inorganic soil, including sloughs, potholes, seasonally flooded meadows, sedge marshes, and dambos. 13. Peatlands, including acidophilous, ombrogenous, or soligenous mires covered by moss, herbs or dwarf shrub vegetation, and fens of all types. 14. Alpine and polar wetlands, including seasonally flooded meadows moistened by temporary water from snowmelt. 15. Fresh water springs and oases with surrounding vegetation 16. Volcanic fumaroles continually moistened by emerging and condensing water vapor.	
			Forest	17. Shrub swamps, including shrub-dominated Fresh water marsh, shrub carr and thickets, on inorganic soils. 18. Fresh water swamp forest, including seasonally flooded forest, wooded swamps on inorganic soils. 19. forest peatlands including peat swamp forest
	Man-made	Aquaculture		20. Aquaculture ponds (fish ponds and shrimp ponds)
		Agriculture		21. Ponds, including farm ponds, stock ponds, small tanks. 22. Irrigated land and irrigation channel (rice fields, canals and ditches) 23. Seasonally flooded arable land.
		Urban/ industrial		24. Excavation (gravel pits, borrows pits and mining pools). 25. Wastewater treatment areas (sewage farms, setting pods and oxidation basins)..
		Water storage area		26. Reservoir holding water for irrigation and/or human consumption with a pattern of gradual, seasonal, draw down of water level 27. Hydro-dams with regular fluctuations in water level on a weekly or monthly basis.

(Source: Modified from Scott, 1989)

### Annex-3: List of all lakes included in this Lake Inventory Report

SN	Province	District	Name	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Alt masl (m)	Name of Palika (new local administrative unit)	Ward#	Core Area (ha)	Basin Area (ha)	L(m)	B(m)	D(m)	Entry Date	
1	१	Bhojpur	Chyangre Pokhari	27.158	87.139	1675	Pauwadungma	3	0.5	6.3	100	35	1.5	21/05/2013	
2			Haans Pokhari	27.300	86.984	2956	Temkemaityung	1	1.6	6	150	75	1	26/05/2013	
3			Manedanda Pokhari	27.101	87.152	1602	Pauwadungma	4	0.1	2.6	40	35	1	22/05/2013	
4			Nira Pokhari	27.111	87.126	1474	Pauwadungma	4	0.1	16.7	30	25	1	22/05/2013	
5		Dhankuta	Marga Pokhari	26.984	87.279	1570	Dhankuta	6	0.6	3.2	65	60	1	31/05/2012	
6			Rajarani Tal	26.881	87.436	1610	Chaubise	6	5.8	275.4	800	300	2	27/04/2012	
7		Ilam	Antu Pokhari	26.882	88.128	1653	Suryodaya	4	1.1	13.6	210	50	50	4.5	
8			Ashok Pokhari	26.882	88.034	1716	Suryodaya	11	0.2	6.3	60	40	40	1.5	14/06/2012
9			Gore Pokhari	26.838	88.064	1215	Rong	3	0.04	9.8	50	40	40	2	14/06/2012
10			Jor Pokhari	26.856	87.989	1565	Suryodaya	13	0.4	6.7	135	20	20	1.5	
11			Mai Pokhari	27.006	87.929	2125	Sandakpur	1	2.2	7.7	200	130	130	8.5	14/06/2012
12			Suke Pokhari	26.859	87.994	1704	Suryodaya	13	0.3	5.5	70	25	25	1.5	
13			Uttare Pokhari	26.948	88.020	2060	Maijogmai	1	0.4	6.6	70	40	40	4	
14			Arjundhara	26.685	87.988	153	Arjundhara	7	0.1	9	50	20	20	1	16/06/2012
15		Jhapa	Arna Khadi	26.647	87.653	118	Damak	4	1	22.8	125	40	40	0.5	31/05/2012
16			Banyani Bandh	26.630	87.802	123	Shivasataxi	8	0.6	44.9	150	100	100	2	9/6/2012
17			Dadagaun Bandh	26.636	87.794	124	Shivasataxi	1	0.6	15.4	140	50	50	1	2/6/2012
18			Deunia Khadi	26.391	88.031	64	Kachankawal	4	1.5	58.4	100	40	40	2	12/6/2012
19			Devi Pani	26.486	88.048	100	Haldibari	4	0.5	243	200	50	50	0.5	11/6/2012
20			Dhamala Bandh	26.638	87.801	130	Shivasataxi	8	0.2	44.9	100	100	50	1	23/06/2012
21	Dhanusha Pokhari		26.544	87.986	64	Haldibari	1	0.9	67.1	100	90	100	2	16/06/2012	

22	Dudamari Bandh-I	26.643	87.798	133	Shivasataxi	1	0.7	137.7	200	50	2	4/6/2012
23	Dudamari Bandh-II	26.630	87.796	124	Shivasataxi	1	0.8	28.6	400	50	2	8/6/2012
24	Indreni Tal	26.612	87.657	106	Damak	10	0.6	36.4	200	50	3	1/6/2012
25	Jamunkhadi	26.652	87.913	117	Kankai	2	4.5	215.4	300	200	4	16/06/2012
26	Katahare Bandh	26.635	87.800	127	Shivasataxi	8	0.2	44.9	110	50	1.5	4/6/2012
27	Kechana Rani Pokhari	26.388	87.998	64	Kachankawal	4	10.9	730.2	1000	50	4	15/06/2012
28	Lahure Bandh	26.634	87.804	127	Shivasataxi	8	0.2	18.1	450	15	2.5	4/6/2012
29	Lajeko Bandh	26.691	87.697	148	Damak	2	0.9	100.8	150	30	1	30/05/2012
30	Mahadevthan Bandh	26.520	87.652	88	Gauradhaha	6	0.1	25.8	75	25	3.5	2/6/2012
31	Pagari Bandh	26.630	87.810	123	Shivasataxi	8	0.1	37.8	120	50	1.5	7/6/2012
32	Pathariya Khadi	26.415	87.959	71	Kachankawal	1	0.9	46.6	240	20	1	14/06/2012
33	Salbari Tal	26.672	88.016	143	Arjundhara	11	1.7	158.2	600	100	5	10/8/2014
34	Bahane Pokhari	27.378	86.831	2394	Kepilasagadhi	1	0.6	5.8	150	50	2	3/6/2013
35	Baraha Pokhari	26.981	86.824	1016	Barahapokhari	1	3.3	85.3	270	130	10	30/05/2013
36	Chitta Pokhari	27.101	86.826	2017	Diprung Chuichumma	5	0.1	41.3	45	20	2	29/05/2013
37	Homma Pokhari	26.989	86.896	1603	Jantedhunga	5	0.1	5.6	45	20	1	31/05/2013
38	Indreni Pokhari	27.054	86.820	1692	Khotehang	6	0.1	3.8	60	50	1.83	29/05/2013
39	Kaali Pokhari	27.404	86.763	2459	Ainselukhark	5	0.1	3.2	100	70	0.5	4/6/2013
40	Laamche Pokhari	27.400	86.759	2388	Thulung Dudhkoshi	2	0.1	1.8	75	15	1.5	4/6/2013
41	Betini Simsar	26.682	87.610	131	Letang	9	2.8	109.8	700	350	2	14/12/2012
42	Betna Tal	26.660	87.440	130	Belbari	4	7.2	380.9	700	400	1.5	15/12/2012
43	Baghoda Pokhari	26.678	87.402	140	Belbari	10	1.9	69.6	500	30	3	14/12/2012
44	Dhanpalgadi Cluster Lake	26.595	87.396	104	Belbari	5	10	20	300	200	3	15/12/2012
45	Hasina Simsar Pokhari	26.692	87.317	136	Sundarharaicha	5	1.2	69.3	1000	450	2	14/12/2012

46	Rajarani Pokhari	26.749	87.482	476	Letang	1	8.4	62.1	300	200	2	
47	Raja Birat ko Pokhari	26.394	87.271	68	Biratnagar	17	1.1	57.6	50	50	1	14/12/2012
48	Raja Dhanpalthan Pokhari	26.447	87.378	70	Dhanpalthan	7	0.7	75.3	90	50	2	14/12/2012
49	Rani Pokhari	26.405	87.276	66	Biratnagar	14	0.3	75.3	90	80	1	14/12/2012
50	Rani Mantha Pokhari	26.405	87.273	68	Biratnagar	15	0.3	5	50	50	1	14/12/2012
51	Sunbarsi Pokhari	26.517	87.584	85	Sunwarshi	3	1.5	25	125	125	3	20/11/2012
52	Dabala Pokhari	27.222	87.956	2728	Falelung	3	0.2	6.8	50	35	3	11/6/2012
53	Gunte Pokhari	27.219	87.969	2866	Yangwarak	1	0.1	4.3	50	30	2.5	11/6/2012
54	Harkote Pokhari	27.219	87.992	2779	Falelung	1	0.03	4.8	25	20	2	11/6/2012
55	Hile Pokhari	27.220	87.950	2840	Falelung	3	0.1	4.6	50	30	1.5	11/6/2012
56	Jor Pokhari -I	27.214	87.820	1986	Hilihang	5	0.02	2.8	100	20	1.5	11/6/2012
57	Jor Pokhari-II	27.212	87.817	1992	Hilihang	5	0.1	2.8	150	20	1	11/6/2012
58	Lam Pokhari	27.219	87.996	2757	Falelung	1	0.3	14.6	115	20	1	11/6/2012
59	Suke Pokhari -I	27.218	87.971	2863	Yangwarak	3	0.7	5.3	80	50	1	11/6/2012
60	Suke Pokhari -II	27.061	87.835	2709	Phidim	14	0.2	2.1	300	55	1	11/6/2012
61	Gupha Pokhari	27.285	87.506	2900	Chainpur	1	0.4	41.2	100	50	1	3/6/2012
62	Lam Pokhari	27.263	87.489	2957	Madi	9	0.1	9.7	70	30	1.5	3/6/2012
63	Phurke Pokhari	27.345	86.656	1713	Nechasalyan	4	0.2	12.1	60	20	1	6/6/2013
64	Suke Pokhari	27.421	86.728	2074	Thulung Dudhkoshi	5	0.2	18.6	65	25	1.5	5/6/2013
65	Barju Tal	26.500	87.176	63	Barju	6	37.1	499.2	1000	1000	2	
66	Daite Pokhari	26.500	87.172	75	Barju	6	1.2	14.8	100	100	1.2	
67	Magar Daha	26.466	87.189	71	Barju	5	3	91.1	200	170	1	

68		Sabdov Jhil	26.458	87.185	71	Barju	5	4.9	75.4	300	200	1.5	
69		Tal Talaiya	26.700	87.483	135	Letang	3	3.2	242.3	1000	50	1.5	18/08/2014
70	Taplejung	Kali Pokhari -I	27.400	87.752	2685	Phungling	10	0.01	2.7	140	35	1	6/6/2012
71		Kali Pokhari -II	27.345	87.925	2680	Sidingba	7	0.4	6.8	120	50	1.5	6/6/2012
72		Suke Pokhari	27.345	87.936	2957	Sidingba	7	0.04	5.1	70	30	1	12/6/2012
73	Terhathum	Chichiling Pokhari	27.168	87.582	2105	Phedap	3	0.2	2	100	35	1	31/05/2012
74		Marga Pokhari	27.086	87.416	2432	Laligurans	1	0.2	4.1	100	50	1.5	12/4/2012
75		Mudke Aahal	27.029	87.369	1515	Dhankuta	2	0.1	5.2	40	25	0.5	12/4/2012
76		Panchakanya Pokhari	27.006	87.471	1275	Chhathar	3	0.2	13.1	80	40	0.5	31/05/2012
77	Udayapur	Belha Gavi	26.729	86.988	95	Belaka	2	1.6	28.2	500	50	1.5	21/05/2013
78		Dahar Pokhari	27.026	86.634	1900	Rautamai	1	0.1	8.5	80	80	1	20/04/2013
79		Rautamai Pokhari	26.935	86.701	1800	Triyuga	15	0.5	9.1	110	90	1	20/04/2013
80		Taple Pokhari	27.029	86.559	1900	Udayapurgadhi	2	0.6	9.7	200	40	1	22/04/2013
81	Bara	Gadiganga Taal	26.993	85.049	87	Mahagadhimai	1	1.67		150	125	1.8	27/4/2012
82		Halkhorja Lake	27.204	85.082	164	Nijgadh	4	33.5		400	190	1.2	28/5/2013
83		Ishara Pokhari	26.888	85.132	70	Simraungadh	4	2		350	300	6.1	26/5/2013
84		Jharkhuria Lake	26.871	85.160	68	Simraungadh	9	5		350	300	5	26/5/2013
85		Kamini Daha	27.291	84.963	328	Jitpur Simara	9	1.5		75	50	0.91	29/5/2013
86		Ramjanaki Pokhari	27.034	85.002	91	Kalaiya	1	1.6		150	120	1.5	27/5/2013
87		Sohiri Lake	27.070	85.004	103	Kalaiya	19	2.5		300	250	2.4	24/5/2013
88	Dhanusha	Aagni Kund	26.741	85.912	81	Janakpurdham	13	2.5	15 to 20	200	150	3	13/5/2013
89		Angraj Sar	26.731	85.926	57	Janakpurdham	6	3	10 to 15	200	150	4	21/5/2013
90		Beeshahara Sagar	26.723	85.931	65	Janakpurdham	4	4		400	150	2	24/5/2013
91		Bihar Kunda	26.738	85.912	81	Janakpurdham	8	2.5	15 to 20	200	150	3	23/5/2013
92		Bindhichowk Pokhari	26.707	85.893	45	Janakpurdham	23	4	10 to 12	200	150	5	23/5/2013



93	Biral Sagar	26.737	85.929	62	Janakpurdham	9	1.5	2	180	120	3	22/5/2013
94	Chapkai Pokhari	26.707	85.932	54	Janakpurdham	12	2	10 to 12	200	150	5	23/5/2013
95	Devpura Lake	26.679	85.923	47	Janakpurdham	20	2.8	4 to 5	180	160	3	22/5/2013
96	Dhanu Sagar	26.728	85.928	80	Janakpurdham	6	2	15 to 20	200	150	2	21/5/2013
97	Ganga Sagar	26.729	85.930	80	Janakpurdham	3	2	10 to 12	200	150	5	21/5/2013
98	Gautam Sarobar	26.664	85.924	61	Nagarain	5	4		300	200	2.5	22/5/2013
99	Ithi Pokhari	26.699	85.908	49	Janakpurdham	24	2		110	100	2	22/5/2013
100	Kapalmochani Sagar	26.732	85.921	54	Janakpurdham	8	2.5	3	300	150	3	21/5/2013
101	Kuti Pokhari	26.692	85.906	53	Janakpurdham	24	2		150	100	4	22/5/2013
102	Laski Pokhari (Shiva Sagar)	26.699	85.908	49	Janakpurdham	24	3		300	150	2	22/5/2013
103	Maharaj Sagar	26.732	85.922	59	Janakpurdham	8	6	10 to 12	300	200	3.5	21/5/2013
104	Manipal Taal	26.756	85.917	59	Janakpurdham	13	2	10 to 12	200	180	3	20/5/2013
105	Murali Sagar	26.723	85.929	64	Janakpurdham	4	4	7 to 8	200	180	2.5	23/5/2013
106	Parseni Sagar	26.763	85.925	64	Janakpurdham	14	2		120	100	1.5	20/5/2013
107	Rukmini Sagar	26.737	85.929	62	Janakpurdham	9	1.7	3	200	180	9	21/5/2013
108	Singrahi Lake	26.636	85.928	49	Nagarain	1	10	400 to 500	350	300	5	24/5/2013
109	Subbaji Pokhari	26.722	85.970	68	Janakpurdham	17	5		300	250	2.3	25/5/2013
110	Tarahi Pokhari (Laksman Sar)	26.733	85.929	60	Janakpurdham	10	2.5		150	100	1.5	23/5/2013
111	Bramhasthan Pokhari	26.659	85.778	76	Jaleswor	7	1.5		150	40	3	27/5/2013
112	Dami Madai Pokhari	26.706	85.807	44	Mahottari	3	2		100	100	2	25/5/2013
113	Gotman Sagar	26.830	85.802	31	Ramgopalpur	5	2	10 to 15	200	100	3	25/5/2013

114	Mahadev Pokhari	26.651	85.798	42	Jaleswor	1	4	10 to 12	290	140	2.5	25/5/2013
115	Naini Pokhari	26.646	85.761	52	Jaleswor	12	2		150	80	2.5	26/5/2013
116	Purni Pokhari	26.633	85.792	43	Jaleswor	3	4	10 to 15	250	150	3	26/5/2013
117	Rani Pokhari	26.681	85.795	36	Mahottari	4	3	3	350	300	2	28/5/2013
118	Satuniya Pokhari	26.810	85.789	94	Ramgopalpur	1	31	123	500	200	2	2/6/2013
119	Sukhdev Pokhari	26.637	85.811	64	Jaleswor	4	3	10 to 12	300	100	3.5	26/5/2013
120	Telia Pokhari	26.707	85.815	45	Mahottari	3	1	2	120	100	3	28/5/2013
121	Thari Pokhari	26.696	85.821	54	Mahottari	2	2	3	300	280	3	21/5/2013
122	Tharuha Pokhari	26.653	85.764	48	Jaleswor	12	1.5	3	250	180	3	28/5/2013
123	Gamharla Pokhari	27.038	84.686	80	Chhipaharmai	5	1.5		300	100	1.5	3/6/2013
124	Nawagachhi Dam	27.139	84.731	100	Jagarnathpur	4	35		800	300	5	5/6/2013
125	Rabidash Pokhari	27.078	84.714	86	Kalikamai	1	2		500	500	1.5	2/6/2013
126	Bauidhi Pokhari	26.939	85.269	84	Dewahhi Gonahi	7	2.01		300	275	3.1	23/5/2013
127	Chandi Pokhari	27.113	85.373	118	Chandrapur	4	1.2		250	100	2.1	22/5/2013
128	Dhamaura Pokhari	26.999	85.331	81	Brindaban	7	1		100	50	3	23/5/2013
129	Gaur Pokhari	26.763	85.279	60	Gaur	1	4.02		400	100	2.4	22/5/2013
130	Mahadev Pokhari	26.936	85.307	87.4	Garuda	5	1		100	75	1.5	22/5/2013
131	Mahakar Pokhari	26.909	85.190	73	Maulapur	7	2.68		400	300	2.7	23/5/2013
132	Mardhar Pokhari	27.087	85.358	104	Chandrapur	8	9.6		500	350	1.8	22/5/2013
133	Nagarpalika Pokhari	26.766	85.279	71	Gaur	1	4.5		400	100	1.8	22/5/2013
134	Nunthar Pokhari	27.150	85.488	187	Chandrapur	1	1		100	50	0.91	22/5/2013
135	Bagmohi Nadi	26.517	86.693	87	Bishnupur	2	6	145	1000	80	2	3/6/2013
136	Jhola Daha (Gopit Ganga)	26.881	87.436	110	Chaubise	6	2.1	92	300	70	1	26/5/2013
137	Lohajara Thakur Daha	26.616	86.841	114	Tirahut	5	3.77	78	290	130	2	25/5/2013

138	Purnai Pokhari	26.485	86.619	92	Dakneshwori	6	0.99	74	102	98	2	29/5/2013
139	Sakuwayi Pokhari	26.578	86.554	86	Bode Barsain	6	2.55	82	170	150	2	2/6/2013
140	Singaya Dhar	26.542	86.639	97	Dakneshwori	7	4	84	1000	40	5	30/5/2013
141	Singrahi Pokhari	26.474	86.693	98	Rajgadh	6	1.08	110	120	90	2	4/6/2013
142	Thani Pokhari	26.587	86.558	93	Bode Barsain	3	4.2	90	210	200	1	31/5/2013
143	Betini Daha	27.019	85.612	130	Lalbandi	3	4		350	155	4.5	21/5/2013
144	Chandragunj Pokhari	26.932	85.623	88	Chandranagar	7	0.95		220	85	2.4	21/5/2013
145	Hatmare Pokhari	26.922	85.519	95	Kabilasi	3	5		350	300	6.1	20/5/2013
146	Kerwa Pokhari	26.927	85.514	93	Kabilasi	3	4		300	250	5.2	20/5/2013
147	Lekhandehi Taal	26.930	85.500	77	Chakraghatta	1	2		250	175	3	21/5/2013
148	Math Pokhari	26.924	85.513	94	Kabilasi	3	3		300	180	6.1	20/5/2013
149	Nadhi Taal	26.931	85.623	86	Chandranagar	7	1.54		300	150	1.37	27/4/2012
150	Nagarpalika Pokhari	26.853	85.559	86	Malangawa	3	2		200	150	1.83	21/5/2013
151	Nassi Pokhari	26.855	85.553	85	Malangawa	2	0.6		200	150	3.05	21/5/2013
152	Panpiyaa taal	26.890	85.591	85	Bramhapuri	1	0.53		400	250	2.4	21/5/2013
153	Purano Pokhari (Musailiko Pokhari)	26.855	85.534	81	Malangawa	7	3		350	300	3.96	21/5/2013
154	Adda Pokhari	26.619	86.188	57.08	Siraha	17	1.35	2	120	110	1.2	25/5/2013
155	Baban Tol Pokhari	26.635	86.301	79.19	Aurahi	5	1.5	2	170	140	2	25/4/2013
156	Beli Pokhari	26.708	86.454	111.87	Lahan	22	1.5	2	300	50	2	24/5/2013
157	Bishnupur Pokhari	26.732	86.263	125.81	Bishnupur	1	1	1.5	100	100	1.5	3/6/2013
158	Dewal Subba Pokhari	26.733	86.398	125.33	Dhangadhimai	3	1.6	2	130	105	1.5	3/6/2013
159	Kamal Daha	26.845	86.307	152.97	Mirchaiya	9	4.5	12.12	400	200	1	28/5/2013
160	Mahadev Pokhari	26.631	86.297	75.1	Aurahi	5	0.6777	1.49	120	80	2	25/5/2013
161	Manik Daha	26.774	86.453	169.31	Lahan	24	6	8	300	100	2	3/6/2013
162	Narahiya Pokhari	26.700	86.254	74.14	Siraha	10	12	13	400	300	3	27/4/2013

163	Naya Bandh	26.795	86.361	143.84	Dhangadhimai	8	1.3	2	170	40	1	3/6/2013
164	Patari Pokhari	26.671	86.396	73.66	Laxmipur Patari	4	1.35	4	130	100	1.5	23/5/2013
165	Purni Pokhari	26.629	86.192	59.72	Siraha	16	2	3	130	110	2	25/5/2013
166	Rajdevi Pokhari	26.633	86.299	69.82	Aurahi	5	1.5	2	170	90	2	25/5/2013
167	Chyaming Pukhu	27.673	85.439		Bhaktapur	9						
168	Jenla Pukhu	27.672	85.437	1338	Bhaktapur	7						
169	Salan Pukhu	27.674	85.434	1344	Bhaktapur	6						
170	Lamaga Pukhu	27.676	85.437	1345	Bhaktapur	10						
171	Bekha Pukhu	27.676	85.434	1347	Bhaktapur	6						
172	Kwathandau Pukhu	27.675	85.436	1346	Bhaktapur	6						
173	Yatu Bahare Pukhu	27.677	85.439	1342	Bhaktapur	10						
174	Gwanga Pukhu	27.677	85.435	1346	Bhaktapur	6						
175	Bhola Pukhu	27.675	85.432	1347	Bhaktapur	2						
176	Naag Pukhu	27.674	85.433	1346	Bhaktapur	6						
177	Ancha Pukhu	27.676	85.431	1329	Bhaktapur	2						
178	Khancha Pukhu	27.671	85.434	1330	Bhaktapur	5						
179	Nhad Pukhu	27.671	85.433	1321	Bhaktapur	5						
180	Chorcha Pukhu	27.674	85.433	1343	Bhaktapur	5						
181	Yalanchhe Byasi Pukhu	27.675	85.430	1333	Bhaktapur	2						
182	Byasi Pukhu	27.675	85.430	1334	Bhaktapur	2						
183	Iyaku Phukhu	27.670	85.429	1336	Bhaktapur	4						
184	Kumari Pukhu	27.670	85.431	1326	Bhaktapur	4						
185	Khyo Pukhu	27.674	85.430	1338	Bhaktapur	2						
186	Mangalache Pukhu	27.669	85.426	1327	Bhaktapur	3						
187	Bhanda Pukhu	27.673	85.429	1345	Bhaktapur	2						
188	Degamana Pukhu	27.670	85.426	1338	Bhaktapur	1						
					Bhaktapur							
					Bagmati							

189	Mangaltirtha Pukhu	27.671	85.428	1340	Bhaktapur	3					
190	Runche Pukhu	27.673	85.428	1344	Bhaktapur	2					
191	Indrayani Pukhu	27.673	85.426	1334	Bhaktapur	2					
192	Kaldaha Pukhu	27.675	85.425	1324	Bhaktapur	1					
193	Machaphong Pukhu	27.674	85.425	1331	Bhaktapur	1					
194	Tekhachon Pukhu	27.671	85.425	1334	Bhaktapur	1					
195	Na Pukhu	27.673	85.424	1343	Bhaktapur	1					
196	Ta Pukhu	27.672	85.421	1346	Bhaktapur	1					
197	Bhajuya Pukhu	27.671	85.421	1333	Bhaktapur	1					
198	Rani Pukhu	27.672	85.416	1341	Bhaktapur	1					
199	Nag Pokhari	27.673	85.429	1345	Bhaktapur	2					
200	Garud Kunda	27.674	85.438	1338	Bhaktapur	9					
201	Wamune Pokhari	27.676	85.386	1326	Madhyapur Thimi	4					
202	Barha Pokhari	27.683	85.386	1333	Madhyapur Thimi	7					
203	Kamal Pokhari	27.691	85.386	1343	Madhyapur Thimi	7					
204	Khasi Pokhari	27.692	85.390	1347	Madhyapur Thimi	8					
205	Pukusi	27.684	85.384	1340	Madhyapur Thimi	7					
206	Nhucchen Pokhari	27.691	85.389	1347	Madhyapur Thimi	7					
207	Lachi	27.691	85.388	1350	Madhyapur Thimi	7					
208	Bishnumati	27.687	85.381	1337	Madhyapur Thimi	7					
209	Khapala Pokhari	27.691	85.389	1346	Madhyapur Thimi	7					
210	Bishnu Kunda	27.677	85.384	1311	Madhyapur Thimi	2					
211	Vulankhel	27.680	85.387	1341	Madhyapur Thimi	5					
212	Wakha Pu (Shiva Pokhari)	27.678	85.387	1328	Madhyapur Thimi	4					
213	Balkumari (Kolakhu Pukhu)	27.676	85.385	1337	Madhyapur Thimi	2					
214	KumaLachi	27.684	85.386	1340	Madhyapur Thimi	7					

215	Dui Pokhari (Southern Side)	27.678	85.386	1342	Madhyapur Thimi	5							
216	Dui Pokhari (Northern Side)	27.678	85.386	1340	Madhyapur Thimi	5							
217	Swanga Pukhu	27.682	85.387	1339	Madhyapur Thimi	7							
218	Kyaku Pukhu	27.677	85.385	1329	Madhyapur Thimi	2							
219	Anjana Taal	27.622	84.274	162	Bharatpur	26	1	500	150	1.5	26/5/2013		
220	Beeshazari Taal	27.615	84.451	190	Bharatpur	8	100	262		6	26/5/2013		
221	Ghaila Taal	27.560	84.333	170	Bharatpur	23	1	200	50	1.5	26/5/2013		
222	Khageri Dam	27.633	84.489	195	Ratnanagar	9	1.5	262	150	2	20/5/2013		
223	Rani Pokhari	27.633	84.333	180	Bharatpur	19	2.5	430	430	2	24/5/2013		
224	Rhino Taal	27.666	84.473	210	Bharatpur	12	3	300	100	1.5	23/4/2013		
225	Shiva Pokhari	27.710	85.946	2600	Bhimeshwar	9	2	15	200	9	5/6/2013		
226	Simpani Pokhari	27.672	86.047	2050	Bhimeshwar	3	0.5	15	100	2.5	6/6/2013		
227	Thuli Pokhari	27.634	86.143	1680	Baiteshwar	4	0.5	10	100	1.5	8/6/2013		
228	Hiti Pokhari	27.713	85.319	1311	Kathmandu	1							
229	Balaju Baishdhara	27.734	85.301	1320	Kathmandu	16							
230	Pokhari	27.740	85.303	1312	Kathmandu	16							
231	Machha Pokhari	27.736	85.304	1311	Kathmandu	1							
232	Bhikkel Pokhari	27.714	85.294	1317	Kathmandu	15							
233	Museu Marga	27.704	85.295	1315	Kathmandu	13							
234	Pokhari	27.715	85.293	1336	Kathmandu	15							
235	Rani Pokhari	27.708	85.316	1307	Kathmandu	27							
236	Pokhari	27.708	85.319	1304	Kathmandu	28							
237	Kamal Pokhari	27.711	85.325	1307	Kathmandu	1							
238	Naag Pokhari	27.714	85.324	1314	Kathmandu	1							
239	Gahana Pokhari	27.717	85.333	1322	Kathmandu	5							
240	Pokhari	27.693	85.324	1303	Kathmandu	11							
241	Ikha Pokhari	27.700	85.293	1303	Kathmandu	13							

242	Buddhasthan Pokhari	27.687	85.266	1372	Chandragiri	14						
243	Buddha Pokhari	27.691	85.245	1376	Chandragiri	12						
244	Lachhi Pokhari	27.686	85.238	1415	Chandragiri	5						
245	Sano Pukhu	27.686	85.239	1413	Chandragiri	5						
246	Matsyanarayan Kunda	27.667	85.249	1471	Chandragiri	9						
247	Matsyanarayan Kunda II	27.667	85.249	1471	Chandragiri	9						
248	Kamal Pokhari	27.683	85.263	1346	Chandragiri	15						
249	Pau Pokhari	27.683	85.249	1379	Chandragiri	11						
250	Thakhel chaur Pokhari	27.679	85.234	1490	Chandragiri	6						
251	Matatirtha Kunda	27.679	85.231	1499	Chandragiri	6						
252	Mahadev Kunda	27.680	85.232	1477	Chandragiri	6						
253	Sano Pukhu	27.680	85.250	1385	Chandragiri	10						
254	Santoshi Mata pokhari	27.682	85.262	1341	Chandragiri	11						
255	Tribhuban Pokhari I	27.690	85.222	1444	Chandragiri	4						
256	Tribhuban Pokhari II	27.690	85.221	1453	Chandragiri	4						
257	Laxmi Chha	27.693	85.213	1512	Chandragiri	3						
258	Tribhuban Park III	27.689	85.220	1463	Chandragiri	4						
259	Silafal pukhu	27.692	85.218	1484	Chandragiri	4						
260	Mavi Pukhu	27.683	85.277	1336	Kirtipur	2						
261	Lava Pukhu	27.684	85.276	1322	Kirtipur	2						
262	Bhin phuku	27.684	85.276	1326	Kirtipur	2						
263	Devdhoka pokhari	27.688	85.275	1298	Kirtipur	15						
264	Thala Pukhu	27.686	85.278	1310	Kirtipur	2						
265	Dev Pukhu	27.685	85.278	1336	Kirtipur	2						

266	Devidhoka Pukhu	27.682	85.274	1394	Kirtipur	3				
267	Taudaha	27.650	85.282	1289	Kirtipur	6				
268	Aakha Pokhari I	27.651	85.285	1297	Kirtipur	6				
269	Pale Pukhu	27.680	85.277	1367	Kirtipur	3				
270	Pale Pukhu	27.680	85.279	1354	Kirtipur	1				
271	Dathal tole Pukhu	27.669	85.276	1377	Kirtipur	5				
272	Kamal Pokhari	27.655	85.274	1331	Kirtipur	6				
273	Kwara Pukhu	27.652	85.277	1323	Kirtipur	1				
274	Kalas Pokhari	27.734	85.464	1391	Shankharapur	8				
275	Mahadev Pokhari	27.737	85.467	1414	Shankharapur	8				
276	Phukhulachi	27.736	85.464	1400	Shankharapur	8				
277	Kamal pokhari	27.737	85.466	1417	Shankharapur	8				
278	Sanagaon phuku	27.745	85.449	1408	Shankharapur	9				
279	Sanagaon phuku II	27.743	85.448	1384	Shankharapur	9				
280	Ganeshman Pokhari	27.768	85.330	1375	Tokha	3				
281	Mahadev Pokhari	27.783	85.331	1385	Tokha	2				
282	Narayan Pokhari	27.782	85.331	1373	Tokha	2				
283	Sapan Tirtha	27.776	85.330	1344	Tokha	2				
284	Sapan Kunda 1	27.776	85.330	1349	Tokha	2				
285	Chandeshwori Kunda	27.777	85.339	1400	Tokha	2				
286	Paleswan Pukhu	27.676	85.318	1321	Lalitpur	3				
287	La (Sitanga) Pukhu	27.676	85.316	1334	Lalitpur	3				
288	Tyagal Pukhu	27.669	85.331	1314	Lalitpur	17				
289	Guita Pukhu	27.671	85.332	1318	Lalitpur	8				
290	Balkumari North	27.673	85.336	1296	Lalitpur	8				
291	Balkumari West	27.672	85.336	1298	Lalitpur	8				



292	Bhailagaa: Pukhu	27.668	85.327	1327	Lalitpur	12					
293	Luksi Pukhu	27.668	85.328	1325	Lalitpur	6					
294	Prayag Pokhari	27.669	85.325	1331	Lalitpur	19					
295	Kumbheshwor Pukhu	27.677	85.326	1317	Lalitpur	16					
296	Chyasal Pukhu B	27.675	85.329	1311	Lalitpur	12					
297	Khapinchhe Pukhu	27.673	85.328	1326	Lalitpur	12					
298	Kutisaugal Pukhu	27.672	85.327	1322	Lalitpur	12					
299	Capah Pukhu	27.671	85.329	1322	Lalitpur	12					
300	Bhandarkhal Pukhu	27.673	85.326	1324	Lalitpur	16					
301	Purnachandi Pukhu	27.674	85.321	1327	Lalitpur	20					
302	Pimbaha Pukhu	27.676	85.321	1326	Lalitpur	3					
303	Ta Pukhu	27.671	85.320	1325	Lalitpur	5					
304	Saptapatal Pukhu	27.666	85.324	1330	Lalitpur	5					
305	Eulakhyo Pukhu	27.678	85.308	1318	Lalitpur	3					
306	Lagankhel Pukhu 1	27.664	85.324	1327	Lalitpur	15					
307	Lagankhel Pukhu 2	27.665	85.323	1325	Lalitpur	5					
308	Lagankhel Pukhu 3	27.665	85.323	1327	Lalitpur	5					
309	Nhu Pukhu	27.667	85.322	1327	Lalitpur	5					
310	Jywalakhel Pukhu	27.674	85.311	1327	Lalitpur	4					
311	Buddha Pokhari	27.631	85.318	1402	Lalitpur	27					
312	Ganga pokhari (Dhokapini)	27.630	85.304	1350	Lalitpur	22					
313	Jamuna Pokhari (Bhunn)	27.631	85.304	1350	Lalitpur	22					
314	De Pokhari	27.630	85.303	1352	Lalitpur	22					
315	Na Pokhari	27.628	85.303	1361	Lalitpur	22					

316	Po Pokhari	27.628	85.303	1363	Lalitpur	22			
317	Khaincha Pokhari	27.618	85.298	1355	Lalitpur	22			
318	Dhokasi	27.636	85.296	1321	Lalitpur	21			
319	De Pokhari	27.636	85.298	1343	Lalitpur	21			
320	Kha pukhu (Pokhari)	27.636	85.301	1342	Lalitpur	21			
321	Palo Pokhari	27.636	85.301	1340	Lalitpur	21			
322	Kutupukhu	27.636	85.297	1332	Lalitpur	21			
323	Ghaa Pukhu	27.636	85.299	1341	Lalitpur	21			
324	Khaicha Pokhari	27.636	85.341	1355	Lalitpur	28			
325	Pukushi Pokhari	27.636	85.340	1356	Lalitpur	28			
326	Lankha Pokhari	27.635	85.341	1351	Lalitpur	28			
327	Nagdaha	27.626	85.333	1388	Lalitpur	24			
328	Dya Pukhu	27.637	85.341	1356	Lalitpur	28			
329	Khaicha Pokhari 2	27.618	85.299	1354	Lalitpur	22			
330	Phonga Pokhari	27.635	85.302	1341	Lalitpur	21			
331	Krishna Dey Pukhu	27.638	85.341	1351	Lalitpur	28			
332	Deykheba Pokhari	27.633	85.318	1402	Lalitpur	27			
333	Dhaliko Pokhari	27.638	85.341	1350	Lalitpur	28			
334	Mahadev Mandir Pokhari	27.633	85.318	1404	Lalitpur	27			
335	Tarpa Pukhu	27.636	85.294	1286	Lalitpur	21			
336	Iku phuku	27.609	85.326	1460	Godawari	11			
337	Jhyali Phuku	27.613	85.324	1453	Godawari	12			
338	Mava Phuku	27.619	85.322	1441	Godawari	12			
339	Pronga Phuku	27.620	85.321	1439	Godawari	12			
340	Hymane	27.619	85.321	1440	Godawari	12			
341	Songu Phuku	27.619	85.321	1440	Godawari	12			
342	Phunga Phuku	27.621	85.321	1438	Godawari	12			

343	Buddha Pokhari	27.618	85.322	1438	Godawari	12				
344	Thecho Pokhari	27.619	85.324	1436	Godawari	12				
345	Khalcha Phuku	27.618	85.322	1439	Godawari	12				
346	Jyoti Bihar Phuku	27.611	85.325	1455	Godawari	12				
347	Jhiru Bari pokhari	27.605	85.333	1423	Godawari	13				
348	Pyangaon Phuku I	27.604	85.326	1474	Godawari	11				
349	Pyangaon Phuku II	27.604	85.328	1480	Godawari	11				
350	Pauli Pokhari	27.607	85.326	1460	Godawari	11				
351	Godawari Kunda	27.598	85.387	1537	Godawari	2				
352	Bande Gaun Pukhu I	27.618	85.352	1416	Godawari	14				
353	Bande Gaun Pukhu II	27.618	85.351	1414	Godawari	14				
354	Kamal Pokhari	27.625	85.348	1378	Godawari	14				
355	Pailan Pokhari	27.618	85.352	1414	Godawari	14				
356	Naudhara Kunda	27.588	85.379	1583	Godawari	3				
357	Panch Dhara Pokhari I	27.598	85.387	1537	Godawari	2				
358	Panch Dhara Pokhari II	27.598	85.386	1529	Godawari	2				
359	Phunga Pokhari	27.621	85.350	1389	Godawari	14				
360	Pukhu Near Police Sector	27.618	85.353	1417	Godawari	14				
361	Lanka Pukhu	27.618	85.353	1418	Godawari	14				
362	Kumar sahu Pukhu	27.602	85.323	1475	Godawari	11				
363	Barkha Pukhu	27.603	85.325	1472	Godawari	11				
364	Jhochhe Pukhu	27.606	85.327	1461	Godawari	11				
365	Tallo lachhi Pukhu	27.614	85.318	1460	Godawari	12				
366	Bhairabeswor Pokhari	27.614	85.319	1460	Godawari	12				

367	Pingle Pukhu	27.611	85.319	1460	Godawari	12							
368	Satyapokhari	27.648	85.358	1336	Mahalaxmi	6							
369	Santi Pukhu	27.648	85.355	1333	Mahalaxmi	6							
370	Nehu pukhu	27.647	85.356	1340	Mahalaxmi	6							
371	Kamal Pokhari	27.656	85.349	1322	Mahalaxmi	4							
372	Priya Pukhu	27.648	85.356	1340	Mahalaxmi	6							
373	Boje Pokhari	27.664	85.349	1298	Mahalaxmi	3							
374	Machhapokhari I	27.631	85.391	1418	Mahalaxmi	9							
375	Machhapokhari II	27.631	85.391	1421	Mahalaxmi	9							
376	Inbal Pukhu	27.647	85.370	1332	Mahalaxmi	8							
377	Bagaicha Pokhari	27.643	85.374	1347	Mahalaxmi	8							
378	Bagaicha pokhari II	27.643	85.374	1348	Mahalaxmi	8							
379	Mahadev Pokhari	27.643	85.374	1347	Mahalaxmi	8							
380	Khasi Pokhari	27.644	85.356	1337	Mahalaxmi	6							
381	Sano pokhari	27.621	85.362	1404	Godawari	1							
382	Thaiba Pukhu	27.642	85.371	1338	Mahalaxmi	8							
383	Kulekhani Reservoir (Indra Sarobar)	27.589	85.155	1500	Indrasarowar	1	220	15600	4217	312			15/6/2013
384	Sejar Kunda	27.997	85.374	1802	Langtang National Park		0.6		118	71			10/6/2013
385	Pokhari Dada	27.478	86.041	1802	Manthali	14	0.1		38	23			25/6/2013
386	Kund	27.175	85.613	230	Hariharpurgadhi	7	2	10 to 12	200	150	2		11/6/2013
387	Pancha Kanya	27.249	85.761	315	Marin	5	1.5	5 to 8	150	60	1		23/5/2013

388	Raitaneshwori Pokhari	27.931	85.658	1750	Panchpokhari Thangpal	4	1.2	35	150	80	3.6										19/5/2013
389	Barah Tal-I	28.248	83.604	1378	Baglung	10	0.28	4	60	60	3										15/3/2015
390	Barah Tal-II	28.410	83.160	2661	Taman Khola	6	0.4	5	100	40	2										15/3/2015
391	Gaja Tal	28.194	83.513	2455	Jaimuni	1	0.52	4.34	80	60	3										15/3/2015
392	Rudra Tal	28.456	83.054	2785	Dhorpatan	9	0.08	4	27.5	20.5	2										15/3/2015
393	Ghunchok Pokhari	28.118	84.703	1316	Barpak Sulikot	4	1.25	20	130	110	2.5										18/2/2014
394	Tal Pokhari	28.033	84.469	502	Palungtar	5	1.25	12	250	50	2										19/2/2014
395	Thulo Pokhari	28.046	84.697	967	Bhimsestha	1	0.5	2	40	30	1.5										17/2/2014
396	Aalaiche Pokhari	28.203	84.151	1024	Madi	12	0.5	20	50	40	1										4/3/2014
397	Bage Pokhari	28.183	84.167	1278	Rupa	7	1	20	80	60	2										4/3/2014
398	Barna Pokhari	28.152	84.149	1233	Rupa	6	1	10	50	25	2										3/3/2014
399	Begnas Tal	28.151	84.803	685	Pokhara	4	327	2000	2300	1000	6.6										4/3/2014
400	Dipang Tal	28.178	84.060	700	Pokhara	27	6	193	325	250	1.5										4/3/2014
401	Gunde Tal	28.188	84.038	750	Pokhara	26	8.3	74	500	250	1										4/3/2014
402	Kamal pokhari	28.217	84.010	850	Pokhara	11	2	133	175	60	1.5										4/3/2014
403	Khaste Tal	28.191	84.044	750	Pokhara	26	9	319	500	200	1.5										4/3/2014
404	Maidi Tal	28.175	84.079	700	Pokhara	30	1	122	125	80	1										4/3/2014
405	Naya Pokhari	28.185	84.172	1187	Rupa	7	0.6	7	90	40	0.5										4/3/2014
406	Neureni Tal	28.189	84.046	770	Pokhara	26	2	43	200	150	0.5										4/3/2014
407	Phewa Tal	28.208	83.955	800	Pokhara	6	451	12000	3000	2000	8										4/3/2014
408	Rani Pokhari	28.241	84.155	1340	Madi	10	1	30	90	40	1										7/3/2015
409	Rupa Tal	28.134	84.100	1285	Pokhara	32	107	2722	2300	300	3										15/3/2015
410	Sani Pokhari	28.219	83.812	2067	Pokhara	4	0.5	6	70	40	0.5										15/3/2015
411	Siddhi Pokhari	28.261	83.854	2067	Pokhara	23	0.5	6	100	40	1.5										6/3/2015
412	Thulo Pokhari	28.150	84.158	1236	Rupa	6	1	4	70	45	1.5										3/3/2015
413	Damrang pokhari	28.227	84.494	1900	Dordi	6	1	20	110	60	1										21/2/2014

414	Deurali Sano Pokhari	28.178	84.568	2050	Dudhpokhari	4	0.4	25	80	40	1	22/2/2014
415	Deurali Thulo Pokhari	28.178	84.571	2050	Dudhpokhari	4	1	10	80	40	1.5	22/2/2015
416	ilam Pokhari	28.189	84.558	2157	Dudhpokhari	5	1.5	20	120	40	2.5	22/2/2016
417	Murunje Pokhari	28.237	84.287	1289	Kwholasothar	2	0.3	12	90	80	1	24/2/2014
418	siddi Pokhari	28.254	84.358	1085	Besishahar	6	0.5	20	60	20	1.5	20/2/2014
419	Tinghare Thulo Pokhari	28.165	84.301	1182	Madhya Nepal	10	1	10	100	40	1.5	25/2/2014
420	Ulgera Pokhari	28.218	84.604	2152	Dudhpokhari	2	1	16	40	30	1.5	23/2/2014
421	Dhumba lake	28.763	83.716	2889	Gharapjhong	5	1.13	10	110	90	2.5	15/3/2015
422	Titi lake	28.652	83.619	2679	Thasang	5	8.29	92	360	240	4	15/3/2015
423	Gai Kharke	28.447	83.338	2139	Malika	5	0.2	5	50	40	2	15/3/2015
424	Pittal Kharke	28.433	83.277	2903	Malika	4	0.2	2	50	40	2	15/3/2015
425	Gaida Tal	27.653	84.210	143	Devchuli	3	2.5	55	300	40	1	21/2/2014
426	Sanishare	27.656	84.214	159	Devchuli	3	1.5	40	145	80	2	21/2/2014
427	Patle Kharika Pokhari	28.073	83.620	1948	Mahashila	1	0.5	15	40	30	2	21/2/2014
428	Sani Pokhari	28.412	83.750	1495	Annapurna	11	0.5	12	80	60	1.5	21/2/2014
429	Thulo Pokhari	28.244	83.748	1609	Modi	7	1	5	110	60	1.5	21/2/2014
430	Marshyangdi Reservoir	27.926	83.497	600	Aabu Khaireni	3	60	3000	4000	150	10	21/2/2014
431	Sengleng Daha	27.909	83.075	1823	Bhumekasthan	10	0.5	20	60	50	1.5	15/4/2015
432	Thada Daha	27.862	83.097	1320	Sitganga	3	2.4	70	250	100	1.5	15/4/2015

433	Bankatta Tal	28.069	81.702	142	Duduwa	5	20	100	1500	600	3	15/3/2015
434	Phulyangra Tal	29.001	82.077	148	Nepalgunj	7	50	100	1000	500	1	15/3/2015
435	Puraina Puraini tal	28.625	81.635	147	Nepalgunj	6	4	22	1500	1000	3	15/3/2015
436	Rani talau	28.056	81.626	149	Nepalgunj	8	0.5	20	58	56	4	15/3/2015
437	Teeri Tal	28.121	81.572	149	Khajura	3	25	100	100	60	2	15/3/2015
438	Water park	28.134	82.058	129	Nepalgunj	4	10	20	150	70	4	15/3/2015
439	Badaiya Tal	28.196	81.518	143	Badhaiyatal	5	61	120	2000	1000	8	15/3/2015
440	Gonana Tal	28.718	81.169	142	Lamkichuha	6	5	120	100	30	2	15/3/2015
441	Tara Tal	28.468	81.401	152	Bardiya National Park		1	5	50	40	2	15/4/2015
442	Barhakune Tal	28.074	82.486	739	Ghorahi	13	1	45	80	70	3	15/4/2015
443	Bhote Tal	27.998	82.556	791	Ghorahi	1	1.06	40	200	50	3	15/4/2015
444	Charinge Daha	27.993	82.561	785	Ghorahi	1	1.42	30	250	100	3	15/4/2015
445	Gauri Tal	28.101	82.267	607	Tulsipur	13	6.5	70	400	130	2	15/4/2015
446	Jakhara Tal	27.873	82.574	265	Lamahi	5	7	150	300	140	3	15/4/2015
447	Laraina Tal	28.047	82.379	595	Ghorahi	8	2.1	68	500	50	6	15/4/2015
448	Pathkauli Tal	28.063	82.316	593	Tulsipur	16	0.5	50	150	30	5	15/4/2015
449	Rihar Tal	27.908	82.335	228	Lamahi	9	1	15	150	50	2	15/4/2015
450	Ajigare tal	27.516	82.875	99	Krishnanagar	7	6	200	500	300	1.2	15/4/2015
451	Badka Tal	27.630	82.769	125	Bijayanagar	6	7	60	370	180	1.5	15/4/2015
452	Baghaiyal Tal	27.564	82.953	104	Maharajgunj	1	4	200	250	250	1.5	15/4/2015
453	Bajah Sagar	27.455	83.080	93	Mayadevi	4	320	500	2000	1600	2	15/4/2015
454	Barkalpur Tal	27.672	82.964	122	Buddhabhumi	9	3.5	500	400	180	1.5	15/4/2015
455	Gobari Pokhari	27.582	83.074	111	Kapilbastu	6	2	30	200	100	1.3	15/4/2015
456	Hariharpur taal	27.645	82.970	110	Buddhabhumi	8	20	3000	750	250	1	15/4/2015
457	Jagadishpur Reservoir	27.621	83.101	110	Kapilbastu	9	157	200	1350	1280	3	15/4/2015
458	Jam kudwa	27.649	82.776	135	Bijayanagar	2	2	25	250	70	1	15/4/2015
459	Kadja Tal	27.624	82.766	122	Bijayanagar	6	3	50	400	50	1	15/4/2015
460	Laharaula Tal	27.571	82.869	111	Shivraj	7	5	440	212	200	1	15/4/2015
461	Mahali Tal	27.453	83.025	91	Yashodhara	5	60	1600	990	940	0.8	15/4/2015

462	Murdahawa Tal	27.640	82.774	132	Bijayanagar	2	3	30	250	100	1.2	15/4/2015
463	Naukhane Tal	27.557	83.004	105	Buddhabhumi	10	4	110	300	40	1.2	15/4/2015
464	Naukhane Tal	27.546	82.998	101	Kapilbastu	12	1.5	55	200	75	1.2	15/4/2015
465	Niglihawa Tal	27.595	83.097	108	Kapilbastu	6	3.5	42	280	125	0.75	15/4/2015
466	Puraina Tal	27.648	82.768	131	Bijayanagar	2	3	40	200	100	1	15/4/2015
467	Rajauriya Tal	27.535	82.811	102	Krishnanagar	10	12	40	300	200	1.2	15/4/2015
468	Sagar Tal	27.540	83.057	106	Kapilbastu	2	3.8	40	800	50	1.3	15/4/2015
469	Sagarhawa Tal	27.613	83.089	111	Kapilbastu	9	2.5	40	320	75	1.5	15/4/2015
470	Shakuniya Tal	27.612	82.936	111	Buddhabhumi	7	55	500	800	700	1.5	15/4/2015
471	Shankarpur Tal	27.647	82.807	130	Bijayanagar	2	13	170	500	300	1	15/4/2015
472	Sirihawa Tal	27.506	82.769	101	Krishnanagar	4	2	40	300	90	1.5	15/4/2015
473	Sisawa Tal	27.456	83.135	94	Mayadevi	4	17	300	2700	816	4	15/4/2015
474	Amar Pokhari	27.599	83.701	135	Sunwal	11	1	5	95	80	2	21/2/2014
475	Bauliya	27.471	83.682	79	Palhi Nandan	3	0.5	3	40	30	1.5	21/2/2014
476	Buddha Mangal Tal	27.508	83.769	100	Bardaghat	12	2	5	150	130	3.5	21/2/2014
477	Devdaha Pokhari	27.612	83.581	111	Sunwal	7	1	9	120	90	1.5	21/2/2014
478	Dhanewa Pokhari	27.482	83.758	89	Bardaghat	13	1	10	90	65	1.5	21/2/2014
479	Hadahiya Tal	27.582	83.618	105	Sunwal	10	1.3	6	120	110	1	21/2/2014
480	Java Pokhari	27.544	83.714	92	Sarawal	2	1.5	20	150	100	2	21/2/2014
481	Kamal Pokhari	27.550	83.726	103	Sarawal	2	1	5	100	80	2.5	21/2/2014
482	Loharauli Pokhari	27.488	83.670	98	Palhi Nandan	4	1.5	20	120	120	1.5	21/2/2014
483	Panai Pokhari	27.484	83.777	96	Bardaghat	13	1.5	3	125	125	1.5	21/2/2014
484	Pokhara (Jeetpur)	27.515	83.661	98	Ramgram	9	2	10	225	85	1.5	21/2/2014
485	Pokhara (Kushma)	27.466	83.687	94	Palhi Nandan	3	1	10	100	90	1.5	21/2/2014
486	Pokhara (Patkauli)	27.556	83.731	107	Sarawal	2	1	10	100	100	0.5	21/2/2014
487	Pokhari (Pali)	27.472	83.666	84	Palhi Nandan	4	1.7	7	150	125	1.5	21/2/2014
488	Pokhari (Devgaun)	27.507	83.702	88	Ramgram	17	0.5	10	100	60	1	21/2/2014

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489	Pokhari Tal (Mahuwari)	27.484	83.707	88	Ramgram	17	0.5	15	110	55	1.5	21/2/2014
490	Purnahawa Pokhari	27.505	83.697	102	Ramgram	17	1.5	20	160	80	1	21/2/2014
491	Sagada Pokhari	27.508	83.659	89	Ramgram	9	1	15	125	75	1	21/2/2014
492	Sisani Pokhari	27.477	83.768	88	Pratappur	1	1	10	100	100	1.5	21/2/2014
493	Swathi Pokhari	27.567	83.653	122	Sunwal	9	0.5	15	95	65	2	21/2/2014
494	Thulo Pokhari	27.530	83.754	108	Sarawal	3	1	15	110	95	2	21/2/2014
495	Kamal Pokhari	27.842	83.543	855	Tansen	7	2	50	165	105	2	15/2/2015
496	Satyawati Tal	27.802	83.267	972	Rainadevi Chhahara	8	0.5	200	70	60	4	15/2/2015
497	Bhingri Daha	28.146	82.707	720	Sworgadwary	3	0.3	10	50	40	1	15/3/2015
498	Tiram Daha	27.990	82.768	1216	Sarumarani	6	0.8	25	95	50	1.5	15/3/2015
499	Biwang Daha	28.406	82.889	2351	Sunchhahari	2	2	900	260	105	2	15/3/2015
500	Kamal Tal	28.614	82.626	1577	Sisne	5	0.5	1050	580	180	5	15/3/2015
501	Serpu Daha	28.696	83.485	1310	Dhaulagiri	4	70	4338	1290	665	10	15/4/2015
502	Badki Gaddha Pokhari	27.367	83.283	92	Sammarimai	6	1.5	15	358	55	1	15/2/2014
503	Bangai Pokhari	27.372	83.269	94	Sammarimai	2	2	20	96	94	2	15/2/2014
504	Bhanaiya	27.430	83.340	97	Kotahimai	7	1.5	25	255	125	1.5	15/2/2014
505	Bhelai Pokhari	27.520	83.520	99	Omsatiya	5	1.5	15	150	100	1.5	15/2/2014
506	Dube Pokhari	27.422	83.359	96	Kotahimai	7	0.5	10	105	55	1.5	15/2/2014
507	Gaidahawa	27.595	83.281	112	Gaidahawa	4	25	500	1200	200	2	15/3/2014
508	Gajedi Tal	27.663	83.276	125	Kanchan	1	4	100	270	170	2	15/3/2014
509	Ganwariya Tal	27.526	83.265	85	Lumbini Sanskritik	11	0.5	8	85	75	2	15/3/2014
510	Gidhiya Pokhari	27.546	83.286	92	Gaidahawa	5	1	4	105	95	2	15/3/2014
511	Jamuhani Pokhari-I	27.532	83.571	91	Omsatiya	6	1	8	100	65	1	15/3/2014

512	Jamuhani Pokhari -II	27.537	83.574	92	Omsatiya	6	0.5	7	70	60	0.5	15/3/2014	
513	karauta Pokhari	27.353	83.278	92	Sammarimai	2	1	8	110	95	2	15/2/2014	
514	Kurmindhawa	27.549	83.290	96	Gaidahawa	5	0.3	7	60	40	1	15/3/2014	
515	Kuttwa Pokhari	27.549	83.323	75	Gaidahawa	1	0.5	5	60	40	2	15/3/2014	
516	Majhagawa Pokhari	27.445	83.354	94	Kotahimai	5	1	5	70	60	1	15/2/2014	
517	Mohamadnagar Pokhari	27.490	83.243	85	Lumbini Sanskritik	5	0.5	8	100	45	1	15/3/2014	
518	Nala Pokhari	27.421	83.308	96	Sammarimai	7	1.25	8	250	50	1	15/2/2014	
519	Paschim Pokhara	27.486	83.259	75	Lumbini Sanskritik	6	1	10	100	80	1.5	15/2/2014	
520	Pipari Pokhari	27.358	83.288	93	Sammarimai	1	0.5	3	70	65	1.5	15/2/2014	
521	Purba Pokhara	27.487	83.265	83	Lumbini Sanskritik	6	1	13	90	80	0.5	15/3/2014	
522	Rayapur Tal	27.357	83.337	87	Marchawari	1	2.5	20	225	185	1	15/2/2014	
523	Rohinihawa Tal	27.388	83.310	94	Sammarimai	6	1	4	90	80	1	15/2/2014	
524	Sagrahawa Tal	27.561	83.299	101	Gaidahawa	3	1	5.5	120	80	2	15/3/2014	
525	Shankarpur Pokhari	27.562	83.573	100	Devdaha	11	1	5	85	80	1	15/3/2014	
526	Sisusemara Tal	27.357	83.352	87	Marchawari	2	1	20	150	60	1	15/2/2014	
527	Tareni Pokhari	27.532	83.533	96	Omsatiya	5	1	4	100	80	1	15/3/2014	
528	Tiger Top Tal	27.506	83.275	79	Lumbini Sanskritik	5	1	6	100	100	2	15/3/2014	
529	Tiwari Kataiya Pokhari	27.417	83.351	96	Kotahimai	7	1	6	135	105	2	15/2/2014	
530	Thulo pokhara	27.535	83.285	88	Lumbini Sanskritik	7	1	4	105	95	2	15/3/2014	
531	Yekladih Pokhari	27.507	83.288	79	Lumbini Sanskritik	7	0.5	7	75	65	3	15/3/2014	
532	Bada Pokhari	28.843	81.578	1860	Dullu	2	2	10	350	50	1.5	15/3/2015	
533	Khal Tal	28.969	81.796	2140	Naumule	2	1	10	150	50	1.5	15/3/2015	
534	Tal Pokhari	28.736	81.649	1596	Gurans	4	0.5	2	60	40	0.1	15/3/2015	
535	Panipokhari	29.305	82.182	2480	Chandannath	3	0.2	1.5	56.3	40	5	15/3/2015	
				Karnali									
				Daikekh									
				Jumla									

536		Rara tal(Mahendra Daha)	29.526	82.090	2990	Chhayath Rara	9	1061	12050	5100	2700	165	15/4/2014
537		Kubinde Daha	28.415	82.058	1150	Bangad Kupinde	8	25	1200	1250	250	48	15/4/2014
538		Bulbule Tal	28.588	81.613	730	Birendranagar	3	0.7	100	200	50	3	15/3/2015
539		Kamal Tal	28.614	82.626	1577	Sisne	5	5	1050	580	180	5	15/4/2015
540		Batula Tal	29.229	81.466	2406	Ramaroshan	5	3.2	249.8	130	90	8	18/5/2016
541		Geraya Bonda	29.222	81.428	1541	Ramaroshan	5	2.2	238.6	80	40	4	31/5/2016
542		Jingale Tal	29.232	81.468	2406	Ramaroshan	5	1.1	118.5	300	75	12	19/5/2016
543		Lamadaya Tal	29.238	81.482	2522	Ramaroshan	5	2.1.5	249.8	100	40	6	19/5/2016
544		Lisedali Tal	29.235	81.480	2516	Ramaroshan	5	2.6	118.5	50	40	5	18/5/2016
545		Mathillo Dhaune Tal	29.231	81.461	2316	Ramaroshan	5	1.63	535	50	30	3.6	18/5/2016
546		Tallo Dhaune Tal	29.229	81.457	2299	Ramaroshan	5	0.55	531	60	30	3	18/5/2016
547		Patal Bhumeshor Tal	29.141	80.468	2125	Alital	3	0.51	1.2	80	30	3	25/5/2016
548		Dau Tal	29.637	81.095	2233	Surma	4	1.6	193.6	200	100	5	25/5/2016
549		Chhede Daha	29.416	81.312	2159	Khaptad Chhededaha	4	1.1	7.8	70	50	4.2	24/5/2016
550		Dhalpuri	29.361	81.408	2528	Tribeni	7	1.8	36.6	100	40	1.2	25/5/2016
551		Ali Tal	29.101	80.489	780	Alital	8	7	72.8	500	350	50	31/5/2016

552	Chhatiwani Tal	29.079	80.586	1188	Jorayal	2	1.9	66.7	80	55	7.5	3/6/2016
553	Rangeni Tal	29.084	80.563	1338	Jorayal	2	0.5	8.2	60	40	3.6	2/6/2016
554	Ajuwa Lake	28.694	80.955	166	Ghodaghodi	1	4.1	9648.4	100	100	1	22/5/2016
555	Baba Lake	28.718	80.966	184	Ghodaghodi	8	2.6	9648.4	500	200	2	22/5/2016
556	Bahuliya Tal	28.578	80.727	143	Dhangadhi	19	12	90	900	40	1.5	22/5/2016
557	Badka Lake	28.727	80.773	182	Gauriganga	4	3.6	48.1	500	200	2	22/5/2016
558	Bhairbuwa Lake	28.605	80.904	151	Ghodaghodi	12	19.8	260	600	200	4	22/5/2016
559	Bhaiswa Lake	28.705	80.957	165	Ghodaghodi	8	7	9648.4	500	200	4	22/5/2016
560	Budi Nakror	28.710	80.965	175	Ghodaghodi	8	0.9	9648.4	100	50	4	3/6/2016
561	Chamraiya Tal	28.667	80.828	161	Gauriganga	11	14.9	321.2	800	300	2.5	3/6/2016
562	Chhaya Tal	28.722	80.619	175	Dhangadhi	6	1.4815	250	90	70	1.5	3/6/2016
563	Charra Lake	28.496	80.918	150	Bhajani	9	3.3	101.2	130	70	3	3/6/2016
564	Chiriya Lake	28.720	80.971	183	Ghodaghodi	8	2.5	9648.4	500	200	4	3/6/2016
565	Dubri Lake	28.666	80.797	154	Kailari	9	1.8	96.2	100	60	2.5	3/6/2016
566	Dudhawa Tal	28.451	80.980	137	Bhajani	5	4.41	80	250	40	1	8/7/2016
567	Faurahawa Lake	28.518	80.887	150	Kailari	7	1	23.4	70	50	2	8/7/2016
568	Gaichkatuwa Lake	28.714	80.966	177	Ghodaghodi	8	5.4	9648.4	200	80	4	8/7/2016
569	Ghod Lake	28.584	80.909	155	Bhajani	9	36	382.5	200	130	8.5	8/7/2016
570	Ghodaghodi Lake	28.688	80.797	154	Kailari	9	78.1	9648.4	200	130	8.5	8/7/2016
571	Ghodchittiya Lake	28.727	80.772	178	Gauriganga	4	0.9	48.1	150	80	3	8/7/2016
572	Gurduhawa Lake	28.454	80.954	131	Bhajani	5	2.8	50.4	700	150	4	22/6/2016
573	Guldrahawa Tal	28.530	80.800	135	Kailari	5	4.1	60	80	50	1.5	22/6/2016
574	Jakhor Lake	28.706	80.622	165	Dhangadhi	7	13.4	314.1	300	150	4	22/6/2016
575	Jogniya Lake	28.711	80.747	163	Gauriganga	1	8.8	63.8	300	140	3.5	22/6/2016
576	Kamalpokhari	28.592	80.781	148	Kailari	3	21	349.3	500	200	3	22/6/2016
577	Kohilai Lake	28.690	80.772	162	Kailari	9	60.4	350.2	900	300	5	22/6/2016
578	KorkoTala Lake	28.553	80.952	157	Bhajani	4	20.3	287.1	800	300	2.5	22/6/2016
579	Lami Lake	28.817	80.558	188	Godawari	2	7.3	209.5	200	100	4	22/6/2016

580	Laukabhauka Lake	28.588	80.945	153	Bhajani	4	46.1	583.2	800	300	2.5	3/6/2016
581	Lukli Lake	28.566	80.914	151	Bhajani	9	6.5	623.6	250	130	4.5	3/6/2016
582	Mahadev Lake	28.744	80.710	168	Dhangadhi	16	21.3	193.4	300	190	3.5	3/6/2016
583	Mohana Oxbow Lake	28.452	80.977	141	Bhajani	3	30	150	900	50	2	3/6/2016
584	Nami Tal	28.729	80.620	174	Dhangadhi	6	3	250	100	60	2	3/6/2016
585	Narkor	28.709	80.959	176	Ghodaghodi	8	26.6	9648.4	700	200	4	3/6/2016
586	Nardahuwa	28.548	80.842	152	Kailari	7	13.7	1022.8	310	150	3.5	3/6/2016
587	Nathuniya lake	28.545	80.856	151	Kailari	7	5.8	1022.8	170	90	3	3/6/2016
588	Paiparawa lake	28.444	80.977	129	Bhajani	5	40	190	600	40	3	8/7/2016
589	Puraina lake (a)	28.921	80.386	212	Shuklaphanta	9	13.1	1022.8	300	170	4	8/7/2016
590	Puraina lake (b)	28.583	80.722	148	Dhangadhi	19	1.7	100	90	50	2	8/7/2016
591	Raji tal	28.848	80.634	275	Godawari	4	1.3062	100	100	60	1.2	8/7/2016
592	Rara tal	28.733	80.772	174	Gauriganga	4	2.1	34	200	190	4	2/6/2016
593	Rupiya lake	28.573	80.915	152	Bhajani	9	6.7	623.6	400	120	4	2/6/2016
594	Sahadeva lake	28.747	80.715	166	Dhangadhi	16	9.4	193.4	300	190	3.5	2/6/2016
595	Sarkiniya	28.555	80.842	155	Kailari	7	9	1022.8	150	70	2	2/6/2016
596	Siddhababa	28.776	80.601	182	Dhangadhi	8	0.5661	30	50	50	1	5/7/2016
597	Soniya	28.569	80.911	152	Bhajani	9	24.1	623.6	700	350	3	5/7/2016
598	Sukhaiya	28.730	80.622	180	Dhangadhi	6	5.9	165.5	110	90	3	5/7/2016
599	Sunhara	28.534	80.798	137	Kailari	5	5	50	200	40	2	5/7/2016
600	Thongruwa	28.727	80.771	175	Gauriganga	4	0.6	48.1	100	80	2	5/7/2016
601	Ajayan Kunda	28.737	80.409	165	Laljhadi	2	1.9024	100	190	20	2	1/7/2016
602	Ajngar Tal	28.923	80.386	223	Shuklaphanta	8	0.7	11.4	150	65	5	1/7/2016
603	Banda Tal	28.657	80.358	154	Belauri	6	21	78.1	2000	1500	8.5	1/7/2016
604	Baiyanath Tal	28.864	80.424	190	Krishnapur	2	0.9936	20	80	40	1.5	1/7/2016
605	Bantaria	28.720	80.384	230	Belauri	5	6	60	200	60	1.5	1/7/2016
606	Betkot	29.024	80.904	151	Badikedar	4	5	35.5	200	150	5	1/7/2016
607	Copre	29.032	80.288	621	Bedkot	4	0.9335	90	90	50	1.5	28/6/2016

Kanchanpur

608	Gangla	28.699	80.404	162	Punarbass	1	1.9115	50	70	60	1.5	28/6/2016
609	Godbijula Tal	28.848	80.422	187	Krishnapur	2	8.8	96	500	100	3	28/6/2016
610	Jhimila Lake	29.068	80.188	668	Bhimdatta	9	4.3	40.2	700	130	9	28/6/2016
611	Jharan	28.866	80.422	194	Krishnapur	2	0.6328	15	100	30	1	28/6/2016
612	Kallich Tal	28.802	80.260	145	Shuklaphanta	3	10	50	550	300	5	28/6/2016
613	Karki Lake	28.638	80.362	158	Belauri	2	15.4	148.7	200	130	4	28/5/2016
614	Kulla Tal	28.769	80.268	160	Beldandi	1	5.8513	150	150	30	2	28/5/2016
615	Mudka Lake	28.974	80.417	337	Shuklaphanta	8	0.7	17.7	200	200	3	28/5/2016
616	Naini Tal	28.692	80.411	164	Punarbass	1	3	50	70	70	1.5	28/5/2016
617	Naranga thulo Tal	28.916	80.383	215	Shuklaphanta	11	0.9	25.5	200	130	3	28/5/2016
618	Naranga Sano Tal	28.918	80.383	215	Shuklaphanta	9	1.1	25.5	200	130	4	28/5/2016
619	Newland Lake	28.951	80.429	201	Krishnapur	1	0.8	18.7	500	130	3	28/5/2016
620	Pipermandi Tal	28.726	80.411	165	Lajhadi	2	0.9862	100	100	30	1.5	28/5/2016
621	Peli Tal	28.942	80.276	201	Bedkot	3	3.4	79.3	400	150	3	23/5/2016
622	Puraina Tal	28.551	80.838	152	Kailari	1	2.4	26.8	600	130	3	23/5/2016
623	Pyara Tal	28.637	80.424	169	Punarbass	1	0.8	32.3	800	80	4	23/5/2016
624	Shova Tal	28.757	80.363	165	Belauri	5	25	250	190	70	2	29/6/2016
625	Siidhas Sarobar Banda	29.016	80.244	380	Bedkot	6	21.059	20	100	50	5	27/6/2016
626	Sundeu Lake	28.998	80.402	456	Shuklaphanta	8	0.8	11.1	400	200	5	27/5/2016

## Annex-4: Inventory of lakes in Bhojpur district

### 1. Chyangre Pokhari (Panchakanya Pokhari)

ID: P1-D1-001

Topo sheet no: 2687-13 B

Date of inventory: May 21, 2013



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°09'28.50" N; <u>Lon</u> : 87°08'20.00" E; <u>Alt</u> : 1675 masl.
Geographical position	Midlands.
Administrative feature	EDR; Bhojpur district; Chyangre VDC; Ward No. 4 (Currently: Pauwadungma Rural Municipality, Ward No. 3); Chyangre.
Boundary	<u>Core Area</u> : Cultivation land in west and north; Settlement in east and west; Panch Kanya temple in south; Tiwaribhanjyan-Chyangre-Daduwal trail in east. <u>Basin Area</u> : Panchakanya CF in west; Kali Khola CF in east; Jalpa CF in north; Barbute CF in south.
Management responsibility	Chyangre VDC.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp</u> : 32° C (Jun/Jul). <u>Avg. Min</u> : 10° C (Dec). (Source: Jilla Bikash Yojhana 068/069, Suchana Tatha Avilekh Kendra, Bhojpur).
Area	<u>Core Area</u> : 0.5 ha (Approx.); Avg. Length: 100 m Avg. Width: 35 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 2-1.5 m; <u>Basin Area</u> : 6.3 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: Drainage
Water quality	<u>Physicochemical parameter</u> : Temp.: 20° C; pH: 6.5; Transparency: 0.15 m.
Soil feature	Red color; Sandy silt loam texture.
Shocks/vulnerability	None.
Major aquatic plants	Core Area: None.
Major plants in basin	<i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm, Ful); <i>Castanopsis indica</i> (LN: Katus; HT: Tr; LU: Tm, Ful); <i>Ficus bengalensis</i> (LN: Bar; HT: Tr; LU: Tm, Resin); <i>Pinus roxburghii</i> (LN: Khote Salla; HT: Tr; LU: Resin); <i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Tm); <i>Castanopsis hystrix</i> (LN: Paatle Katush; HT: Tr; LU: Tm, Ful); <i>Ageratina adenophora</i> (LN: Banmara; HT: Gr; LU: Fd); <i>Bidens pilosa</i> (LN: Kuro; HT: Gr; LU: None).
Fish	<i>Ctenoharyngodon idella</i> (LN: Carp; LU: Meat); <i>Syprinus carpio</i> (LN: Common carp; LU: Meat).
Herpetofauna	<i>Amolops monticola</i> (LN: Pahadepani Bhyaguta; EN: Mountain Cascade Frog).

Birds	<i>Acridotheres tristis</i> (LN: Dangre; EN: Common Myna); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow); <i>Acridotheres fuscus</i> (LN: Myna; EN: Starling); <i>Columba livia</i> (LN: Malewa; EN: Rock pigeon); <i>Dicrurus leacophaeus</i> (LN: Chibe; EN: Drongo); <i>Pomatorhinus sp.</i> (LN: Bhyakur; EN: Babbler); <i>Pavo cristatus</i> (LN: Mujur; EN: Peafowl); <i>Lophura leucomelanos</i> (LN: Kalij; EN: Kalij Pheasant); <i>Passer domesticus</i> (LN: Bhangera; EN: House Sparrow).
Mammals	<i>Macaca mulatta</i> (LN: Ratobadar; EN: Rhesus Monkey); <i>Panthera pardus</i> (LN: Chituwa; EN: Common Leopard); <i>Muntiacus muntjak</i> (LN: Ratuwa; EN: Barking Deer); <i>Melursus ursinus</i> (LN: Kathe Bhalu; EN: Sloth bear).
Invasive alien species	<i>Eupatorium adenophorum</i> (LN: Banmara; EN: Thoroughwort), <i>Persicaria barbata</i> (LN: Pre Ghaans; En: Nepali Knotweed, Smartweed); <i>Lantana camara</i> (LN: Lwang Phool; EN: Big Sage).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Chyangre Bazar; 20 mfrom lake; Main Trail: Tiwari Bhanjyang road; 4 Km from lake.
Land use	Forestland (25%); Shrubland (10%); Grassland (5%); Agriculture (48%); Settlement (10%); Wetlands (2%).
Demography	Population: 3,039; Male: 1,370; Female: 1,669; HHs: 630; Major Religion: Hinduism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>70.
Traditional production system	Traditional maize and millet in terrae.
Traditional water use practices	Religious pond (2).
Cultural record	None.
Genesis/origin of lake	Chyangra i.e., mountain sheep used to drink water from this lake so named as Chyangre Pokhari, also known as Panchakanya Pokhari because 5 women drowned into the lake in an ancient time.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock; Fishery; Timber; Fuelwood; Fodder/forage.
Cultural services	Local fair 3 times a year in <i>Ramnawami</i> , <i>Bala Chaturdarshi</i> and <i>Shivaratri</i> ; Haat Bazar every wednesday.

### E. Restoration/Management

Structural management	Dam.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No visitors; No tourism potential.

### G. Lake condition

Degrading



## 2. Haans Pokhari

Code: P1-D1-002

Topo sheet no: 2786 - 12

Date of inventory: May 26, 2013



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°18'01.50" N; <u>Lon</u> : 86°59'02.50" E; <u>Alt</u> : 2,956 masl.
Geographical position	Midlands.
Administrative feature	EDR; Bhojpur district; Timma VDC; Ward No. 1 (Currently: Tyamkemayun Rural Municipality, Ward No. 1); <i>Mayum danda</i> at the base.
Boundary	<u>Core Area</u> : Grassland/forest in east, north and south; Grassland/CF in west. <u>Basin Area</u> : Sawale in east; Haas Pokhari CF in west; Mayum Dandakharka in north; Maaz Barkhe forest in south.
Management responsibility	Community (Naiye Kharka CF).
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 40° C (May/June). <u>Avg. Min.</u> : 20° C (Jan.). <u>Rainfall</u> : 1467 mm/yr (District Weather Record 2006).
Area	<u>Core Area</u> : 1.6 ha; Avg. Length: 150 m Avg. Width: 75 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 3-1 m; <u>Basin Area</u> : 6 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: Drainage (Sanwa Khola from west).
Water quality	<u>Physicochemical parameter</u> : Temp.: 16° C; pH: 5.5; Transparency: 0.15 m.
Soil feature	Red color; Sandy clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : None
Major plants in basin	<i>Rhododendron falconeri</i> (LN: Kurlinga; HT: Tr; LU: Tm); <i>Rhodeodendron barbatum</i> (LN: Chimal; HT: Tr; LU: Ful, Fd); <i>Anaphalis contorta</i> (LN: Buki Phool; HT: Gr); <i>Acorus calamus</i> (LN: Bojho; HT: Gr; LU: Med); <i>Pinus wallichiana</i> (LN: Gobre salla; HT: Tr; LU: Ful, Tm); More than a dozen of rhodendron species found here.
Fish	None.
Herpetofauna	<i>Amolops monticola</i> (LN: Pahadepani Bhyaguta; EN: Mountain Cascade Frog); <i>Nanorana (Paa sp.)</i> (LN: Paha; EN: Paa Frog).

Birds	<i>Anthus hodgsoni</i> (LN: Chuinya; EN: Olive-backed Pipit); <i>Dicrurus leucophaeus</i> (LN: Chibe; EN: Drongo); <i>Lophura leucomelanos</i> (LN: Kalij; EN: Kalij Pheasant); <i>Arborophila torqueola</i> (LN: Piyura; EN: Partridge); <i>Hirundo rustica</i> (LN: Gaunthali; EN: Barn Swallow); <i>Anassp.</i> (LN: Jal Haans; EN: Duck).
Mammals	<i>Capricornis sumtraensis</i> (LN: Thar; EN: Serow); <i>Naemorhedus goral</i> (LN: Ghoral; EN: Himalayan Ghoral), <i>Lepus sp.</i> (LN: Kharayo; EN: Hare); <i>Hystrixbranchyura</i> (LN: Dumsi; EN: Indian Crested Porcupine); <i>Sus scrofa</i> (LN: Bandel; EN: Wildpig); <i>Muntiacus muntjak</i> (LN: Ratuwa; EN: Barking Deer); <i>Canis aureus</i> (LN: Syal; EN: Jackal).
Invasive alien species	<i>Eupatorium adenophorum</i> (LN: Banmara; EN: Thoroughwort).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Sawa</i> ; 5 Km from lake; Main Trail: Rimchim Setibagar road.
Land use	Forestland (30%); Shrubland (5%); Grassland (35%); Agriculture (20%); Settlement (10%); Wetlands (1%).
Demography	Population: 2,538; Male: 1225; Female: 1313; HHs: 550; Ethnicity: Brahmin/Chettri (2%); Janajati (97%); Dalit (1%). Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>200.
Traditional production system	Terrace farming.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	>100 years old.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock; Timber; Fuelwood.
Cultural services	Local fair in <i>Bhadra Saptami</i> and <i>Baishak 1<sup>st</sup></i> .

### E. Restoration/Management

Structural management	Dam/wall. (Hiharlid Nepal yet supporting).
None-structural management	Informal restriction to hunt migratory birds.
Conservation plan	None.
Monitoring plan	None

### F. Tourism information

No visitors; No tourism potential.

### G. Lake condition

Degrading.

### 3. Manedanda Pokhari

Code: P1-D1-003

Topo sheet no: 2787 - 13 D

Date of inventory: May 22, 2013



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat: 27°06'03.00" N; Lon: 87°09'06.00" E; Alt: 1,602 masl.

Geographical position

Midlands.

Administrative feature

EDR; Bhojpur district; Bastim VDC; Ward No. 1 (Currently: Pauwadungma Rural Municipality, Ward No. 4); Manedanda.

Boundary

Core Area: Manedada-Tikamanadada trail in west; Chiple-Manedada trail in east; Maliga CF in south; Cultivation land in north.

Basin Area: Katti-Rokegalli trail in west; Simsar Khola in east; Homtari-Thulodumma-Khambuk trail in south; Batim-Manedandatrail in north.

Management responsibility

*Jyoti Mahila Krishak Tole Samuha.*

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp: 40° C (May/June). Avg. Min: 20° C (Jan.). Rainfall: 1467 mm/yr (District Weather Record 2006).

Area

Core Area: 0.1 ha; Avg. Length: 40 m Avg. Width: 35 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 3-1 m; Basin Area: 2.6 ha.

Water Volume

Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: pH: 6.5; Temp.: 20° C; Transparency: 0.10 m.

Soil feature

Greyish red color; Sandy silt loam texture.

Shocks/vulnerability

None.

Major aquatic plants

Core Area: *Cynodon dactylon* (LN: Dubo; HT: Grass; LU: Fd); *Cyperus* sp. (LN: Mothe; HT: Herb; Lu: Grass); *Echinochloa crus-galli* (LN: Jalkumbhi; HT: Ff; LU: Fertilizer); *Fimbristylis* sp. (LN: Tirre Jhar; HT: Em; LU: Forage); *Eichhornia crassipes* (LN: Jalkhumbi; HT: Ff; LU: None).

Major plants in basin

*Alnus nepalensis* (LN: Utish; HT: Tr; LU: Tm); *Ficus bengalensis* (LN: Bar; HT: Tr; LU: Tm, Resin); *Pinus roxburghii* (LN: Sallo; HT: Tr; LU: Resin); *Schima wallichii* (LN: Chilaune; HT: Tr; LU: Tm); *Castanopsis* sp. (LN: Katush; HT: Tr; LU: Ful); *Euphorbia* sp. (LN: Dudhilo; HT: Tr; LU: Fd); *Prunus cerasoides* (LN: Paiyu; HT: Tr; LU: Tm, Fd); *Pyracantha crenulata* (LN: Ghansgaroo kaanda; HT: Sh; LU: Stick, Fencing); *Oxalis corniculata* (LN: Chari Amillo; HT: Fd).

Fish

None.

Herpetofauna	<i>Amolops monticola</i> (LN: Pahadepani Bhyaguta; EN: Mountain Cascade Frog).
Birds	<i>Acridotheres tristis</i> (LN: Dangre; EN: Common Myna); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow); <i>Dicrurus leucophaeus</i> (LN: Chibe; EN: Drongo); <i>Francolinus francolinus</i> (LN: Titra; EN: Partridge); <i>Vanellus</i> sp. (LN: Hutityaun; EN: Lapwing); <i>Passer domesticus</i> (LN: Bhangera; EN: House Sparrow); <i>Pycnonotus cafer</i> (LN: Jureli; EN: Bulbul).
Mammals	<i>Manis</i> sp. (LN: Salak; EN: Pangoline); <i>Hystrix</i> sp. (LN: Dumsi EN: Porcupine); <i>Macaca mulatta</i> (LN: Rato Bandar; EN: Rhesus Monkey); <i>Panthera pardus</i> (LN: Chituwa; EN: Common Leopard); <i>Muntiacus muntjak</i> (LN: Ratuwa; EN: Barking Deer); <i>Canis aureus</i> (LN: Syal; EN: Jackal).
Invasive alien species	<i>Eupatorium adenophorum</i> (LN: Banmara; EN: Thoroughwort); <i>Argimone Mexicana</i> (LN: Sungurekandha; EN: Mexican Poppy); <i>Eichhornia crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Manedanda Bazar</i> ; 300 m from lake; Main Trail: Tiwari Bhanjyang road; 9 Km from lake.
Land use	Forestland (20%); Shrubland (15%); Grassland (12%); Agriculture (42%); Settlement (10%); Wetlands (1%).
Demography	Population: 2,672; Male: 1,287; Female: 1,384; HHs: 522; Major Religion: Hinduism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>20.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock; Timber; <i>Batuke Jhar</i> for pneumonia.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No visitors; No tourism potential.

### G. Lake condition

Degrading.

#### 4. Nira Pokhari

Code: P1-D1-004

Topo sheet no: 2787 - 13 D

Date of inventory: May 22, 2013



##### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°06'37.80" N; <u>Lon</u> : 87°07'34.40" E; <u>Alt</u> : 1,474 masl.
Geographical position	Midlands.
Administrative feature	EDR; Bhojpur district; Bastim VDC; Ward No. 4 (Currently: Pauwadungma Rural Municipality, Ward No. 4); Bastim.
Boundary	<u>Core Area</u> : Sal forest in east; Grassland and trail in west; Grassland and Sal forest in north and south. <u>Basin Area</u> : Cultivation land and Khani gaun in west; Bastim-Chiurebot trail in east; Cultivation land and settlement of Katahare in south; Baghkhori-Bastim trail and Lek Gaun in north.
Management responsibility	State.
Wetlands type	Fresh water/natural; Lacustrine; Seasonal.

##### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp</u> : 40° C (May/June). <u>Avg. Min</u> : 20° C (Jan.). <u>Rainfall</u> : 1467 mm/yr (District Weather Record 2006).
Area	<u>Core Area</u> : 0.1 ha; Avg. Length: 30 m Avg. Width: 25 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 2-0.5 m; <u>Basin Area</u> : 16.7 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : pH: Acidic; Transparency: 0.2 m.
Soil feature	Red color; Sandy silt loam texture.
Shocks/vulnerability	Poor water retention.
Major aquatic plants	<u>Core Area</u> : None.
Major plants in basin	<i>Pinus roxburghii</i> (LN: Khote Salla HT: Tr; LU: Resin); <i>Bombax cebia</i> (LN: Simal; HT: tr; LU: Tm); <i>Lantana camara</i> (LN: Lwang Phool; HT: Gr; LU: None.); <i>Cynodon dactylon</i> (LN: Dubo; HT: Gr; LU: Fd).
Fish	None.
Herpetofauna	<i>Amolops monticola</i> (LN: Pahdepani Bhyaguta; EN: Frog).
Birds	<i>Acridotheres tristis</i> (LN: Dangre; EN: Common Myna); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow); <i>Francolinus francolinus</i> (LN: Titra; EN: Partridge); <i>Gallus gallus</i> (LN: Luinche; EN: Jungle fowl); <i>Coturnix coturnix</i> (LN: Battai; EN: Quail); <i>Lophura leucomelanos</i> (LN: Kaalij; EN: Kalij Pheasant).

Mammals	<i>Lepus</i> sp. (LN: Kharayo; EN: Hare); <i>Hystrix</i> sp. (LN: Dumsi; EN: Porcupine); <i>Panthera pardus</i> (LN: Chituwa; EN: Common Leopard); <i>Muntiacus muntjak</i> (LN: Ratuwa; EN: Barking Deer); <i>Canis aureus</i> (LN: Syal; EN: Jackal).
Invasive alien species	<i>Eupatorium adenophorum</i> (LN: Banmara; EN: Thoroughwort), <i>Lantana camera</i> (LN: Lwang Phool; EN: Sage).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Bastim Bazar</i> ; 900 m from lake; Main Trail: Tiwari Bhanjyang motorable road; 6 Km from lake.
Land use	Forestland (30%); Shrubland (20%); Grassland (30%); Agriculture (18%); Settlement (3%); Wetlands (1%).
Demography	Population: 2485; Male: 1153; Female: 1332; HHs: 543; Major Religion: Hinduism. (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>30.
Traditional production system	Traditional terrace farming.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock.
Cultural services	None.

### E. Restoration/Management

Structural management	Dam.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

## Annex-5: Inventory of lakes in Dhankuta district

### 1. Marga Pokhari

Code: P1-D2-001

Topo sheet no: 2687 02 A

Date of inventory: May 31, 2012



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°59'01.16"N; <u>Lon</u> : 87°16'45.48"E; <u>Alt</u> : 1,570 mmasl.
Geographical position	Mahabharat Range.
Administrative feature	EDR; Dhankuta district; Belhara VDC; Ward No. 3; <i>Marga</i> .
Boundary	<u>Core Area</u> : Earthen dam in east; Foot trail in west and north; School in south. <u>Basin Area</u> : Sunartol-Sijalitol-Sukeahal trail in west; Cultivation land in east; Sukeahal-Bhanjyangtol trail in south; Cultivation land and settlement of newartol in north.
Managementresponsibility	Community forest.
Wetlands type	Fresh water/natural; Palustrine; Emergent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 29.5° C (Jun). <u>Avg. Min.</u> : 7.8° C (Dec); <u>Avg. Rainfall</u> : 834.4 mm/yr (CDS 2012).
Area	<u>Core Area</u> : 0.6 ha; Avg. Length: 65 m; Avg. Width: 60 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 2-1 m; <u>Basin Area</u> : 3.2 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp: 20°C, pH: 6.5; Transparency: 0.3 m.
Soil feature	Grey color; Sandyloam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Cyperus rotundus</i> (LN: Mothe; HT: Em; LU: Grass); <i>Fimbristylis</i> sp. (LN: Tirre Jhar; HT: Em; LU: Forage); <i>Galinsogasp.</i> (LN: Gandhe Jhar; HT: Herb; LU: Fd); <i>Mimosa pudica</i> (LN: Lajawanti Jhar; HT: Herb; LU: Fd); <i>Polygonum sp.</i> (LN: Pirre Jhar; HT: Herb; LU: Fd); <i>Imperata cylindrica</i> (LN: Siru; HT: Em, LU: Fd).
Major plants in basin	<i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm, Fd); <i>Rhododendron arboreum</i> (LN: Laligurans; HT: Tr; LU: Juice, Tm); <i>Melia azedarach</i> (LN: Bakaino; HT: Tr; LU: Tm, Fd); <i>Schima walichii</i> (LN: Chilaune; HT: Tr; LU: Ful, Fd); <i>Albizia lebbeck</i> (LN: Sirish; HT: Tr, LU: Tm, Fd); <i>Pyrus pashia</i>

	(LN:Mel; HT: Tr; LU: Fr); <i>Castanopsis hystrix</i> (LN: Patle; HT: Tr; LU: Fr, Fd); <i>Bambusa sp.</i> (LN: Bans; HT: Grass; LU: Fd, log); <i>Prunus cerasoides</i> (LN: Paiyeu; HT: Tr; LU: Fr); <i>Citrus maxima</i> (LN: Bhogate; HT: Tr; LU: Fr); <i>Thysanolaena maxima</i> (LN: Amlisho; HT: Grass; LU: Broom); <i>Ficus semicordata</i> (LN: Khaniyu; HT: Tr; LU: Fd); <i>Rubus ellipticus</i> (LN: Ainselu; HT: Em; LU: Fr).
Fish	<i>Channasp.</i> (LN: Hile; LU: Meat); <i>Puntissp.</i> (LN: Pothi; LU: Meat).
Herpetofauna	<i>Amolops monticola</i> (LN: Pahadepani Bhyaguta; EN: Mountain Cascade Frog); <i>Xenochrophis piscator</i> (LN: Pani Saap; EN: Watersnake).
Birds	<i>Pycnonotusp.</i> (LN: Jureli; EN: Bulbul; Migratory); <i>Streptopeliasp.</i> (LN: Dhukur; EN: Dove); <i>Lophurasp.</i> (LN: Kaliz; EN: Kalij Pheasant); <i>Urocissasp.</i> (LN: Lampuchhre, EN: Magpie); <i>Psittacula himalayana</i> (LN; Suga; EN: Parakeet).
Mammals	<i>Macaca assamensis</i> (LN: Badar, EN: Assamese Monkey); <i>Lepussp.</i> (LN: Kharayo; EN: Hare).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Marga tol</i> ; 20 m from lake; Main Trail: Hile–Chhintang trail road; 50 m from trail to lake.
Land use	Forestland (20%); Shrubland (5%); Grassland (10%); Agriculture (50%); Settlement (10%); Wetlands (5%).
Demography	Population: 70; Male: 30; Female: 40; HHs: 11; Ethnicity: Brahmin/Chettri (18%); Janajati (82%); Major Religion: Hinduism. (CBS,2012)
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>400 no.
Traditional production system	Maize, Potato and Ginger in terrace cropland.
Traditional water use practices	Religious pond (1).
Cultural record	Lord Marga of the Rai Community believe to live in the lake.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock; Fishery; Timber; Fuelwood; Fodder/forage; Wild Fr; Bamboo for handicraft.
Cultural services	Religious site for the Rai community; Local fair on <i>Jestha</i> (June/July) and <i>Teej</i> (August).

### E. Restoration/Management

Structural management	Afforestation.
Non-structural management	Informal restriction.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

Few visitors; Communication and health post facilities available (45 minute away from lake); Moderate tourism potential; Needs improvement in infrastructure, human resource, and promotional activities.

### G. Lake condition

Degrading.



## 2. Rajarani Taal

Code: P1-D2-002

Toposheet no:2687 02B

Date of inventory: April 27, 2012



### A. General Feature

Conservation status

None.

Geographical coordination

Lat: 26°52'52.20"N; Lon: 87°26'08.60" E; Alt: 1,610 masl.

Geographical position

Siwalik.

Administrative feature

EDR; Dhankuta district; Rajarani VDC; Ward No. 6,8 (Currently: Chaubisey Rural Municipality, Ward No. 6); PatiBazar

Boundary

Core Area: Meghana CF in west and north; Katuwal Gaon in east; Patibazar in south.

Basin Area: Radansala in east; Meghansa CF in west and north; Mawarak Danda in south.

Managementresponsibility

Rajarani Lake Conservation Committee.

Wetlands type

Fresh water/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp: 29.5°C (Jun). Avg. Min: 7.8°C (Dec); Avg. Rainfall: 834.4 mm/yr (CDS 2012).

Area

Core Area: 5.8 ha; Avg. Length: 800 m; 2 m; Avg. Width: 300 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 2-1.5 m; Basin Area: 275.4 ha.

Water Volume

Peak Period: NA; Dry period: NA; Inlet: Small stream; Outlet: Khadam Khola.

Water quality

Physicochemical parameter: Temp.: 20° C; pH: 6.5; Transparency: 35.75 m; Elec. Conductivity: 44.9  $\mu$ S/cm; DO: 2.4 mg/L; COD: 90 mg/L; BOD: 6.02; TDS: 23 mg/L; TSS: 45; NO<sub>3</sub>: mg/L (Source: ILBM plan of Rajarani Lake 2011).

Soil feature

Greyolor; Sandy silt loam.

Shocks/vulnerability

200 yrs before, it was as twin lakebroken later; Now Khadam Khola discharging water to the *Gachiya Khola* of Morang.

Major aquatic plants

Core Area: *Ageratum conyzoides* (LN: Ilame Jhar; HT: Em.; LU: Fd.); *Echinochloa colona* (LN: Sama; HT: Ff); *Oxalis corniculata* (LN: Chari amillo; HT: Gr); *Nymphaea* sp (LN: Kamal; HT: Ff; LU: Orn), *Eichhornia crassipes* (HT: Ff.; LU: Fd for pig).

Major plants in basin

*Alnus nepalensis* (LN: Utish; HT: Tr; LU: Tm, Ful); *Castanopsis indica* (LN: Katus; HT: Tr; LU: Tm, Ful); *Erythrania strict* (LN: Ratogedi; HT: Sh; LU: Tm, Fd); *Ficus bengelensis* (LN: Bar; HT: Tr; LU: Tm, Resin); *Juglans regia* (LN: Katus; HT: Tr; LU: Tm; Fd); *Myrica esculenta* (LN: Kafal; HT: Tr; LU: Fr); *Pinus roxburghii* (LN: Sallo; HT: Tr; LU: Resin); *Schima wallichii* (LN: Chilaune; HT: Tr; LU: Tm).

Fish

*Heteropneustes fossilis* (LN: Singi; LU: Meat); *Labeo rohita* (LN: Rahu; LU: Meat); *Cirrhinus mrigala* (LN: Naini; LU: Meat); *Catla Catla* (LN: Bhyakur; LU: Meat).

Herpetofauna	<i>Tylotriton verrucosus</i> (LN: Thakthake; EN: Himalayan Newt); <i>Varanus flavescens</i> (LN: Sun Gohoro; EN: Golden Monitor Lizard); <i>Varanus bangalensis</i> (LN: Bhaisee Gohoro; EN: Common monitor lizard); <i>Bufo himalayanus</i> (LN: Khasre Bhyaguto; EN: Bufo).
Birds	<i>Pycnonotus</i> sp. (LN: Jureli; EN: Bulbul); <i>Amaurornis phoenicurus</i> (LN: Simkukhura; EN: White-breasted Waterhen); <i>Garrulax leucolophus</i> (LN: Torigada; EN: White-crested Laughing Thrush); <i>Lanius schach</i> (LN: Bhadrai; EN: Long-tailed Shrike); <i>Megalaima asiatica</i> (LN: Nyauli; EN: Blue-Throated Barbet); <i>Hypsipetes leucocephalus</i> (LN: Jureli; EN: Black Bulbul); <i>Proopyga pusilla</i> (LN: Bhyakur; EN: Pygmy Wren Babbler); <i>Dendrocopos nanus</i> (LN: Kathphoruwa; EN: Brown Capped Pygmy Woodpecker).
Mammals	<i>Lepus</i> sp. (LN: Kharayo; EN: Hare); <i>Panthera pardus</i> (LN: Chituwa; EN: Common Leopard); <i>Hystrix</i> sp. (LN: Dumsi; EN: Porcupine); <i>Felis chaus</i> (LN: BanBiralu; EN: Jungle Cat); <i>Dremomys</i> sp. (LN: Lokharke; EN: Orange bellied Squirrel); <i>Pipistrellus</i> sp. (LN: Chamero; EN: Bat, ON: 2); <i>Naemorhedus goral</i> (LN: Ghoral; EN: Himalayan goral); <i>Muntiacus muntjak</i> (LN: Ratuwa; EN: Barking Deer).
Invasive alien species	<i>Eupatorium</i> sp. (LN: Banmara; EN: Thoroughwort); <i>Eichhornea crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth); <i>Mikania micrantha</i> (LN: Lahare Banmara; EN: Bitter Vine).

### C. Socio-Economy at Basin

Nearby settlement	<i>Danda Bazar</i> ; 3 Km from lake; Main Trail: Bhendetar-Rajarani road; 600 m from Pati Bazar to lake.
Land use	Forestland (25%); Shrubland (5%); Grassland (2%); Agriculture (45%); Settlement (10%); Wetlands (5%); Others (8%).
Demography	Population: 3002; Male: 1570; Female: 1432; HHs: 593; Ethnicity: Brahmin/Chettri (10%); <i>Janajati</i> (82%); <i>Dalit</i> (5%); Others (2%); Major Religion: Hinduism. (CBS,2012)
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	450 no.
Traditional production system	Terrace farming.
Traditional water use practices	Stone spout; Water coup.
Cultural record	Meeting place of ancient queen and king of the Limbu's God.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock; Fishery; Timber; Fuelwood; Fodder; NTFPs.
Cultural services	Historic site for the Limbu community; Excursion site; Local fair every 15 days in the full-moon.

### E. Restoration/Management

Structural management	Dam; Resting place; Communitytoilet; Foot trail around lake (Support from NLCDC and DDC for restoration work.
Non-structural management	Informal restriction for pollution; Fishing regulated.
Conservation plan	Available.
Monitoring plan	None.

### F. Tourism information

>5000 annual visitors; Good guest house-1 and localhotel-3; Tourism potential high; Needs tourism marketing.

### G. Lake condition

Degrading.

## Annex-6: Inventory of Lakes in Ilam district

### 1. Antu Pokhari

Code: P1-D3-001

Topo sheet no:2688 01B

Date of inventory:



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26° 52' 55.40"N; <u>Lon</u> : 88° 7'40.50" E; <u>Alt</u> : 1,653 masl.
Geographical position	Mahabharat Range.
Administrative feature	EDR; Ilam district; Shree Antu VDC; Ward No. 2 (Currently: Suryodaya Municipality, Ward No. 4); <i>Bhanjyang</i> .
Boundary	<u>Core Area</u> : Foot trails in east, west and north; Vegetation in south. <u>Basin Area</u> : Agricultural land and forest in west; Chhiruwa-Antudada trail in east; Cultivation land in south; Thuloshribun-Samalbun trail in north.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Palustrine; Emergent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp</u> : 31 <sup>0</sup> C (Jun/July); <u>Avg. Min</u> : 5 <sup>0</sup> C (Dec) (DDC Profile 2006); <u>Rainfall</u> : 2500 mm/yr (with reference to <a href="http://www.slideshare.net/RajKumarAdhikari">www.slideshare.net/RajKumarAdhikari</a> ).
Area	<u>Core Area</u> : 1.1 ha; Avg. Length: 210 m; Avg. Width: 50; Avg. Depth: 4.5 m; Max-Min Surface Water Level: 6-3 m; <u>Basin Area</u> : 13.6 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16 <sup>0</sup> C; pH: Slightly acidic; Transparency: 0.3 m.
Soil feature	Red color; Loamy sand texture
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Ageratum conyzoides</i> (LN: Ilame/Gandhe Jhar; HT: Em.; LU: None); <i>Echinocloa colona</i> (LN: Sama; HT: Em.); <i>Cynodon dactylon</i> (LN: Dubo; HT: Em.; LU: Forage); <i>Oxalis corniculata</i> (LN: Chari Amillo; HT: Gr, LU: Forage); <i>Nymphaea sp.</i> (LN: Kamal; EN: Water Lily; HT: Sm; LU: Orn); <i>Cyperus rotundus</i> (LN: Mothe; HT: Em); <i>Fimbristylis sp.</i> (LN: Tirre Jhar; HT: Em; LU: Fd).
Major plants in basin	<i>Bambusasp.</i> (LN: Bans; HT: Grass; LU: Handicraft); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm, Ful); <i>Pinus roxburghii</i> (LN: Sallo; HT: Tr, LU: Tm, Ful); <i>Camellia sinensis</i> (LN: Chiyapattiko Bot; HT: Sh; LU: Tea tonic); <i>Drepanostachyum suberecta</i> (LN: Malingo; HT: Sh; LU: Handicraft); <i>Cryptomeria japonica</i> (LN: Dhupi; HT: Tr; LU: Scent); <i>Centella asiatica</i> (LN:

	Ghodtapre; HT: Hr; LU: Med); <i>Polygonum hydropiper</i> (LN: Pire Jhar; HT: Hr; LU: Fish poisoning).
Fish	<i>Cetanharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Carassius carassius</i> (Red Fish; ON: 4).
Herpetofauna	<i>Amolops monticola</i> (LN: Pahadepani Bhyaguto; EN: Mountain Cascade Frog); <i>Xenochrophissp.</i> (LN: Pani Sarpa; EN: Keelback Snake); <i>Varanus flavescens</i> (LN: Sun gohoro; EN: Golden Monitor Lizard); <i>Nanoranasp.</i> (LN: Paha; EN: Paa Frog); <i>Calotes sp.</i> (LN: Chheparo; EN: Lizard).
Birds	<i>Lophura leucomelanos</i> (LN: Kalij; EN: Kalij Pheasant); <i>Streptopelia sp.</i> (LN: Dhukur; EN: Dove; LU: Meat); <i>Apussp.</i> (LN: Gauthali; EN: Alpine Swift); <i>Acridotheressp.</i> (LN: Ruppi; EN: Myana); <i>Anassp.</i> (LN: Pani Haans; EN: Water Duck); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow).
Mammals	<i>Muntiacus muntjak</i> (LN: Mirga; EN: Barking Deer); <i>Lepus sp.</i> (LN: Kharayo; EN: Hare); <i>Hystrixsp.</i> (LN: Dumsi; EN: Porcupine).
Invasive alien species	<i>Eupatorium sp.</i> (LN: Banmara; EN: Thoroguwort); <i>Lantana camara</i> (LN: Lwang Phool; EN: Sage).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Bhanjyang</i> ; 250 m from lake; Main Trail: Phikkal Bazar-Shree Antu road; 1.5 Km from lake.
Land use	Forestland (15%); Shrubland (10%); Agriculture (60%); Settlement (10%); Wetlands (1%); Others (4%).
Demography	Population: 335; Male: 160; Female: 175; HHS: 75; Ethnicity: Brahmin/Chhetri (30%); Janajati (50%); Dalit (5%); Other (15%); Major Religion: Hinduism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>350 no.
Traditional production system	High altitutte terrace farming.
Traditional water use practices	Stone spout.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigation for vegetable garden.
Cultural services	Aesthetic, Recreational.

### E Restoration/Management

Structural management	Dams; Afforestation.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	Available.

### F. Tourism information

Few visitors; Traditional home stay facilities available; Black top road linking Antu to Fikkal Bazar; Moderate tourism potential; Need tourism promotion programs & infrastructure development.

### G. Lake condition

Degrading.

## 2. Ashok Pokhari

Code: P1-D3-002

Toposheet no: 2688 01 A

Date of inventory: June 14, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°52'56.67"N; <u>Lon</u> : 88°02'02.72" E; <u>Alt</u> : 1,716 masl.
Geographical position	Mahabharat Range.
Administrative feature	EDR; Ilam district; Panchakanya VDC; Ward no. 2; <i>Aaitabare</i> .
Boundary	<u>Core Area</u> : School in west; Agricultural land in east; Settlement of Aitabare in north; Forest in south. <u>Basin Area</u> : Suntale-Tinghare trail in west; Dhunge-Malim trail in east; Tinghare- Shantigolai- Malim trail in south; Mechi Highway in north.
Management responsibility	Aaitabare Youth Club.
Wetlands type	Fresh water/natural; Palustrine; Emergent.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 31 <sup>0</sup> C (Jun/July); <u>Avg. Min</u> : 5 <sup>0</sup> C (Dec) (DDC Profile 2006); <u>Rainfall</u> : 2500 mm/yr (With reference to <a href="http://www.slideshare.net/RajKumarAdhikari">www.slideshare.net/RajKumarAdhikari</a> ).
Area	<u>Core Area</u> : 0.2 ha; Avg. Length: 60 m; Avg. Width: 40 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 3-1 m; <u>Basin Area</u> : 6.3 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16 <sup>0</sup> C; pH: 6; Transparency: 0.2 m.
Soil feature	Red and grey color; Sandy & clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Ageratum conyzoides</i> (LN: Ilame/Gande Jhar; HT: Em.; LU: Fd.); <i>Cyperus</i> spp., (LN: Mothe; HT: Em; LU: Forage); <i>Cynodon dactylon</i> (LN: Dubo; HT: Em; LU: Forage); <i>Nymphaea stellata</i> (Water Lily; HT: Ff; LU: Orn).
Major plants in basin	<i>Artemisia dubia</i> (LN: Titepati; HT: Sh; LU: Med); <i>Aster albescens</i> (LN: Ganobuti; HT: Herb); <i>Thysanolaena maxima</i> (LN: Amliso; HT: Gr; LU: Broom); <i>Camellia sinensis</i> (Tea; HT: Hr; LU: Tea tonic); <i>Ageratum conyzoides</i> (LN: Gandhe Jhar; HT: Hr; LU: Med); <i>Pinus</i> sp. (LN: Sallo; HT: Tr, LU: Tm, Ful); <i>Paspalidium flavidum</i> (LN: Ghode dubo; HT: Grass; LU: Religious); <i>Centella asiatica</i> (LN: Ghodtapre; HT: Hr; LU: Med); <i>Bambusa</i> sp. (LN: Bans; HT: Gr; LU: Handicraft, Fd).
Fish	<i>Cetanharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Carassius carassius</i> (Redfish; LU: Meat).

Herpetofauna	<i>Amolops monticola</i> (LN: Pahadepani Bhyaguta; EN: Mountain Cascade Frog); <i>Xenochrophissp.</i> (LN: Pani Sarpa; EN: Keelback Snake); <i>Nanorana sp.</i> (LN: Paha; EN: Paa frog); <i>Varanus bangalensis</i> (LN: Gohoro; EN: Common Monitor Lizard).
Birds	<i>Passer sp.</i> (LN: Bhagera; EN: Sparrow); <i>Apus Affinis</i> (LN: Gauthali; EN: House Swift); <i>Streptopelia sp.</i> (LN: Dhukur; EN: Dove; LU: Meat); <i>Lophura leucomelanos</i> (LN: Kaliz; EN: Kalij Pheasant); <i>Spilornis cheela</i> (LN: Kakakul, EN: Eagle); <i>Urocissasp.</i> (LN: Lampuchhre; EN: Magpie); <i>Cuculusp.</i> (LN: Koilee; EN: Cuckoo).
Mammals	<i>Lepus sp.</i> (LN: Kharayo; EN: Hare); <i>Muntiacus muntjak</i> (LN: Mirga; EN: Barking Deer).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Aitabare Bazar</i> ; 100 m from lake; Main Trail: Fikkal Bazar-Aitabare road; 100 m from lake.
Land use	Forestland (5%); Shrubland (15%); Grassland (4%); Agriculture (70%); Settlement (5%); Wetlands (1%).
Demography	Population: 150; Male: 68; Female: 82; HHs: 25; Ethnicity: Brahmin/Chhetri (40%); Janajati (50%); Other (Rajbanshi: 10%); Major Religion: Hinduism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>150 no.
Traditional production system	Traditional terrace farming at basin.
Traditional water use practices	Stone spout.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	None.
Cultural services	Aesthetic; Recreational.

### E. Restoration/Management

Structural management	Afforestation.
Non-structural management	None.
Conservation plan	Available.
Monitoring plan	Available.

### F. Tourism information

Few visitors; Home stay facilities; Low tourism potential.

### G. Lake condition

Degrading.

### 3. Gore Pokhari (Seti Devi)

Code: P1-D3-003

Toposheet no: 2688 - 1 C

Date of inventory: June 14, 2012



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°50'18.34"N; <u>Lon</u> : 88°03'50" E; <u>Alt</u> : 1,215 masl.
Geographical position	Mahabharat Range.
Administrative feature	EDR; Ilam district; Kolbung VDC; Ward No. 3 (Currently: Rong Rural Municipality, Ward No. 4); <i>Marse</i> .
Boundary	<u>Core Area</u> : Agricultural land in east, west and north; Forest in south. <u>Basin Area</u> : Ambigaun-Marse trail in west; Chametar-Marse trail in east; Cultivation land in south and north.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Palustrine; Emergent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max</u> : Temp: 31 <sup>0</sup> C (Jun/July); <u>Avg. Min</u> .: 5 <sup>0</sup> C (Dec) (DDC Profile 2006); <u>Rainfall</u> : 2500 mm/yr ( <u>With reference to</u> <a href="http://www.slideshare.net/RajKumarAdhikari">www.slideshare.net/RajKumarAdhikari</a> ).
Area	<u>Core Area</u> : 0.04 ha; Avg. Length: 50 m; Avg. Width: 40 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 5-1 m; <u>Basin Area</u> : 9.8 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : pH: 6.5; Transparency: 0.3 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : None.
Major plants in basin	<i>Drepanostachyum suberecta</i> (LN: Malingo; HT: Tr; LU: Handicraft); <i>Thysanolaena maxima</i> (LN: Amliso; HT: Sh; LU: Broom); <i>Albizia chinensis</i> (LN: Siris; HT: Tr; LU: Tm, Ful, Fd); <i>Bambusasp.</i> (LN: Bans; HT: Sh; LU: ful, Fd); <i>Pinus roxburghii</i> (LN: Salla; HT: Tr, LU: Tm, Ful); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Rel); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm, Ful, Fd); <i>Artemisia dubia</i> (LN: Titepati; HT: Sh; LU: Med); <i>Sapium insigne</i> (LN: Khirro; HT: Tr; LU: Tm, Ful, Fd); <i>Ficus semicordata</i> (LN: Khaniu; HT: Tr; LU: Tm, Ful, Fd); <i>Schima walichii</i> (LN: Chilaune; HT: Tr; LU: Tm, Ful, Fd).
Fish	<i>Cetanharyngodon idella</i> (LN: Carp; LU: Meat); <i>Carassius carassius</i> (Goldfish; LU: Meat).

Herpetofauna	<i>Amolops monticola</i> (LN: Pahadepani Bhyaguta; EN: Mountain Cascade Frog); <i>Xenochrophis sp.</i> (LN: Pani Sarpa; EN: Keelback Snake).
Birds	<i>Passer sp.</i> (LN: Bhangera; EN: Sparrow); <i>Apus affinis</i> (LN: Gauthali; EN: House Swift); <i>Pycnonotus sp.</i> (LN: Jureli; EN: Bulbul; LU: Meat); <i>Dendrocitta sp.</i> (LN: Kokale; EN: Treepie); <i>Corbus splendens</i> (LN: Kaag; EN: House Crow); <i>Streptopelia sp.</i> (LN: Dhukur, EN: Dove); <i>Acridotheressp.</i> (LN: Ruppi; EN: Starling).
Mammals	<i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Monkey); <i>Semnopithecussp.</i> (LN: Dhedu; EN: Hanuman Langur); <i>Muntiacus muntjak</i> (LN: Mirga; EN: Barking Deer); <i>Lepussp.</i> (LN: Kharayo; EN: Hare); <i>Hystrixindica</i> (LN: Dumsi; EN: Indian Crested Porcupine).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Marse</i> ; 50 m from lake; Main Trail: Kolbung-Kanyam trail; 2 Km from lake.
Land use	Forestland (2%); Shrubland (15%); Grassland (30%); Agriculture (40%); Settlement (8%); Wetlands (5%).
Demography	Population: 20; Male: 8; Female: 12; HHs: 4; Ethnicity: Janajati (100%); Major Religion: Hinduism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>90 No.
Traditional production system	Traditional maize production.
Traditional water use practices	Ritual pond.
Cultural record	Seti Devi temple.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock.
Cultural services	Worship in Seti Devi temple during festivals.

### E. Restoration/Management

Structural management	Dam.
Non-structural management	Informal restriction for any pollution.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

Few visitors; No tourism potential.

### G. Lake condition

Good.



#### 4. Jor Pokhari

Code: P1-D3-004

Toposheet no: 2687 04 D

Date of inventory:



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°51' 22.4"N; <u>Lon</u> : 87° 59'21.1" E; <u>Alt</u> : 1565 masl.
Geographical position	Mahabharat Range.
Administrative feature	EDR; Ilam district; Laxmipur VDC; Ward No. 7,9 (Currently: Suryodaya Municipality, Ward No. 13); <i>Jor Pokhari, Laxmipur</i>
Boundary	<u>Core Area</u> : Foot trail in east, west and south; School in north. <u>Basin Area</u> : Settlement and Agricultural land of Laxmipur in west; east and south; Batase-BHalukhop road in north.
Management responsibility	Community ( <i>Jor Pokhari Samrakshan Samiti</i> ).
Wetlands type	Fresh water/natural; Lacustrine; Permanenet.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp</u> : 31 <sup>0</sup> C (Jun/July); <u>Avg. Min</u> : 5 <sup>0</sup> C (Dec) (DDC Profile 2006); <u>Rainfall</u> : 2500 mm/yr (With reference to <a href="http://www.slideshare.net/RajKumarAdhikari">www.slideshare.net/RajKumarAdhikari</a> ).
Area	<u>Core Area</u> : 0.4 ha; Avg. Length: 135 m; Avg. Width: 20 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 3-1 m; <u>Basin Area</u> : 6.7 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16 <sup>0</sup> C; pH: 5.5; Transparency: 0.2 m.
Soil feature	Red and grey color; Loamy sand texture.
Shocks/vulnerability	None.
Major aquatic plants	<i>Nymphaea sp.</i> (LN: Kamal; EN: Water Lily; HT: Ff; LU: Orn), <i>Setaria sp.</i> (LN: Jhusile Bansa; HT: Em; LU: Fd); <i>Cyperus spp.</i> (LN: Mothe; HT: Em; LU: Fd).
Major plants in basin	<i>Bambusa sp</i> (LN: Bans; HT: Grass; LU: Handicraft); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm, Ful); <i>Pinus roxburghii</i> (LN: Sallo; HT: Tr, LU: Tm, Ful); <i>Camellia sinensis</i> (LN: Chiyapti; HT: Sh; LU: Tea tonic); <i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Tm, Ful); <i>Albizia chinensis</i> (LN: Siris; HT: Tr; LU: Handicraft, Fd).
Fish	<i>Cetanolaryngodon idella</i> (LN: Carp; LU: Meat); <i>Carassius carassius</i> (EN: Red Fish; LU: Meat).
Herpetofauna	<i>Amolops monticola</i> (LN: Pahadepani Bhyaguta; EN: Mountain Cascade Frog); <i>Xenochrophis sp.</i> (LN: Pani Sarpa; EN: Keelback Snake).

Birds	<i>Passer domesticus</i> (LN: Bhangera; EN: House Sparrow); <i>Streptopelia sp.</i> (LN: Dhukur; EN: Dove); <i>Cuculus sp.</i> (LN: Koilee; EN: Cuckoo); <i>Acridotheressp.</i> (LN: Ruppi; EN: Myna); <i>Apussp.</i> (LN: Gauthali; EN: Swift).
Mammals	<i>Muntiacus muntjak</i> (LN: Ratuwa; EN: Barking Deer); <i>Dremomyssp.</i> (LN: Lokharke; EN: Squirrel); <i>Herpestessp.</i> (LN: Nyauri; EN: Mongoose); <i>Macaca assamensis</i> (LN: Bandar; EN: Assamese monkey).
Invasive alien species	<i>Eupatorium sp.</i> (LN: Banmara; EN: Thoroughwort).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Laksmipur</i> ; 500 m from lake; Main Trail: Aitabare-Ilam; 3.5 Km from lake.
Land use	Forestland (20%); Shrubland (5%); Agriculture (55%); Settlement (10%); Wetlands (2%); Others (8%).
Demography	Population: 227; Male: 110; Female: 117; HHs: 45; Ethnicity: Brahmin/Chhetri (30%); Janajati (50%); Other (20%); Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>300 no.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigation for vegetable garden; Domestic water use.
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### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

<b>F. Tourism information</b>	Few visitors. No tourism potential.
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<b>G. Lake condition</b>	Degrading.
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## 5. Mai Pokhari

Code: P1-D3-005

Toposheet no:2787 - 16 B

Date of inventory: June 14, 2012



### A. General Feature

Conservation status

Geographical coordination

Geographical position

Administrative feature

Boundary

Management responsibility

Wetlands type

### B. Ecological Feature

Climatic feature

Area

Water Volume

Water quality

Soil feature

Shocks/vulnerability

Major aquatic plants

Major plants in basin

Fish

Ramsar site; Key Bird Site.

Lat: 27° 00' 21.40"N; Lon: 87° 55'45.8" E; Alt: 2,125 masl.

Mahabharat Range.

EDR; Ilam district; Mai Pokhari, Sulubung and Sumbek VDCs; Ward no. 4; Mai Pokhari.

Core Area: Forest in all directions.

Basin Area: Deurali-Bhitte trail in west; Dadakharka-Maipokhari-Jasbire road in east; Bhitte-Talagau trail in south; Deurali-Talagau trail in north.

Maipokhare Conservation Committee with the representation of DDC.

Fresh water/natural; Lacustrine; Permanent.

Avg. Max: Temp: 18° C (Jun/July); Avg. Min: 2° C (Dec); Rainfall: 3000 mm/yr. (Mgmt plan of Maipokhari Ramsar Site 2011).

Core Area: 2.2 ha; Avg. Length: 200 m; Avg. Width: 130 m; Avg. Depth: 8.5 m; Max-Min Surface Water Level: 9-6.5 m; Basin Area: 7.7 ha.

Peak Period: 67 million ltr; Dry period: 170,000 m<sup>3</sup>; Inlet: None; Outlet: Regulated drain (Avg. Max: Temp: 31° C (Jun/July); Avg. Min: 5° C (Dec) (DDC Profile 2006); Rainfall: 2500 mm/yr (With reference to [www.slideshare.net/RajKumarAdhikari](http://www.slideshare.net/RajKumarAdhikari)).

Physicochemical parameter: Temp.: 10° C, pH: 5.7; Electric conductivity: 6.7. (Source: Mgmt plan of Maipokhari Ramsar Site 2012); Transparency: 0.5 m.

Grey color; Sandy loam texture.

Water volume decreasing.

Core Area: *Nymphaea stellata* (LN: Nilkamal; EN: Blue lotus; HT: Ff; LU: Orn); *Sphagnum nepalensis* (LN: Jhyau; HT: Em; LU: none).

*Rhododendron arboreum* & *R. Companulatum* (LN: Gurans; HT: Tr; LU: Ful); *Michelia deltsopa* (LN: Chap; HT: TR; LU: Tm); *Quercus semecarpifolia* (LN: Khasru; HT: Tr; LU: Tm); *Castanopsis indica* (LN: Katus; HT: Tr; LU: Tm, Fr); *Panax pseudoginseng* (LN: Ginseng; HT: Hr; LU: Med); *Cryptomeria japonica* (LN: Sallo; HT: Tr, LU: Tm, Ful); *Valeriana hardwickii* (LN: Nakali Jatamansi; HT: Hr; LU: Med); 17 species of Orchid were recorded. (Source: Mgmt. Plan of Maipokhari Ramsar Site 2012).

*Cetanolaryngodon idella* (LN: Carp; LU: Meat); *Carassius carassius* (EN: Redfish; LU: Meat).

Herpetofauna	<i>Tylototriton verrucosus</i> (LN: Thakthake; EN: Himalayan warty newt); <i>Bufo himalayanus</i> (LN: Lekali Bhyagoto; EN: Toad); <i>Amolops marmoratus</i> (LN: Tite Paha); <i>Varanus bengalensis</i> (LN: Bhainse; EN: Monitor lizard); <i>Polypedtes maculates</i> (LN: Rukh Bhyaguto); <i>Japalura variegata</i> (LN: Chhrike; EN: Variegated mountain lizard); <i>Pseudoxendon macrops</i> (LN: Sapyhe); <i>Gloydius himalayanus</i> (LN: LatoSarpa) (Source: Mgmt. Plan of Maipokhari Ramsar Site 2012).
Birds	<i>Heterophasia annectans</i> (EN: Rufous-backed Sibia); <i>Parus spilonotus</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Spilornis cheela</i> (LN: Jurechil; EN: Crested serpent Eagle); <i>Falco tinnunculus</i> (LN: Baa; EN: Common Kestrel); <i>Leiothrix lutea</i> (EN: Red-billed Leiothrix); <i>Turdoides nepalensis</i> (LN: Kande Bhyakur; EN: Spiny Babbler). (Source: Mgmt. Plan of Maipokhari Ramsar Site 2012).
Mammals	<i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: BanBiral; EN: Jungle Cat); <i>Manis pentadactyla</i> (LN: Salak; EN: Chinese Pangolin). (Source: Management Plan of Maipokhari Ramsar Site 2012).
Invasive alien species	<i>Mikaniamicrantha</i> (LN: Lahare Banmara; EN: Bitter Vien); <i>Eupatorium</i> sp (LN: Banmara; EN: Thoroughwort).
Endemic plant/animal	<i>Sphagnum nepalensis</i> (LN: Jhyau; EN: Himalayan Warty Newt); <i>Tylototriton verrucosus</i> (LN: Thakthake; EN: Himalayan Newt).

### C. Socio-Economy at Basin

Nearby settlement	<i>Mai Pokhari</i> ; 50 m from lake; Main Trail: Ilam-Barbote-Mai Pokhari; 50 m from lake.
Land use	Forestland (40%); Agriculture (30%); Settlement (10%); Wetlands (2%); Others (18%).
Demography	Population: 2498; Male: NA; Female: NA; HHs: 504; Ethnicity: Brahmin/Chhetri (20%); Janajati (70%); Dalit (5%); Other (5%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>2500.
Traditional production system	Traditional farming including aromatic & medicinal plant.
Traditional water use practices	Religious/ritual pond.
Cultural record	Religious site; Sattya Dhuni Bed Ashram; Nirmal Mai Ashram; Siva Mandir; and Tashi Tso-Tsoling Gomba at basin.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	Aesthetic; Religious; Educational.

### E. Restoration/Management

Structural management	Dam; Support from Ministry of Environment; NLCDC and DDC.
Non-structural management	Formal restriction.
Conservation plan	Available (by the East Foundation and DFO).
Monitoring plan	None.

### F. Tourism information

>25,000 visitors/yr; Few good hotels in lake site; Motarable road to Ilam Bazar; Good hotel and transportation services from Ilam Bazar; Tourism potential high. Needs promotional activities.

### G. Lake condition

Degrading.

## 6. Suke Pokhari

Code: P1-D3-006

Toposheet no: 2687 04 D

Date of inventory:



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat</u> : 26°51'32.40"N; <u>Lon</u> : 87° 59'38.20" E; <u>Alt</u> : 1,704 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	EDR; Ilam district; Laxmipur VDC; Ward No. 2 (Currently: Suryodaya Municipality, Ward No. 14); Laxmipur
Boundary	<u>Core Area</u> : Cultivation land in all direction. <u>Basin Area</u> : Batase-Laxmipur trail in west; Laxmipur-Daktargau trail in east; Cultivation land in south; Batase-Bhalukhop road in north.
Management responsibility	Community school.
Wetlands type	Fresh water/natural; Palustrine; Emergent.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 31 <sup>0</sup> C (Jun/July); <u>Avg. Min Temp</u> : 5 <sup>0</sup> C (Dec) (DDC Profile 2006); <u>Rainfall</u> : 2500 mm/yr (With reference to <a href="http://www.slideshare.net/RajKumarAdhikari">www.slideshare.net/RajKumarAdhikari</a> ).
Area	<u>Core Area</u> : 0.3 ha; Avg. Length: 70 m; Avg. Width: 25 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 3-0.5 m; <u>Basin Area</u> : 5.5 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16 <sup>0</sup> C; pH: 5.5; Transparency: 0.3 m.
Soil feature	Dark color; Sandy texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Nymphaea sp.</i> (LN: Kamal; EN: Water Lily; HT: Sm; LU: Orn).
Major plants in basin	<i>Bambusa sp.</i> (LN: Bans; HT: Grass; LU: Handicraft); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm, Ful); <i>Pinus wallichiana</i> (LN: Sallo; HT: Tr; LU: Tm, Ful).
Fish	None.
Herpetofauna	<i>Amolops monticola</i> (LN: Bhyaguto; EN: Mountain Cascade Frog); <i>Xenochrophis sp.</i> (LN: Pani Sarpa; EN: Keelback Snake).
Birds	<i>Apus sp.</i> (LN: Gauthali; EN: Swift); <i>Streptopelia sp.</i> (LN: Dhukur; EN: Dove); <i>Acridothera sp.</i> (LN: Ruppi; EN: Starling).

Mammals	<i>Lepus sp.</i> (LN: Kharayo; EN: Hare); <i>Muntiacus muntjak</i> (LN: Mirga; EN: Barking Deer); <i>Dremomyssp.</i> (LN: Lokharke; EN: Squirrel).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Laksmipur</i> ; 500 m from lake; Main Trail: Aitabare-Ilam; 3.5 Km from lake.
Land use	Forestland (10%); Agriculture (60%); Settlement (20%); Wetlands (2%); other (8%).
Demography	Population: 160; Male: 75; Female: 85; HHs: 34; Ethnicity: Brahmin/Chhetri (40%); Janajati (50%); Other (10%); Major Religion: Hinduism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>150 no.
Traditional production system	Terrace farming.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	None.
Cultural services	None.

### E. Restoration/Management

Structural management	Afforestation.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

## 7. Uttare Pokhari

Code: P1-D3-007

Topo sheet no: 2688 – 01 A

Date of inventory:



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26° 56' 53.20"N; <u>Lon</u> : 88° 01'13.00" E; <u>Alt</u> : 2,060 masl.
Geographical position	Mahabharat Range.
Administrative feature	EDR; Ilam district; NayaBazar VDC; Ward No. 4,8 (Currently: Maijogmai Rural Municipality, Ward No. 1); <i>NayaBazar</i> .
Boundary	<u>Core Area</u> : Natural dam and Forest in all directions. <u>Basin Area</u> : Nayabazar-Gopeni road in west; Lalikharka-Nayabazar trail in east; Sparse Forestland grassland in south and north.
Management responsibility	Uttare Community Forest.
Wetlands type	Fresh water/natural; Palustrine; Emerget.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 31 <sup>0</sup> C (Jun/July); <u>Avg. Min Temp</u> : 5 <sup>0</sup> C (Dec) (DDC Profile 2006); <u>Rainfall</u> : 2500 mm/yr (With reference to <a href="http://www.slideshare.net/RajKumarAdhikari">www.slideshare.net/RajKumarAdhikari</a> ).
Area	<u>Core Area</u> : 0.4 ha; Avg. Length: 70; Avg. Width: 40; Avg. Depth: 4 m; Max–Min Surface Water Level: 5-3 m; <u>Basin Area</u> : 6.6 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 18 <sup>0</sup> C; pH: 6; Transparency: 0.4 m.
Soil feature	Grey color; Silty clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Nymphaea sp.</i> (LN: Kamal; EN: Water Lily; HT: Ff; LU: Orn).
Major plants in basin	<i>Bambusasp.</i> (LN: Bans; HT: Gr; LU: Handicraft); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm, Ful); <i>Rhododendron arboreum</i> (LN: Gurans; HT: Tr, LU: Ful); <i>Castanopsis indica</i> (LN: Katus; HT: Tr; LU: Fr, Ful); <i>Edgeworthia gardneri</i> (LN: Argale; HT: Sh; LU: local paper); <i>Eurya acuminata</i> (LN: Jhigane; HT: Tr; LU: Fd, Ful); <i>Symplocos ramosissima</i> (LN: Kharane; HT: Tr; LU: Fd, Ful); <i>Berberis sp.</i> (LN: Chutro; HT: Sh; LU: Juice); <i>Schisandra grandiflora</i> (LN: Singate; HT: Tr; LU: Fd, Ful); <i>Castanopsis hystrix</i> (LN: Paatile; HT; LU: Fr, Ful).
Fish	<i>Cetanharyngodon idella</i> (LN: Carp; LU: Meat); <i>Carassius carassius</i> (EN: Red Fish).
Herpetofauna	<i>Amolops sp.</i> (LN: Bhyaguto; EN: Frog); <i>Tylotriton varrucosus</i> (LN: Thakthake; EN: Himalayan Newt).

Birds	<i>Lophura leucomelanos</i> (LN: Kalij; EN: Kaliz Pheasant); <i>Treron sphenura</i> (LN: Haleso; EN: Green pigeon); <i>Apus</i> sp. (LN: Gauthali; EN: Swift); <i>Milvus migrans</i> sp. (LN: Chil; EN: Black kite); <i>Anas</i> sp. (LN: Pani Haans; EN: Water Duck).
Mammals	<i>Muntiacus muntjak</i> (LN: Mirga; EN: Barking Deer); <i>Dremomys</i> sp. (LN: Lokharke; EN: Squirrel); <i>Ailurus fulgens</i> (LN: Habre; EN: Redpanda); <i>Martes flavigula</i> (LN: Malsapro; EN: Marten).
Invasive alien species	None.
Endemic plant/animal	<u>Animal</u> : <i>Tylototriton varrucosus</i> (LN: Thakthake; EN: Himalayan newt).

### C. Socio-Economy at Basin

Nearby settlement	<i>NayaBazar</i> ; 1 Km from lake; Main Trail: Fikal–Namsaling road–Nayabazzar; 500 m from trail to lake.
Land use	Forestland (25%); Shrub (10%); Grassland (5%); Agriculture (40%); Settlement (15%); Wetlands (1%); Others (4%).
Demography	Population: 215; Male: 110; Female: 105; HHs: 43; Ethnicity: Brahmin/Chhetri (30%); Janajati (55%); Dalit (2%)Other (13%); Major Religion: Hinduism/Buddhism. (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>400 no.
Traditional production system	Terrace farming.
Traditional water use practices	Stone spout.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock and wild animals; Fodder; Fuelwood; NTFPs.
Cultural services	Aesthetic.

### E. Restoration/Management

Structural management	Dams; Afforestation.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

Occasional visitors; No tourism potential.

### G. Lake condition

Degrading.

Note: People responded for the occurrence of Himalayan Newt from this lake; Needs further investigation.



## Annex-7: Inventory of lakes in Jhapa district

### 1. Arjundhara

Code: P1-D4-001

Topo sheet no: 2687 – 08 B

Date of inventory: June 16, 2012



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°41'07.66" N; <u>Lon</u> : 87°59'17.65" E; <u>Alt</u> : 153 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Arjundhara VDC; Ward No. 4 (Currently: ARjundhara Municipality, Ward No. 5); <i>Arjundhara</i> .
Boundary	<u>Core Area</u> : Arjundhara temple area in all directions. <u>Basin Area</u> : Khudunbari-Arjundhara-Kanchanbari road in west; Birtamod-Sanischara road in east; Agricultural land in south; Jayapurchowk-Arjundhara road in north.
Management responsibility	Arjundhara Management Committee.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 42° C; <u>Avg. Min. Temp</u> : 10° C; <u>Rainfall</u> : 2000 mm/yr. <u>Avg. Max Temp.</u> : 42° C; <u>Avg. Min Temp.</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr (www.rapnepal.com/district/district-profile-4).
Area	<u>Core Area</u> : 0.1 ha; Avg. Length: 50 m; Avg. Width: 20 m; Avg. Depth: 1 m; Max–Min Surface Water Level: 2.5–1.5 m; <u>Basin Area</u> : 9 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Small drainage; Outlet: Drainage in south.
Water quality	<u>Physicochemical parameter</u> : Temp.: 27° C; pH: Slightly acidic; Transparency: 0.3 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Nelumbo nucifera</i> ; (LN: Kamal; HT: Ff; LU: Rel, Orn) <i>Nymphaea sp.</i> (LN: Seto Kamal; HT: Ff; LU: Rel, Orn).
Major plants in basin	<i>Dalbergia sisso</i> (LN: Sisau; HT: Tr; LU: Tm, Ful); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fr); <i>Bambusa sp.</i> (LN: Bans; HT: Gr; LU: Fd).
Fish	<i>Punticus sp.</i> (LN: Pothi; LU: Meat); <i>Channa sp.</i> (LN: Hile; LU: Meat).

Herpetofauna	<i>Hoplobatrachus sp.</i> (LN: Bhyaguta; EN: Bullfrog); <i>Hemidactylus sp.</i> (LN: Mausuli; EN: Wall Lizard).
Birds	<i>Bulbulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Ardeola grayii</i> (LN: Bakulla; EN: Pond Heron); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow); <i>Pycnonotus sp.</i> (LN: Jureli; EN: Bulbul); <i>Amaurornis phoenicurus</i> (LN: Sim Kukhura; EN: Whitebreasted Waterhen).
Mammals	<i>Mus sp.</i> (LN: Muso; EN: Rat).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Sanischare Bazar</i> ; 500 m from lake; Main Trail: Birtamod–Sanischare–Arjunthara; About 6 Km from Birtamode to lake.
Land use	Shrubland (5%); Grassland (5%); Agriculture (50%); Settlement (30%); Wetland (5%); Other (5%).
Demography	Population: 200; Male: 108; Female: 92; HHs: >40; Ethnicity: Brahmin/Chhetri (60%); Janajati (20%); Dalit (10%); Other (10%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>80 no.
Traditional production system	Traditional paddy farming in south of lake.
Traditional water use practices	None.
Cultural record	Temple of Siva at the shore and one Sanskrit school.
Genesis/origin of lake	<i>Arjuna</i> amongst <i>Pandava</i> of Mahabharat period created water fountain for <i>Bhisma Pitamaha</i> who was in death seat. Another story: <i>Arjuna</i> while herding cows once felt for thirsty arrowed down to the ground for water hole which created water fountain so named after his name the <i>Arjunthara</i> .

### D. Ecosystem Goods/Services

Provisional services	Irrigation at downstream crop field.
Cultural services	Religious and educational services; Fair during the <i>Balacahaturdashi</i> and <i>Siva Ratri</i> .

### E. Restoration/Management

Structural management	Dam; Cultural buildings for religious performances with collective fund from donation from local citizens; Few plantation in the south.
None-structural management	Informal restriction for pollution especially garbage disposal.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

>200,000 annual visitors (religious); Moderate access to transportation; Good accommodation facilities in Birtamod (about 6 Km in the south). Moderate tourism potential; Need religious tourism marketing and infrastructure improvement.

### G. Lake condition

Degrading.

## 2. Arna Khadi

Code: P1-D4-002

Topo sheet no: 2687 – 07 B

Date of inventory: May 31, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°38'50.1" N; <u>Lon</u> : 87°39'11.8" E; <u>Alt</u> : 118 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Damak Municipality; Ward No. 16 (Currently: Damak Municipality, Ward No. 4); <i>Sano ArnaKhandi</i> .
Boundary	<u>Core Area</u> : Agricultural land in all directions. <u>Basin Area</u> : Betani river in west; Chiyadokan chowk-Arnakhadi-Dhankutetol road in east; Tea garden in north; Dhankutetol-Sano Arnakhadi road in south.
Management responsibility	Dhimal community.
Wetlands type	Fresh water/natural; Palustrine; Emergent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 42° C; <u>Avg. Min Temp</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr (www.rapnepal.com/district/district-profile-4).
Area	<u>Core Area</u> : 1.0 ha; Avg. Length: 125 m Avg. Width: 40 m; Avg. Depth: 0.5 m; Max-Min Surface Water Level: 2-0.5 m; <u>Basin Area</u> : 22.8 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 27° C; pH: Acidic; Transparency: 0.35 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	Exposed to high eutrophication.
Major aquatic plants	<u>Core Area</u> : <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Ff; LU: Wild food); <i>Polygonumhydropiper</i> (LN: Pire Jhar; HT: Em; LU: None); <i>Ipomoea carnea</i> sp. <i>fistulosa</i> (LN: Besharma; HT: Em; LU: None).
Major plants in basin	<i>Dalbergia sisso</i> (LN: Sisau; HT: Tr; LU: Tm); <i>Bambusasp.</i> (LN: Bans; HT: Gr; LU: Fd); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fr); <i>Mimosa pudica</i> (LN: Lajawanti; HT: Hr); <i>Oxalis corniculata</i> (LN: Chari amili; HT: Hr; LU: Med); <i>Oryza sativa</i> (LN: Dhan; HT: Hr; LU: Food).
Fish	<i>Punticus sp.</i> (LN: Pothi; LU: Meat); <i>Channasp.</i> (LN: Hile; LU: Meat); <i>Monopterus cuchia</i> (LN: Bam; LU: Meat); <i>Ctenoharyngdon idella</i> (LN: Carp; LU: Meat); <i>Oreochromissp.</i> (LN: Tilapia; LU: Meat); <i>Clupisoma garua</i> (LN: Jal Kapur; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat).

Herpetofauna	<i>Xenocrophissp.</i> (LN: Pani Sarpa; EN: Keelback snake); <i>Rana sp.</i> (LN: Bhyaguta); <i>Bufosp.</i> (LN: Khasre Bhyaguto; EN: Toad); <i>Naja naja</i> (LN: Goman; EN: King cobra).
Birds	<i>Vanellus indicus</i> (LN: Hutetau; EN: Red-wattled lapwing); <i>Amaurornis phoenicurus</i> (LN: Simkukhura; EN: White breasted Waterhen); <i>Anhinga melanogaster</i> (LN: Suiro thude; EN: Dartar); <i>Ardeola grayii</i> (LN: Bakulla; EN: Pond Heron); <i>Bubulcus ibis</i> (LN: Bakulla; EN: Cattle Egret).
Mammals	<i>Mussp.</i> (LN: Muso; EN: Rat). No large mammals.
Invasive alien species	<i>Mikania micrantha</i> (LN: Lahare Banmara; EN: Bitter Vine); <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth); <i>Mimosa pudica</i> (LN: Lajjawanti Jhar; EN: Touch-me-not plant; Humble plant); <i>Bidens</i> sp (LN: Kuro; EN: Cobbler's peg).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Sano Arna Khandi</i> ; 50 m; Main Trail: Damak-Chiya Dokan Chowk–Sano Arna Khadi; 20 m from trail to lake.
Land use	Shrubland (10%); Grassland (10%); Agriculture (50%); Settlement (20%); Wetland (5%); Others (5%).
Demography	Population: 200; Male: 90; Female: 110; HHs: 40; Ethnicity: Brahmin/Chhetri (15%); Janajati (80%); Dalit (5%); Major Religion: Hinduism.
Jurisdiction/ownership	Private.
Wetlands dependent community	Dhimal community, >100 hh.
Livestock at basin	>80 no.
Traditional production system	Traditional Paddy cultivation; Traditional fishery.
Traditional water use practices	Farmer managed local canal and <i>Holi</i> .
Cultural record	None.
Genesis/origin of lake	Many years ago Arna (wild bufallow used to found here so named as the <i>Arna Khadi</i> ; Used to be the play ground of wild bufallow.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock; Fish supply.
Cultural services	None.

### E. Restoration/Management

Structural management	Dams.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors. No tourism potential

**G. Lake condition** Degrading.

### 3. Banyani Bandh

Code: P1-D4-003

Topo sheet no: 2687 – 08 A

Date of inventory: June 9, 2012



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°37'49.74" N; <u>Lon</u> : 87°48'08.47" E; <u>Alt</u> : 123 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Satashidham VDC; Ward No. 9; <i>Dudamarivillage</i> .
Boundary	<u>Core Area</u> : Foot trail in east; Agricultural land in west, north and south. <u>Basin Area</u> : Milchok-Dudamarigau in west; Thechambu-Yasok road in east; Cultivation land in south; Mahendra highway in north.
Managementresponsibility	Community.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 42° C; <u>Avg. Min Temp</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr ( <a href="http://www.rapnepal.com/district/district-profile-4">www.rapnepal.com/district/district-profile-4</a> ).
Area	<u>Core Area</u> : 0.6 ha; Avg. Length: 150 m; Avg. Width: 100 m; Avg. Depth: 2 m; Max–Min Surface Water Level: 3–2 m; <u>Basin Area</u> : 44.9 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Katahare bandh, Pagari bandh; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 27° C; pH: 5.5; Transparency: 0.35 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	Exposed to eutrophication.
Major aquatic plants	<u>Core Area</u> : <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Ff; LU: Wild food); <i>Hydrilla verticillata</i> (LN: Namle Ghaans; HT: Sm; LU: Fd).
Major plants in basin	<i>Eupatoriumsp.</i> (LN: Banmara; HT: Hr; LU: Fertilizer); <i>Imperata cylindrica</i> (LN: Siru; HT: Hr; LU: Fd); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fr); <i>Dalbergia sisso</i> (LN: Sisau; HT: Tr; LU: Tm, Ful).
Fish	<i>Punticussp.</i> (LN: Pothi; LU: Meat); <i>Channasp.</i> (LN: Hile; LU: Meat); <i>Monopterus cuchia</i> (LN: Bam; LU: Meat); <i>Clarisasp.</i> (LN: Mungri; LU: Meat).
Herpetofauna	<i>Hoplobatracus sp.</i> (LN: Bhyaguta; EN: Bullfrog); <i>Bufosp.</i> (LN: Khasre bhyaguto; EN: Toad); <i>Xenocrophissp.</i> (LN: Pani Sarpa; EN: Keelback snake)
Birds	<i>Bulbulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Ardeola greayii</i> (LN: Bakulla; EN: Pond Heron); <i>Gracula religiosa</i> (LN: Mynah;

EN: Hill Myna); *Amaurornis phoenicurus* (LN: Sim Kukhura; EN: White breasted Waterhen); *Streptopelia chinensis* (LN: Dhukur; EN: Spotted Dove).

Mammals	None.
Invasive alien species	<u>Plants</u> : <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth); <u>Animals</u> : <i>Achatina fulica</i> (LN: Chiple Kira; EN: Snail).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Dudamari Gaun</i> ; 100 m from lake; Main Trail: Dudamari Chowk-Dudamari Gaon; 100 m from lake (1.5 Km from Dudamari Chowk).
Land use	Grassland (10%); Agriculture land (80%); Settlement (5%); Wetland (5%).
Demography	Population: 110; Male: 60; Female: 50; HHs: 30; Ethnicity: Brahmin/Chhetri (50%); Janajati (40%); Dalit (2%); Others (8%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>100 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed local canals.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigation.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

#### 4. Dadagaun Bandh

Code: P1-D4-004

Topo sheet no: 2687 – 08 A

Date of inventory: June 2, 2012



##### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°38'09" N; <u>Lon</u> : 87°47'38.49" E; <u>Alt</u> : 124 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Dharampur VDC; Ward No. 9 (Currently: Shivasatakschi Municipality, Ward No. 1); <i>Dadagaun</i> .
Boundary	<u>Core Area</u> : Foot trail from Dudamari chowk to lakein east; Agricultural land in west, north and south. <u>Basin Area</u> : Milchok-Dadagaun-Sukrabare road in west; DudhamariKholshi in east; Cultivation land in south; Mahendra highway in north.
Managementresponsibility	Community.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

##### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 42° C; <u>Avg. Min Temp.</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr (www.rapnepal.com/district/district-profile-4).
Area	<u>Core Area</u> : 0.6 ha; Avg. Length: 140 m Avg. Width: 50 m; Avg. Depth: 1 m; Max–Min Surface Water Level: 2–1 m; <u>Basin Area</u> : 15.4 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Dudamari Bandh-I; Outlet: Dudamari Bandh-II.
Water quality	<u>Physicochemical parameter</u> : Temp.: 28° C; pH: Slightly acidic; Transparency: 0.2 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Ff; LU: Wild food).
Major plants in basin	<i>Bambusasp.</i> (LN: Bans; HT: Gr; LU: Fd); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fr); <i>Dalbergia sisso</i> (LN: Sisau; HT: Tr; LU: Tm, Ful).
Fish	<i>Punticus sp.</i> (LN: Pothi; LU: Meat); <i>Channasp.</i> (LN: Hile; LU: Meat); <i>Monopterus cuchia</i> (LN: Bam; LU: Meat); <i>Ctenoharyngdon idella</i> (LN: Carp; EN: Grass carp; LU: Meat); <i>Clupisoma garua</i> (LN: Jal Kapur; LU: Meat).
Herpetofauna	<i>Xenocrophispiscator</i> (LN: Pani Sarpa; EN: Keelback snake); <i>Ranasp.</i> (LN: Bhyaguta; EN: Frog); <i>Bufosp.</i> (LN: Khasre

	Bhyaguto; EN: Toad); <i>Calotes versicolor</i> (LN: Chheparo; EN: Common Garden lizard).
Birds	<i>Bulbulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Ardeola grayii</i> (LN: Bakulla; EN: Pond Heron); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow).
Mammals	<i>Mus sp.</i> (LN: Muso; EN: Rat); No large mammals observes since many years.
Invasive alien species	<u>Plant</u> : <i>Mikania sp.</i> (LN: Lahare Banmara; EN: Bitter Vine), <u>Animal</u> : <i>Achatina fulica</i> (LN: Chiple Kira; EN: Snail).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Dadagaun</i> ; 200 m from lake; Main Trail: Dudamari-Dadagaon; 200 m from trail to lake (700 m from Dudamari).
Land use	Agriculture (80%); Settlement (10%); Wetland (18%); Others (2%).
Demography	Population: 200; Male: 90; Female: 110; HHs: 45; Ethnicity: Brahmin/Chhetri (21%); Janajati (75%); Dalit (2%); Others (2%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>100 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers manage irrigation canal (1).
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigation in over 40 ha; Water for livestock; Fishery; Bamboo for handicrafts.
Cultural services	None.

### E. Restoration/Management

Structural management	Dam.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Good.



## 5. Deunia Khadi

Code: P1-D4-005

Topo sheet no: 2688 – 09 A

Date of inventory: June 12, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°23'26.75" N; <u>Lon</u> : 88°01'53.13" E; <u>Alt</u> : 64 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Kechana VDC; Ward No. 8 (Currently: Kachnkabal Municipality, Ward No. 4); Poklaban
Boundary	<u>Core Area</u> : Agricultural land in all directions. <u>Basin Area</u> : Mechi river in east; Pokallaban village in west; Cultivation land and Maralbasti in south; Mechi highway and Kechana Bazar in north.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Riverine; Perennial.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 42° C; <u>Avg. Min Temp</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr (www.rapnepal.com/district/district-profile-4).
Area	<u>Core Area</u> : 1.5 ha; Avg. Length: 100 m; Avg. Width: 40 m; Avg. Depth: 2 m; Max–Min Surface Water Level: 3–1 m; <u>Basin Area</u> : 58.4 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Small Drainage towards east; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 27° C; pH: Slightly acidic; Transparency: 0.3 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Ff).
Major plants in basin	<i>Bambusasp.</i> (LN: Bans; HT: Gr; LU: Log); <i>Oryza sp.</i> (LN: Dhan; HT: Hr; LU: Food).
Fish	<i>Punticussp.</i> (LN: Pothi; LU: Meat); <i>Channasp.</i> (LN: Hile; LU: Meat); <i>Monopterus cuchia</i> (LN: Bam; LU: Meat); <i>Ctenoharyngdon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat).
Herpetofauna	<i>Hoplobatracus sp.</i> (LN: Bhyaguta; EN: Bullfrog); <i>Bufo sp.</i> (LN: Khasre Bhyaguto; EN: Toad); <i>Varanus bengalensis</i> (LN: Gohoro; EN: Monitor lizard); <i>XenocrophispisCator</i> (LN: Pani Sarpa; EN: Keelback snake).

Birds	<i>Bulbulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Ardeola grayii</i> (LN: Bakulla; EN: Pond Heron); <i>Leptoptilos sp.</i> (LN: Gadur; EN: Adjutant); <i>Amaurornis phoenicurus</i> (LN: Sim Kukhura; EN: White Breasted Waterhen).
Mammals	<i>Mus sp.</i> (LN: Muso; EN: Rat); No large mammals.
Invasive alien species	<i>Eupatoriumsp.</i> (LN: Banmara; EN: Thogoughwort); <i>Eichhornia crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth); <i>Bidensp.</i> (LN: Kuro; EN: Cobbler's Peg).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Pokallaban</i> ; 500 m from lake; Main Trail: Kechana Bazar-Pharkagachhi-Pokallaban; 500 m from trail to lake (4 Km from Kechana Bazaar).
Land use	Shrubland (5%); Agriculture (75%); Settlement (10%); Wetland (5%); Other (5%).
Demography	Population: 100; Male: 56; Female: 44; HHs: 23; Ethnicity: Brahmin/Chhetri (20%); Other (80%); Major Religion: Hinduism.
Jurisdiction/ownership	Community.
Wetlands dependent community	None.
Livestock at basin	>75 no.
Traditional production system	Traditional paddy cultivation; Traditional fish farming.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigation approx 50 ha; Water for livestock; Fishery; Fodder; Bamboo for handicraft.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

## 6. Devi Paini

Code: P1-D4-007

Topo sheet no: 2688 – 09 A

Date of inventory: June 11, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°29'07.82" N; <u>Lon</u> : 88°02'53.19" E; <u>Alt</u> : 100 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Prithvinagar VDC; Ward No. 3 (Currently: Bhadrapur Municipality, Ward No. 2); <i>Bishalpur</i>
Boundary	<u>Core Area</u> : Forest in all directions. <u>Basin Area</u> : Mixed forest in west and north; Gaurishankar-Bishalpur trail in east; Bishalpur-Jalthal trail in south.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Palustrine; Emergent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 42° C; <u>Avg. Min Temp</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr ( <a href="http://www.rapnepal.com/district/district-profile-4">www.rapnepal.com/district/district-profile-4</a> ).
Area	<u>Core Area</u> : 0.5 ha; Avg. Length: 200 m; Avg. Width: 50 m; Avg. Depth: 0.5 m; Max–Min Surface Water Level: 1–0.5 m; <u>Basin Area</u> : 243 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 27° C; pH: 7; Transparency: 0.25 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	Exposed to eutrophication; Invaded by macrophytes.
Major aquatic plants	<u>Core Area</u> : <i>Hydrilla verticillata</i> (LN: Namle Ghaans; HT: Sm; LU: Fd). <i>Paspalum distichum</i> (LN: Mane Banso; HT: Em; LU; Fd.); <i>Ipomea carnea ssp. fistulosa</i> (LN: Besharam; HT: Hr; LU: None).
Major plants in basin	<i>Ageritina adenophora</i> (LN: Banmara; HT: Hr; LU: Fertilizer); <i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm, Ful); <i>Bambusa sp.</i> (LN: Bans; HT: Gr; LU: Log); <i>Dalbergia sisso</i> (LN: Sisau; HT: Tr; LU: Tm, Ful).
Fish	<i>Channa sp.</i> (LN: Hile; LU: Meat).
Herpetofauna	<i>Hoplobatrachus sp.</i> (LN: Bhyaguta; EN: Bullfrog).
Birds	<i>Acridotheres sp.</i> (LN: Ruppi; EN: Starling); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow); <i>Gracula religiosa</i> (LN: Mynah; EN: Hill Myna).
Mammals	No large mammals observed since many years.
Invasive alien species	<i>Eupatorium sp.</i> (LN: Banmara; EN: Thoroughwort).

Endemic plant/animal                      None.

### **C. Socio-Economy at Basin**

Nearby settlement                      *Bishalpur*; 1 Km from lake; Main Trail: Mechi Highway-Bishalpur; 2Km from trail to lake.

Land use                                      Forestland (85%); Grassland (7%); Settlement (5%); Wetland (3%).

Demography                                Population: 50; Male: 27; Female: 23; HHs: 10; Ethnicity: *Brahmin/Chhetri* (30%); *Janajati* (30%); *Dalit* (20%); Major Religion: Hinduism.

Jurisdiction/ownership                Community.

Wetlands dependent community      None.

Livestock at basin                        >80 no.

Traditional production system        Traditional paddy farming.

Traditional water use practices       Farmers managed local canal called *Paini*.

Cultural record                            None.

Genesis/origin of lake                 None.

### **D. Ecosystem Goods/Services**

Provisional services                    Irrigation; Fish supply.

Cultural services                         None.

### **E. Restoration/Management**

Structural management                None.

None-structural management        None.

Conservation plan                        None.

Monitoring plan                         None.

**F. Tourism information**              No visitors; No tourism potential.

**G. Lake condition**                      Degraded.

## 7. Dhamala Bandh

Code: P1-D4-007

Topo sheet no: 2687 – 08 A

Date of inventory: June 23, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°38'18.32" N; <u>Lon</u> : 87°48'02.11" E; <u>Alt</u> : 130 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Satashidham VDC; Ward No. 3; Buddha Chowk.
Boundary	<u>Core Area</u> : Agricultural land in all directions. <u>Basin Area</u> : Samjhanachok-Dudhamarigau road in west; Thechambu-Yasok road in east; Cultivation land in south; Mahendra highway in north.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 42° C; <u>Avg. Min Temp</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr (www.rapnepal.com/district/district-profile-4).
Area	<u>Core Area</u> : 0.2 ha; Avg. Length: 100 m; Avg. Width: 50 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 2.5 –1 m; <u>Basin Area</u> : 44.9 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: Katahare Bandh.
Water quality	<u>Physicochemical parameter</u> : Temp.: 27° C; pH: 7; Transparency: 0.25 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Eichornia crassipes</i> (LN: Jalkhumbi; HT: Ff; LU: None); <i>Polygonum hydropiper</i> (LN: Pire Jhar; HT: Em; LU: None); <i>Hydrilla verticillata</i> (LN: Namle Jhar; HT: Sm; LU: None); <i>Vallisneria natans</i> (LN: Phulke; HT: Sm; LU: None).
Major plants in basin	<i>Imperata cylindrica</i> (LN: Siru; HT: Gr; LU: Fd); <i>Mangifera indica</i> (LN: Aanpa; HT: Tr; LU: Fr); <i>Bambusa</i> spp. (LN: Bans; HT: Hr; LU: Fd); <i>Oryza sativa</i> (Paddy; HT: Hr; LU: Food).
Fish	<i>Punticus</i> sp. (LN: Sidra; LU: Meat); <i>Channasp.</i> (LN: Hile; LU: Meat); <i>Clarias batrachus</i> (LN: Mungri; LU: Meat).
Herpetofauna	<i>Hoplobatrachus</i> sp. (LN: Bhyaguta; EN: Bullfrog); <i>XenocrophispisCator</i> (LN: Pani Sarpa; EN: Keelback Snake).
Birds	<i>Acridotheressp.</i> (LN: Mynah; EN: Starling); <i>Ardeola grayii</i> (LN: Bakulla; EN: Pond Heron); <i>Bubulcus ibis</i> (LN: Bakulla; EN: Cattle

	Egret); <i>Amaurosuis phoenicurus</i> (LN: Sim Kukhura; EN: White Breasted Waterhen).
Mammals	No large mammals.
Invasive alien species	<u>Plant</u> : <i>Eichhornia crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth); <i>Mikania</i> sp. (LN: Lahare Banmara; EN: Bitter Vine; American roap).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Buddha Chowk; 300 m from lake; Main Trail: Dudamari Chowk-Buddha Chowk; 300 m from Buddha Chowk to lake (500 m from Dudamari Chowk).
Land use	Agriculture (85%); Settlement (10%); Wetland (5%).
Demography	Population: 150; Male: 80; Female: 70; HHs: 40; Ethnicity: Brahmin/Chhetri (50%); Janajati (40%); Dalit (2%); Other (7%); Major Religion: Hinduism.
Jurisdiction/ownership	Community.
Wetlands dependent community	None.
Livestock at basin	>100 No.
Traditional production system	Traditional paddy cultivation; Traditional fishery.
Traditional water use practices	Farmers managed irrigation canal.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Water for livestock; Fish supply.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

## 8. Dhanusha Pokhari

Code: P1-D4-008

Topo sheet no: 2687 – 08 D

Date of inventory: June 16,  
2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°32'39.50" N; <u>Lon</u> : 87°59'09.90" E; <u>Alt</u> : 64 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Jalthal VDC; Ward No. 8 (Currently: Haldibari Rural Municipality, Ward No. 5); <i>Dhanusha</i> .
Boundary	<u>Core Area</u> : Foot trail and natural embankment in all directions. <u>Basin Area</u> : Bhuteni khola in west; Haldibari-Dhanusapokhari-Bahundhoka road in east; Mangalbare-Dhadharpada-Dhanusapokhari road in south; Kajali-Bhulkadhap road in north.
Management responsibility	None.
Wetlands type	Fresh water/natural; Palustrine; Emergent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 42° C; <u>Avg. Min Temp</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr (www.rapnepal.com/district/district-profile-4).
Area	<u>Core Area</u> : 0.9 ha; Avg. Length: 100 m; Avg. Width: 90 m; Avg. Depth: 2 m; Max–Min Surface Water Level: 4–1 m; <u>Basin Area</u> : 67.1 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 27° C; pH: 7.5; Transparency: 0.2 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	Eutrophication; Invasion of macrophytes.
Major aquatic plants	<u>Core Area</u> : <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Ff) <i>Nelumbo nucifera</i> (LN: Rato Kamal; HT: Ff; LU: Ornamental).
Major plants in basin	<i>Dalbergia sisso</i> (LN: Sisau; HT: Tr; LU: Tm, Ful); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fr).
Fish	<i>Puntius</i> sp. (LN: Pothi; LU: Meat); <i>Channa</i> sp. (LN: Hile; LU: Meat); <i>Monopterus albus</i> (LN: Bam; LU: Meat).
Herpetofauna	<i>Rana</i> sp. (LN: Bhyaguta; EN: Frog); <i>Bufo</i> sp. (LN: Khasre Bhyaguto; EN: Toad); <i>Xenocrophispiscator</i> (LN: Pani Sarpa; EN: Keelback Snake).
Birds	<i>Bulbulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Ardeola grayii</i> (LN: Bakulla; EN: Pond Heron); <i>Gracula religiosa</i> (LN: Mynah; EN: Hill

	Mmyna); <i>Amaurornis phoenicurus</i> (LN: Sim Kukhura; EN: Whitebreasted Waterhen).
Mammals	No large mammals.
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Dhanusha; 100 m from lake; Main Trail: Birtamod-Anarmani-Sainik Bazar-Gholdhap road-Dhanusha Pokhari; 100 m from trail to lake (About 15 Km from Birtamod).
Land use	Agriculture (80%); Settlement (10%); Wetland (5%); Other (5%).
Demography	Population: 150; Male: 80; Female: 70; HHs: 19; Ethnicity: Brahmin/Chhetri (20%); Janajati (75%); Dalit (1%); Other (4%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>80 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigating water supply; Traditional fish production.
Cultural services	None.

### E. Restoration/Management

Structural management	Dam.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.



## 9. Dudamari Bandh-I

Code: P1-D4-009

Topo sheet no: 2687 – 08 A

Date of inventory: June 4, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°38'33.38" N; <u>Lon</u> : 87°47'52.91" E; <u>Alt</u> : 133 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Satashidham VDC; Ward No. 1; <i>DudamariChowk</i> .
Boundary	<u>Core Area</u> : Forestland Swamp area in all directions. <u>Basin Area</u> : Forest in west, east and north; Mahendra highway in south.
Managementresponsibility	Community.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 42° C; <u>Avg. Min Temp.</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr ( <a href="http://www.rapnepal.com/district/district-profile-4">www.rapnepal.com/district/district-profile-4</a> ).
Area	<u>Core Area</u> : 0.7 ha; Avg. Length: 200 m Avg. Width: 50 m Avg. Depth: 2 m; Max–Min Surface Water Level: 3–2 m; <u>Basin Area</u> : 137.7 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: Dadagaun Bandh II.
Water quality	<u>Physicochemical parameter</u> : Temp.: 27° C; pH: 7; Transparency: 0.5 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Ff; LU: Wild food).
Major plants in basin	<i>Eucalyptus sp.</i> (LN: Masala; HT: Tr; LU: Carpet, Oil).
Fish	<i>Punticus sp.</i> (LN: Pothi; LU: Meat); <i>Channasp.</i> (LN: Hile; LU: Meat); <i>Monopterus cuchia</i> (LN: Bam; LU: Meat).
Herpetofauna	<i>Xenocrophispiscator.</i> (LN: Pani Sarpa; EN: Keelback snake); <i>Rana sp.</i> (LN: Bhyaguta; EN: Frog); <i>Bufosp.</i> (LN: Khasre Bhyaguto; EN: Toad).
Birds	<i>Bulbulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Ardeola grayii</i> (LN: Bakulla; EN: Pond Heron); <i>Gracula religiosa</i> (LN: Mynah; EN: Hill Myna).
Mammals	<i>Macaca mullatta</i> (LN: Bandar; EN: Rhesus Monkey).

Invasive alien species	<u>Plants:</u> <i>Bidens sp.</i> (LN: Kuro; EN: Cobbler's Peg); <u>Animals:</u> <i>Achatina fulica</i> (LN: Sankhe Kira; EN: Snail).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Dudamari Chowk; 400 m from lake; Main Trail: Dudamari Chowk to straight northward; 400 m from Dudamari Chowk to lake.
Land use	Forestland (85%), Grassland (10%), Wetland (5%).
Demography	Population: 100; Male: 55; Female: 45; HHs: 30; Ethnicity: Brahmin/Chhetri (40%); Janajati (50%); Dalit (2%); Others (8%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>80 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Water for livestock; Fishery.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Good.

## 10. Dudamari Bandh-II

Code: P1-D4-010

Topo sheet no: 2687 – 08 A

Date of inventory: June 8,  
2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°37'47.47" N; <u>Lon</u> : 87°47'46.32" E; <u>Alt</u> : 124 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Satashidham VDC; Ward No. 1; <i>Kunwar Tol</i> .
Boundary	<u>Core Area</u> : Cultivation land in all direction. <u>Basin Area</u> : Milchok-Sukrabare trail in west; Thechambu-Yasok trail in east; Sellement of Dadagaun in south; Mahendra highway in north.
Management responsibility	<i>Bandh Samrakshan Samiti</i> .
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 42° C; <u>Avg. Min Temp</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr (www.rapnepal.com/district/district-profile-4).
Area	<u>Core Area</u> : 0.8 ha; Avg. Length: 400 m Avg. Width: 50 m Avg. Depth: 2 m; Max–Min Surface Water Level: 3–2 m; <u>Basin Area</u> : 28.6 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Dadagaun Bandh; Outlet: Dudamari Khola.
Water quality	<u>Physicochemical parameter</u> : Temp.: 27° C; PH:7 Transparency: 0.3 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Ff; LU: Wild food); <i>Polygonum hydropiper</i> (LN: Pire Jhar; HT: Em; LU: Fish Poisoning); <i>Hydrilla verticillata</i> (LN: Namle Ghaans; HT: Sm; LU: Fd); <i>Imperata cylindrica</i> (LN: Siru; HT: Em; LU: Forage).
Major plants in basin	<i>Bambusasp.</i> (LN: Bans; HT: Gr; LU: Fd); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fr); <i>Dalbergia sisso</i> (LN: Sisau; HT: Tr; LU: Tm, Ful); <i>Oryza sativa</i> (LN: Dhan; HT: Hr; LU: Food); <i>Mikaniamicrantha</i> (LN: Lahare Banmara; HT: Hr; LU: None).
Fish	<i>Punticussp.</i> (LN: Pothi; LU: Meat); <i>Channa sp.</i> (LN: Hile; LU: Meat); <i>Clarisasbatrachus</i> (LN: Mungri; LU: Meat).
Herpetofauna	<i>Xenocrophissp.</i> (LN: Pani Sarpa; EN: Keelback snake); <i>Rana sp.</i> (LN: Bhyaguta; EN: Frog); <i>Bufosp.</i> (LN: Khasre Bhyaguto; EN: Toad).

Birds	<i>Bulbulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Ardeola grayii</i> (LN: Bakulla; EN: Pond Heron); <i>Gracula religiosa</i> (LN: Mynah; EN: Hill Myna).
Mammals	No large mammals observed since many years.
Invasive alien species	<u>Plants</u> : <i>Eupatorium</i> sp. (LN: Banmara; EN: Thoroughwort); <i>Eichhornia</i> sp. (LN: Jalkumbhi; EN: Water Hyacinth); <u>Animals</u> : <i>Achatina fulica</i> (LN: Chhiple Kira; En: Snail).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Kunwar Tol</i> ; 100 m from lake; Main Trail: Dudamari Chowk-Kunwar Tole; 1.5 Km from Dudamari Chowk tolake.
Land use	Agriculture land (85%); Settlement (5%); Wetland (5%); Other (5%).
Demography	Population: 200; Male: 100; Female: 100; HHs: 46; Ethnicity: Brahmin/Chhetri (70%); Janajati (25%); Dalit (3%); Others (2%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>100 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Fish supply.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

## 11. Indreni Tal

Code: P1-D4-011

Topo sheet no: 2687 – 07 D

Date of inventory: June 1, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°36'42.10" N; <u>Lon</u> : 87°39'25.90" E; <u>Alt</u> : 106 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Damak Municipality; Ward No. 19 (Currently: Damak Municipality, Ward No. 10); <i>Birendradagi</i>
Boundary	<u>Core Area</u> : Agricultural land in all directions. <u>Basin Area</u> : Mawa Khola in west; Dadatol-Birendragadi-Setumari road in east; Parewadagi village and Bhalukhola in south; Cultivation land and settlement of Birendradagi village in north.
Management responsibility	Private.
Wetlands type	Fresh water/natural; Palustrine; Emergent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 42° C; <u>Avg. Min Temp</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr (www.rapnepal.com/district/district-profile-4).
Area	<u>Core Area</u> : 0.6 ha; Avg. Length: 200 m Avg. Width: 50 m Avg. Depth: 3 m; Max-Min Surface Water Level: 4–1.5 m; <u>Basin Area</u> : 36.4 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Small stream; Outlet: Small drainage in south.
Water quality	<u>Physicochemical parameter</u> : Temp.: 27° C; PH: 6.5; Transparency: 0.45 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Ff; LU: Wild food); <i>Hydrilla verticillata</i> (LN: Namle Jhar; HT: Sm; LU: Fd).
Major plants in basin	<i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Tm); <i>Bambusasp.</i> (LN: Bans; HT: Gr; LU: Fd); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fr); <i>Eucalyptus sp.</i> (LN: Masala; HT: Tr; LU: Tm); <i>Anthocephalus chinensis</i> (LN: Kadam; HT: Tr; LU: Tm); <i>Mimosa pudica</i> (LN: Lajawanti; HT: Hr); <i>Oxalis corniculata</i> (LN: Chari amili; HT: Hr; LU: Med); <i>Oryza sativa</i> (LN: Dhan; HT: Hr; LU: Food).
Fish	<i>Punticus sp.</i> (LN: Pothi; LU: Meat); <i>Channasp.</i> (LN: Hile; LU: Meat); <i>Monopterus cuchia</i> (LN: Bam; LU: Meat); <i>Ctenoharyngdon idella</i> (LN: Carp; LU: Meat); <i>Oreochromissp.</i> (LN: Tilapia; LU: Meat).

Herpetofauna	<i>Xenocrophissp.</i> (LN: PaniSarpa; EN: Keelback Snake); <i>Rana sp.</i> (LN: Bhyagto; EN: Frog); <i>Bufosp.</i> (LN: Khasre Bhyaguto)
Birds	<i>Pycnonotussp.</i> (LN: Jureli); <i>Bulbulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Amaurornis phoenicurus</i> (LN: Sim Kukhura; EN: White Breasted Water hen); <i>Ardeolagraysii</i> (LN: Bakulla; EN: Pond Heron); <i>Phalacrocoraxsp.</i> (LN: Jalewa; EN: Cormorant).
Mammals	<i>Rattus rattus</i> (LN: Muso; EN: Rat); No large mammals since many years.
Invasive alien species	<i>Mikania micrantha</i> (LN: Lahare Banmara; EN: Bitter Vine); <i>Eichhorniasp.</i> (LN: Jalkumbhi; EN: Water Hyacinth); <i>Bidenssp.</i> (LN: Kuro; EN: Cobbler's Peg).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Birendradagi</i> ; 500 m from lake; Main Trail: Damak-Sano Arna Khadi-Birndradagi-Setumari trail; 500 m from trail to lake.
Land use	Shrubland (5%); Grassland (10%); Agriculture (55%); Settlement (15%); Wetland (5%); Others (10%).
Demography	Population: 100; Male: 55; Female: 45; HHs: 22; Ethnicity: Brahmin/Chhetri (50%); Janajati (30%); Dalit (10%); Others (10%); Major Religion: Hinduism.
Jurisdiction/ownership	Private.
Wetlands dependent community	None.
Livestock at basin	>80 no.
Traditional production system	Traditional paddy cultivation: Traditional fishery.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Water for irrigation; Fishery.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

## 12. Jamunkhadi

Code: P1-D4-012

Topo sheet no: 2687-08 B

Date of inventory: June 16, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°39'06.81" N; <u>Lon</u> : 87°54'47.86" E; <u>Alt</u> : 117 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Surunga VDC; Ward No. 2,3,4; <i>Jamunbari</i> .
Boundary	<u>Core Area</u> : Foot trail in all directions. <u>Basin Area</u> : Surunga khola in west; Prajapatigau-Jamunbari-Iluwabari road in east; Mahendra highway in south; Surunga-Jamunbari road in north.
Management responsibility	Jamun Khadi Community Forest.
Wetlands type	Fresh water/natural; Palustrine; Emergent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 42° C; <u>Avg. Min Temp</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr (www.rapnepal.com/district/district-profile-4).
Area	<u>Core Area</u> : 4.5 ha; Avg. Length: 300 m; Avg. Width: 200 m; Avg. Depth: 4 m; Max-Min Surface Water Level: 5-3 m; <u>Basin Area</u> : 215.4 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: South; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 26° C; pH: 6.5; Transparency: 0.5 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Nymphoidessp.</i> (LN: Nilkamal; HT: Ff; LU: Rel); <i>Nymphaea sp.</i> (LN: Seto Kamal; HT: Ff; LU: Rel, Orn).
Major plants in basin	<i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm, Ful); <i>Eucalyptus sp.</i> (LN: Masala; HT: Tr; LU: Carpet, Oil); <i>Ficus elastica</i> (LN: Rubber plant; HT: Tr; LU: Exudes); <i>Lagerstroemia parviflora</i> (LN: Botdhairo; HT: Tr; LU: Tm, Ful).
Fish	<i>Punticussp.</i> (LN: Pothi; LU: Meat); <i>Channasp.</i> (LN: Hile; LU: Meat); <i>Ctenoharyngodon idella</i> (LN: Carp; LU: Meat); <i>Clupisoma garua</i> (LN: Jalkapur; LU: Meat); <i>Monopterus cuchia</i> (LN: Bam; LU: Meat); <i>Oreochromissp.</i> (LN: Tilapia; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat).
Herpetofauna	<i>Hoplobatrachus sp.</i> (LN: Bhyaguta; EN: Bullfrog); <i>Bufo sp.</i> (LN: Khasre bhyaguto; EN: Toad); <i>Xenocrophis piscator</i> (LN: Pani Sarpa; EN: Keelback snake).

Birds	<i>Acridotheressp.</i> (LN: Mynah; EN: Starling); <i>Ardeolagrayii</i> (LN: Bakulla; EN: Pond Heron); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow); <i>Pycnonotus sp.</i> (LN: Jureli; EN: Bulbul); <i>Anhinga melanogaster</i> (LN: Suiro Thunde; EN: Darter).
Mammals	<i>Mussp.</i> (LN: Muso; EN: Rat); <i>Macaca mulatta</i> (LN: Rato Bandar; EN: Rhesus Monkey); <i>Lepussp.</i> (LN: Kharayo; EN: Hare); <i>Cavia aperea</i> (Guinea pig). Note: Mini zoo maintains gene of Python (3 species); Deer; Turtle; and many bird.
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Jamunbari</i> ; 500 m from lake; Main Trail: Jukekhadi– Bhurunga; 100 m from trail to lake.
Land use	Forestland (80%); Shrubland (5%); Grassland (5%); Wetland (5%); Other (5%).
Demography	Population: 3744; Male: 1800; Female: 1944; HHs: 624; Ethnicity: Brahmin/Chhetri (55%); Janajati (28%); Dalit (4%); Other (Dusnami 10%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>40 No.
Traditional production system	Traditional paddy cultivation; Traditional fishery.
Traditional water use practices	None
Cultural record	None.
Genesis/origin of lake	Dammed wetlands in 1995.

### D. Ecosystem Goods/Services

Provisional services	Fuelwood; Timber; Fodder; Fish production; NTFPs; Rubber plantation and processing.
Cultural services	Recreational and educational; Mini zoo; Picnic spot; Boating facilities.

### E. Restoration/Management

Structural management	Dam; Afforestation; Once supported from NLDC.
None-structural management	Informal rules in operation; Entry fee for visitors worth Rs. 30,000/day from different services.
Conservation plan	Available and in use as operational plan of CF.
Monitoring plan	None.

### F. Tourism information

>200,000 visitors annually; Good access to transportation, communication and hotels; Good hotels available in Surunga and Birtamod within 20 minutes of drive. Tourism potential high; Needs promotional activities.

### G. Lake condition

Good.



### 13. Katahare Bandh

Code: P1-D4-013

Topo sheet no: 2687 – 08 A

Date of inventory: June 4, 2012



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°38'04.87" N; <u>Lon</u> : 87°48'01.70" E; <u>Alt</u> : 127 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Satashidham VDC; Ward No. 3; Buddha Chowk.
Boundary	<u>Core Area</u> : Agricultural land in all directions. <u>Basin Area</u> : Dudhamarichok-Dudhamarigau trail in west; Thechambu-Yasok trail in east; Cultivation land in north and south.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 42° C; <u>Avg. Min Temp</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr (www.rapnepal.com/district/district-profile-4).
Area	<u>Core Area</u> : 0.2 ha; Avg. Length: 110 m; Avg. Width: 50 m; Avg. Depth: 1.5 m; Max–Min Surface Water Level: 2–1 m; <u>Basin Area</u> : 44.9 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Dhamala bandh; Outlet: Banyani bandh.
Water quality	<u>Physicochemical parameter</u> : Tem: 26° C; pH: 7; Transp: 0.3 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	High eutrophication.
Major aquatic plants	<i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Ff; LU: Wild food); <i>Hydrilla verticillata</i> (LN: Namle Ghaans; HT: Sm; LU: Fd). <i>Paspalum distichum</i> (LN: Mane Bansa; HT: Em; LU; Fd.); <i>Ipomea carnea</i> (LN: Besharam; HT: Hr; LU: None).
Major plants in basin	<i>Bambusasp</i> (LN: Bans; HT: Gr; LU: Fd); <i>Chromolaena odorata</i> (LN: Banmara; HT: Hr; LU: None); <i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Tm, Ful); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fr); <i>Imperata cylindrica</i> (LN: Siru; HT: Sh; LU: Fd).
Fish	<i>Punticus sp.</i> (LN: Sidhra; LU: Meat); <i>Channa sp.</i> (LN: Hile; LU: Meat); <i>Monopterusuchia</i> (LN: Bam; LU: Meat).
Herpetofauna	<i>Xenocrophissp.</i> (LN: Pani Sarpa; Keelback snake); <i>Hoplobatracus sp.</i> (LN: Bhyaguta; EN: Bullfrog); <i>Bufosp.</i> (LN: Khasre Bhyaguto; EN: Toad).

Birds	<i>Bulbulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Ardeola greyii</i> (LN: Bakulla; EN: Pond Heron); <i>Amaurornis phoenicurus</i> (LN: Sim Kukhura; EN: White breasted Waterhen).
Mammals	None.
Invasive alien species	<u>Plants</u> : <i>Eichhorniasp.</i> (LN: Jalkumbhi; EN: Water Hyacinth); <i>Eupatorium</i> sp (LN: Banmara; EN: Thoroughwort); <u>Animals</u> : <i>Achatina fulica</i> (LN: Sankhe Kira; EN: Snail).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Buddha Chowk</i> ; 100 m from lake; Main Trail: Dudamari Chowk–Dudamari gaon; 750 m from Dudamari Chowk to lake.
Land use	Agriculture land (80%); Settlement (10%); Wetland (5%); Other (5%).
Demography	Population: 150; Male: 90; Female: 60; HHs: 40; Ethnicity: Brahmin/Chhetri (40%); Janajati (50%); Dalit (2%); Others (8%); Major Religion: Hinduism.
Jurisdiction/ownership	Community.
Wetlands dependent community	None.
Livestock at basin	>150 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Water for irrigation in approx 25 ha; Water for livestock; Fish supply.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

## 14. Kechana Rani Pokhari

Code: P1-D4-014

Topo sheet no: 2688 – 09A & 2687 12B &12D

Date of inventory: June 15, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°23'15.03" N; <u>Lon</u> : 87°59'51.67" E; <u>Alt</u> : 64 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Kechana VDC; Ward No. 8 (Currently: Kachankabal Rural Municipality, Ward No. 4); Kechana.
Boundary	<u>Core Area</u> : Embankment in all directions. <u>Basin Area</u> : Agricultural land in west and east; Kechana Bazar in north; agricultural land and Tea garden in south.
Management responsibility	<i>Kechana Simsar Samiti</i> .
Wetlands type	Fresh water/natural; Palustrine; Emergent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 42° C; <u>Avg. Min Temp.</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr ( <a href="http://www.rapnepal.com/district/district-profile-4">www.rapnepal.com/district/district-profile-4</a> ).
Area	<u>Core Area</u> : 10.9 ha; Avg. Length: 1000 m; Avg. Width: 50 m; Avg. Depth: 4 m; Max–Min Surface Water Level: 5–3 m; <u>Basin Area</u> : 730.2 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp, 27° C; pH: 7; Transparency: 0.15 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Ff).
Major plants in basin	<i>Bambusasp.</i> (LN: Bans; HT: Gr; LU: Handicraft, Fd); <i>Eucalyptus sp.</i> (LN: Masala; HT: Tr; LU: Carpet, Oil); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fr).
Fish	<i>Punticussp.</i> (LN: Pothi; LU: Meat); <i>Channasp.</i> (LN: Hile; LU: Meat); <i>Monopterus cuchia</i> (LN: Bam; LU: Meat); <i>Ctenoharyngdon idella</i> (LN: Grass carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Clupisoma garua</i> (LN: Jal Kapur; LU: Meat); <i>Oreochromis sp.</i> (LN: Tilapia; LU: Meat).
Herpetofauna	<i>Hoplobatracus sp.</i> (LN: Bhyaguta; EN: Bullfrog;); <i>Bufo sp.</i> (LN: Khasre Bhyaguto; EN: Toad); <i>Hemidactylussp.</i> (LN: Mausuli; EN:

	Wall Lizard); <i>Xenocrophispiscator</i> (Pani Sarpa; EN: Keelback snake).
Birds	<i>Bulbulcus ibis</i> (LN: bakulla; EN: Cattle Egret); <i>Ardeola grayii</i> (LN: Bakulla; EN: Pond Heron); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow); <i>Amaurornis phoenicurus</i> (LN: Sim Kukhura; EN: White breasted Waterhen); <i>Anhingo melanogaster</i> (LN: Suiro thunde; EN: Darter).
Mammals	<i>Mus sp.</i> (LN: Muso; EN: Rat).
Invasive alien species	<u>Plants</u> : <i>Eupatoriumsp.</i> (LN: Banmara; EN: Thoroughwort); <u>Animals</u> : <i>Achatina fulica</i> (LN: Sankhe Kira; EN: Snail).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Kechana Bazar</i> ; 200 m from lake; Main Trail: Mechi Highway–Kechana Bazar; Lake lies on the closest distance from trail.
Land use	Shrubland (5%); Grassland (5%); Agriculture (70%); Settlement (5%); Wetland (10%); Other (5%).
Demography	Population: 100; Male: 55; Female: 45; HHs: 45; Ethnicity: Brahmin/Chhetri (30%); Janajati (40%); Dalit (20%); Other (10%); Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>20 no.
Traditional production system	Traditional paddy cultivation; Traditional fish production.
Traditional water use practices	Communitymanaged canal (1).
Cultural record	One monument to mark a place of the lowest altitude of Nepal; Temple.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Fish supply.
Cultural services	Local fair during festival; Recratioanal and educational.

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** Over 1000 visitors annually; No tourism potential.

**G. Lake condition** Good.

## 15. Lahure Bandh

Code: P1-D4-015

Topo sheet no: 2687 – 08 A

Date of inventory: June 4, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°38'03.91"N; <u>Lon</u> : 87°48'15.59"E; <u>Alt</u> : 127 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Satashidham VDC; Ward No. 3; <i>Dundamarigaon</i> .
Boundary	<u>Core Area</u> : Vegetation cover in east; Agricultural land in west and north; Vegetation and agriculture field in south. <u>Basin Area</u> : Thechambu-Yasok trail in west; Cultivation land in east; south and north.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 42° C; <u>Avg. Min Temp</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr ( <a href="http://www.rapnepal.com/district/district-profile-4">www.rapnepal.com/district/district-profile-4</a> ).
Area	<u>Core Area</u> : 0.2 ha; Avg. Length: 450 m; Avg. Width: 15 m; Avg. Depth: 2.5 m; Max-Min Surface Water Level: 3–2 m; <u>Basin Area</u> : 18.1 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Dhamala bandh; Outlet: Pagari bandh.
Water quality	<u>Physicochemical parameter</u> : Temp.: 26° C; pH: Acidic; Transparency: 0.25 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	Excess growth of macrophytes.
Major aquatic plants	<u>Core Area</u> : <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Ff; LU: Wild food); <i>Hydrilla verticillata</i> (LN: Namle Ghaans; HT: Sm; LU: Fd).
Major plants in basin	<i>Bambusasp.</i> (LN: Bans; HT: Gr; LU: Fd); <i>Ipomea carnea ssp. fistulosa</i> (LN: Besharam; HT: Hr; LU: None); <i>Dalbergia sisso</i> (LN: Sisau; HT: Tr; LU: Tm, Ful); <i>Oxalis corniculata</i> (LN: Chariamilo; HT: Hr).
Fish	<i>Punticus sp.</i> (LN: Pothi; LU: Meat); <i>Channasp.</i> (LN: Hile; LU: Meat); <i>Osteobramasp.</i> (LN: Garai; LU: Meat).
Herpetofauna	<i>Xenocrophissp.</i> (LN: Pani Sarpa; EN: Keelback snake); <i>Rana sp.</i> (LN: Bhyaguta; EN: Frog); <i>Bufosp.</i> (LN: Khasre Bhyaguto; EN: Toad).

Birds	<i>Bulbulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Ardeola greyii</i> (Pond Heron); <i>Amauornis phoenicurus</i> (LN: Sim Kukhura; EN: White breasted Waterhen).
Mammals	<i>Mus sp.</i> (LN: Muso; EN: Rat); No large mammals.
Invasive alien species	<u>Plants</u> : <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth); <u>Animals</u> : <i>Achatina fulica</i> (LN: Sankhe Kira; EN: Snail).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Dudamari village</i> ; 500 m from lake; Main Trail: Samjhana chowk-Yasok; 100 m from lake.
Land use	Agriculture land (80%); Settlement (10%); Wetland (5%); Other (5%).
Demography	Population: 200; Male: 80; Female: 120; HHs: 45; Ethnicity: Brahmin/Chhetri (40%); Janajati (50%); Dalit (5%); Others (5%); Major Religion: Hinduism.
Jurisdiction/ownership	Community.
Wetlands dependent community	None.
Livestock at basin	>50 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Water for irrigation in approx 30 ha; Water for livestock; Fish supply; Forage; Bamboo for handicrafts.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Good.

## 16. Lajeko Bandh

Code: P1-D4-016

Topo sheet no: 2687 – 07B

Date of inventory: May 30, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°41'28.00" N; <u>Lon</u> : 87°41'49.47" E; <u>Alt</u> : 148 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Damak Municipality; Ward No. 1 (Currently: Damak Municipality, Ward No. 1); <i>Bhangbari</i> .
Boundary	<u>Core Area</u> : Agricultural land in all directions. <u>Basin Area</u> : Aamchowk- Kharkahre in west; Baghkhori-Bhanbari road in east; Cultivation land in south and north.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Palustrine; Emergent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 42° C; <u>Avg. Min Temp</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr (www.rapnepal.com/district/district-profile-4).
Area	<u>Core Area</u> : 0.9 ha; Avg. Length: 150 m Avg. Width: 30 m Avg. Depth: 1 m; Max–Min Surface Water Level: 2-0.5 m; <u>Basin Area</u> : 100.8 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Small stream; Outlet: Small drainage towards west.
Water quality	<u>Physicochemical parameter</u> : Temp.: 26° C; pH: Acidic; Transparency: 0.35 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	Eutrophication.
Major aquatic plants	<i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Ff; LU: Wild food); <i>Euryale ferox</i> (LN: Makhana; HT: Ff).
Major plants in basin	<i>Dalbergia sisso</i> (LN: Sisau; HT: Tr; LU: Tm); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Fd, ful); <i>Bambusasp.</i> (LN: Bans; HT: Gr; LU: Fd); <i>Albizia chinensis</i> , <i>Albizia lebbeck</i> (LN: Siris; HT: Tr; LU: Tm); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Rel); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fr); <i>Typha angustifolia</i> (LN: Patar; HT: Hr; LU: Ffood control); <i>Mimosa pudica</i> ((LN: Lajawanti; HT: Hr; LU: Fd, Fertilizer); <i>Oxalis corniculata</i> (LN: Chari Amili; HT: Hr; LU: Med); <i>Oryza sativa</i> (LN: Dhan; HT: Hr; LU: Food).
Fish	<i>Punticus sp.</i> (LN: Pothi; LU: Meat); <i>Channasp.</i> (LN: Hile; LU: Meat); <i>Monopterus cuchia</i> (LN: Bam; LU: Meat); <i>Ctenoharyngdon idella</i> (LN: Grass carp; LU: Meat); <i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat).

Herpetofauna	<i>Xenocrophissp.</i> (LN: Pani Sarpa; EN: Keelback snake); <i>Ranasp.</i> (LN: Bhyaguta; EN: Frog); <i>Bufosp.</i> (LN: Khasre Bhyaguto; EN: Toad).
Birds	<i>Amaurornis phoenicurus</i> (LN: Simkukhura; EN: White Breasted Waterhen); <i>Bulbulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Phalacrocorax sp.</i> (LN: Jalewa; EN: Comorant); <i>Ardeola grayii</i> (LN: Bakulla; EN: Pond Heron); <i>Streptopelia chinensis</i> (LN: Dhukur; EN: Spotted Dove).
Mammals	<i>Mus sp.</i> (LN: Muso; EN: Rat).
Invasive alien species	<i>Mikania micrantha</i> , (LN: Lahare Banmara); <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth); <i>Mimosa pudica</i> (LN: Lajjawanti Jhar; EN: Touch-me-not, Humble Plant); <i>Bidenssp.</i> (LN: Kuro; EN: Cobbler's Peg).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Bhangbari</i> ; 500 m from lake; Main Trail: Damak-Bhangbari trail; 500 m from lake.
Land use	Shrubland (5%); Grassland (5%); Agriculture (65%); Settlement (15%); Wetland (5%); Others (5%).
Demography	Population: 150; Male: 80; Female: 70; HHs: 30; Ethnicity: Brahmin/Chhetri (35%); Janajati (45%); Dalit (5%); Others (15%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>80 no.
Traditional production system	Traditional pady cultivation; Traditional fishery.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigatinon; Fish supply.
Cultural services	Religious place; Recreational place; Local fair.

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** >1000 annual visitors; No tourism potential.

**G. Lake condition** Good.



## 17. Mahadevsthan Bandh

Code: P1-D4-017

Topo sheet no: 2687 – 07 D

Date of inventory: June 2, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°31'10.81" N; <u>Lon</u> : 87°39'08.16" E; <u>Alt</u> : 88 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Kohabara VDC; Ward No. 4; Mahadevsthan.
Boundary	<u>Core Area</u> : Agricultural land in all directions. <u>Basin Area</u> : Ratuwa Khola in west; Chapramari-Mahadevsthan-Birbalchok in east; Magarkhadigau-Kohabar trail in south; Khukutol-Nayagau road in north.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Riverine; Perennial.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 42° C; <u>Avg. Min Temp</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr (www.rapnepal.com/district/district-profile-4).
Area	<u>Core Area</u> : 0.1 ha; Avg. Length: 75 m Avg. Width: 25 m; Avg. Depth: 3.5 m; Max-Min Surface Water Level: 5–2.5 m; <u>Basin Area</u> : 25.8 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: Towards south.
Water quality	<u>Physicochemical parameter</u> : Temp: 27° C; pH: Slightly acidic; Transparency: 0.2 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Ff; LU: Wild food); <i>Polygomumhydropiper</i> (LN: Pire Jhar; HT: Em; LU: Fish poisoning).
Major plants in basin	<i>Bambusasp.</i> (LN: Bans; HT: Gr; LU: Fd); <i>Mimosa pudica</i> (LN: Lajawanti; HT: Hr); <i>Albizia chinensis</i> (LN: Siris; HT: Tr; LU: Orn); <i>Oryza sativa</i> (LN: Dhan; HT: Hr; LU: Food).
Fish	<i>Punticus sp.</i> (LN: Pothi; LU: Meat); <i>Channasp.</i> (LN: Hile; LU: Meat); <i>Monopterus cuchia</i> (LN: Bam; LU: Meat); <i>Ctenoharyngdon idella</i> (LN: Grass carp; LU: Meat); <i>Oreochromissp.</i> (LN: Tilapia; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat).
Herpetofauna	<i>Xenocrophis piscator</i> (LN: Pani Sarpa; EN: Keelbacksnake); <i>Rana sp.</i> (LN: Bhyagutta; EN: Frog); <i>Bufo</i> sp. (LN: Khasre Bhyaguto; EN: Toad); <i>Calotes versicolor</i> (LN: Chheparo; EN: Garden lizard).

Birds	<i>Pycnonotus</i> sp. (LN: Jureli; EN: Bulbul); <i>Bulbulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Ardeola grayii</i> (LN: Bakulla; EN: Pond Heron); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow).
Mammals	<i>Mus</i> sp. (LN: Muso; EN: Rat); <i>Felis chaus</i> (LN: Banbiralo; EN: Jungle Cat).
Invasive alien species	<i>Mikania micrantha</i> , (LN: Lahare Banmara; EN: Bitter Vine); <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth); <i>Mimosa pudica</i> (LN: Lajjawanti Jhar; EN: Humble Plant, Touch-me-not).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Mahadevsthan</i> ; 500 m from lake; Main Trail: Gauradaha-Harinchara-Mahadevsthan; 500 m from lake.
Land use	Shrubland (5%); Grassland (5%); Agriculture (70%); Settlement (5%); Wetlands (5%); Others (10%).
Demography	Population: 160; Male: 85; Female: 75; HHs: 35; Ethnicity: Brahmin/Chhetri (20%); Janajati (70%); Dalit (5%); Others (5%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>100 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigation in >50 ha; Water for livestock; Commercial fishery; Bamboo for handicraft.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

## 18. Pagari Bandh

Code: P1-D4-018

Topo sheet no: 2687 – 08 A

Date of inventory: June 7, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°37'49.35" N; <u>Lon</u> : 87°48'35.69" E; <u>Alt</u> : 123 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Satashidham VDC; Ward No. 3; <i>GurashChowk</i> .
Boundary	<u>Core Area</u> : Agricultural land in all directions. <u>Basin Area</u> : Thechambu-Yasok trail east; Cultivation land in west; south and north.
Managementresponsibility	Community.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 42° C; <u>Avg. Min Temp</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr (www.rapnepal.com/district/district-profile-4).
Area	<u>Core Area</u> : 0.1 ha; Avg. Length: 120 m; Avg. Width: 50 m; Avg. Depth: 1.5 m; Max–MinSurface Water Level: 2–1 m; <u>Basin Area</u> : 37.8 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Lahure bandh; Outlet: Banyani bandh.
Water quality	<u>Physicochemical parameter</u> : Temp.: 26° C; pH: Acidic; Transparency: 0.3 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Ff; LU: Wild food); <i>Cyperussp.</i> (LN: Mothe; HT: Em; LU: Grass); <i>Fimbristylis</i> spp. (LN: Tirre Jhar; HT: Em; LU: Fd); <i>Hymenachne pseudointerrupta</i> (LN: Dal grass; HT: Em LU: Fd).
Major plants in basin	<i>Bambusasp.</i> (LN: Bans; HT: Gr; LU: Fd); <i>Zea mays</i> (LN: Makai; HT: Hr; LU: Food); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fr); <i>Oryza sativa</i> (LN: Dhan; HT: Hr; LU: Food).
Fish	<i>Punticussp.</i> (LN: Pothi; LU: Meat); <i>Channasp.</i> (LN: Hile; LU: Meat); <i>Monopterus cuchia</i> (LN: Bam; LU: Meat).
Herpetofauna	<i>Hoplobatracus sp.</i> (LN: Bhyagutta; EN: Bullfrog); <i>Bufosp.</i> (LN: Khasre bhyaguto; EN: Toad).
Birds	<i>Bulbulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Ardeola greayii</i> (LN: Bakulla; EN: Pond Heron).

Mammals	None.
Invasive alien species	<i>Eichhorniacrassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	<i>Ganesh Chowk</i> ; 100 m from lake; Main Trail: Shamjana chowk-Ganesh Chowk; 100 m from lake.
Land use	Agriculture land (80%); Settlement (10%); Wetland (5%); Other (5%).
Demography	Population: 120; Male: 60; Female: 90; HHs: 39; Ethnicity: Brahmin/Chhetri (50%); Janajati (40%); Dalit (1%); Others (7%); Major Religion: Hinduism.
Jurisdiction/ownership	Community.
Wetlands dependent community	None.
Livestock at basin	>150 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	None.

### **D. Ecosystem Goods/Services**

Provisional services	Irrigation; Fish supply.
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

## 19. Pathriya Khadi

Code: P1-D4-019

Topo sheet no: 2687 – 12 B & 12 D

Date of inventory: June 14, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°24'52.60" N; <u>Lon</u> : 87°57'33.30" E; <u>Alt</u> : 71 masl.
Geographical position	Terai.
Administrative feature	EDR; Jhapa district; Kechana VDC; Ward No. 8 (Currently: Kachnkabal Rural Municipality, Ward No. 4); <i>Gherabari</i> .
Boundary	<u>Core Area</u> : Agriculture land in east, west and north; Vegetation in south. <u>Basin Area</u> : Buwalmadi-Lalitbasti trail in west; Jamuna nadi in east; Nemobari-Nitai-Jamundagi trail south; Gherabari-Sukunadigi road I north.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Riverine; Perennial.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 42° C; <u>Avg. Min Temp</u> : 8° C (DDC Profile); <u>Rainfall</u> : 2000 mm/yr (www.rapnepal.com/district/district-profile-4).
Area	<u>Core Area</u> : 0.9 ha; Avg. Length: 240 m; Avg. Width: 20 m; Avg. Depth: 1 m; Max–MinSurface Water Level: 2–1 m; <u>Basin Area</u> : 46.6 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Bering khola, Underground source; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 27° C; pH: Acidic; Transparency: 0.2 m.
Soil feature	Dark grey color; Silty clay texture.
Shocks/vulnerability	Eutrophication.
Major aquatic plants	<u>Core Area</u> : <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Ff; LU: None).
Major plants in basin	<i>Bambusasp.</i> (LN: Bans; HT: Gr; LU: Handicraft, Fd); <i>Oryza sativa</i> (LN: Dhan; HT: Hr; LU: Food); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fr).
Fish	<i>Punticussp.</i> (LN: Pothi; LU: Meat); <i>Channasp.</i> (LN: Hile; LU: Meat); <i>Monopterus cuchia</i> (LN: Bam; LU: Meat); <i>Ctenoharyngdon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rohu; LU: Meat).

Herpetofauna	<i>Hoplobatrachus sp.</i> (LN: Bhyaguta; EN: Bullfrog); <i>Bufo sp.</i> (LN: Khasre Bhyaguto; EN: Toad); <i>Varanus bengalensis</i> (LN: Gohoro; EN: Monitor lizard); <i>Xenocrophispiscator.</i> (LN: Pani Sarpa; EN: Keelback snake).
Birds	<i>Bulbulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Ardeola grayii</i> (LN: Bakulla; EN: Pond Heron); <i>Leptoptilos sp.</i> (LN: Gadur; EN: Adjutant); <i>Pycnonotus sp.</i> (LN: Jureli; EN: Bulbull).
Mammals	<i>Mus sp.</i> (LN: Muso; EN: Rat). No large mammals since many years.
Invasive alien species	<u>Plants:</u> <i>Eupatoriumsp.</i> (LN: Banmara; EN: Thoroughwort); <i>Eichhornia crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth); <i>Bidensp.</i> (LN: Kuro; EN: Cobbler's Peg).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Nitai Tol</i> ; 300 m from lake; Main Trail: Mechi Highway–Pathariyahat; 50 m from trail to lake.
Land use	Agriculture (80%); Settlement (10%); Wetland (5%); Other (5%).
Demography	Population: 200; Male: 105; Female: 95; HHs: 45; Ethnicity: Brahmin/Chhetri (20%); Janajati (20%); Dalit (2%); Other (58%); Major Religion: Hinduism/Buddhism/Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>150 no.
Traditional production system	Traditional paddy cultivation; Traditional fishery.
Traditional water use practices	Communitymanaged canal.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Fish supply.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

## 20. Salbari Tal (Budho Holi, Bhimsen Pokhari)

Code: P1-D4-020

Toposheet no: 2687 08 B

Date of inventory: August 10, 2014



### A. General Feature

Conservation status

Geographical coordination

Geographical position

Administrative feature

Boundary

Management responsibility

Wetlands type

None.

Lat: 26° 40' 20.64" N; Lon: 88° 00' 59.04" E; Alt: 143 masl.

Terai.

EDR; Jhapa district; Sani-Arjun Municipality; Ward: 7,8 (Currently: Arjunthara Municipality, Ward 9,10), Sanischare.

Core area: Namuna Community Forest in east, north and south, and settlement and paddy field of municipality ward 8 in west.

Basin Area: Rekhakhola in west; Sarkehola in east; Sanischare-Charali Road in north; Namuna CF in south.

Namuna CF; Sukhani Martyr's Memorial Foundation.

Fresh water/natural; Riverine; Perennial.

### B. Ecological Feature

Climatic feature

Area

Water Volume

Water quality

Soil feature

Shocks/vulnerability

Major aquatic plants

Major plants in basin

Fish

Avg. Max Temp: 42° C; Avg. Min Temp: 8° C (DDC Profile); Rainfall: 2000 mm/yr (www.rapnepal.com/district/district-profile-4).

Core area: 1.7 ha; Avg. Length: 0.6 km; Avg. Width: 0.1 km; Avg. Depth: 5 m; Max-Min Surface Water Level: 6–4 m; Basin Area: 158.2 ha.

Peak Period: NA; Dry period: NA; Inlet: Adhuwa river (Bhimsenghat); Outlet: Upreti Khola; Dammed.

Physicochemical parameter: Temp: 27°C, pH: DO: 5.2 mg/l; Hardness: 30.1; Transparency: 0.47 m.

Dark grey color; Sandy loam texture.

None.

Core area: No macrophyte. Many species of algae available.

*Shorea robusta* (LN: Sal; HT: Tr; LU: Tm); *Syzygium cumini* (LN: Jamun; HT: Tr; LU: Fr, Tm); *S. operculatum* (LN: Kyamuna; HT: Tr; LU: Fr, Tm); *Terminalia bellirica* (LN: Barro; HT: Tr; LU: Tm, Med); *T. chebula* (LN: Harro; HT: Tr; LU: Med, Tm); *T. alata* (LN: Saj; HT: Tr; LU: Tm); *Lagerstroemia parviflora* (LN: Dhayaro; HT: Tr; LU: Fd, Tm); *Dillenia pentagyna* (LN: Tatari; HT: Sh; LU: Fd); *Careya arborea* (LN: Kumbi; HT: Sh; LU: FD); *Cyathea spinulosa* (LN: Rukh Uniu; HT: Sh; LU: Fd); *Dioscorea deltoidea* (LN: Ban tarul; HT: Cl; LU: Food); *Pterocarpus marsupium* (LN: Bijayasal; HT: Tr; LU: Tm); *Rawalfia serpentine* (LN: Chandmaruwa; HT: Hr; LU: Med); *Piper longum* (LN: Pipla; HT: Cl; LU: Med).

*Amphipnous cuchia* (LN: Katile; LU: Meat); *Mastacembelus armatus* (LN: Andha Bam; LU: Meat); *Xentodon cancila*; *Noemachelis botia* (LN: Chuche Bam; LU: Meat); *Macrogathus aculeatus* (LN: Gaichii; LU: Meat); *Gambusia affinis* (LN: Gambusia; LU: Meat); *Channa punctatu* (LN: Garai, LU: Meat); *Apleocheilus panchax* (LN: Hile Machha; LU: Meat); *Macrochlamys turgurium*; *Anguilla bengalensis* (LN: Rajbam; LU: Meat); *Hetereropneustes fossilis* (LN: Singhee; LU: Meat). >19 sps of fishes reported including exotic fishes (Shrestha, J. & Shrestha, T.K., Appros, 1995 etc.)

Herpetofauna	<i>Euphlyctis cyanophlyctis</i> (LN: Ahale Bhyaguto; EN: Skittering Frog), <i>Duttaphrynus stomaticus</i> (LN: Dalle Khasre; EN: Marble Toad), <i>Polypedates maculatus</i> (LN: Rukh Bhyaguto; EN: Tree Frog); <i>Python molurus</i> (LN: Anjingar; EN: Indian Python); <i>Varanus bengalensis</i> (LN: Bhaise Gohoro; EN: Bengal Monitor); <i>Lissemys punctata</i> (LN: Dhakanikhabate Kachhuwa; EN: Flapshelled Turtle); <i>Naja kauothia</i> (LN: Seto-ek-Thople Goman; EN: Monocellate Cobra); <i>Gekko gecko</i> (LN: Tokeh; EN: Tokay Tokay). > 14 & 22 sps. of frog & reptiles reported (Schleich & Kaestle, 2003, Approsc, 1995)
Birds	<i>Aythya nyroca</i> (LN: Ankhe Haans; EN: Whiteeyed Pochard); <i>Turdoides</i> sp. (LN: Ban Bhyakur; EN: Jungle Babbler); <i>Ciconia episcopus</i> (LN: Bhundiphor; EN:Whitenecked Stork), <i>Ceryle rudis</i> (LN: Chhimbire maticore; EN: Maticore Pied Kingfisher); <i>Gyps bengalensis</i> (LN: Giddha; EN: Whitebacked Vulture); <i>Pyctonotus melanicterus</i> (LN: Kalotauke Jureli; EN: Black Crested Bulbul); <i>Bubo nipalensis</i> (LN: Latokoshero; EN: Forest Eagle Owl), <i>Grus antegone</i> (LN: Sarus; EN: Sarus crane) .>50 sps of birds reported (Grimet et.al (2003), Koirala, 2004, Approsc, 1995 etc.).
Mammals	<i>Sus scrofa</i> (LN: Bandel; EN: Wildboar); <i>Felis chaus</i> (LN: Banbiralo; EN: Jungle Cat); <i>Macaca malatta</i> (LN: Ratobandar; EN: Rhesus monkey); <i>Muntiacus muntjak</i> (LN: Hareen; EN: Barking Deer); <i>Paradoxorus hermaphroditus</i> (LN: Kala; EN: Asian Palm Civet); <i>Petaurista petaurista</i> (LN: Rajpankhi; EN: Red Giant Flying Squirrel) (Ref.: Koirala, 2004, Approsc, 1995).
Invasive alien species	<u>Plants:</u> <i>Eichhornea crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth); <i>Mikania macarantha</i> (LN: Lahare Banmara; EN: Bitter Vine, American Roap).
Endemic plant/animal	<u>Plants:</u> <i>Cycas pectinata</i> CITES II (LN: Thakal; EN: Assamese Cycas)

### C. Socio-Economy at Basin

Nearby settlement	<i>Sanischare Bazaar</i> ; 4 km from lake; Main Trail: Sanischare-Mahananda Chowk-Park; 100 m from lake to main trail.
Land use	Forestland (60%); Agriculture (20%); Shrubland (4%); Settlement (10%); Barren land (4%); Wetland (2%).
Demography	Population: >10,000; Male: 5,079; Female: 5,617; HHs: 1943; Segregated pop <sup>n</sup> data of wards 6, 7 & 9 of former Sanischare VDC now Municipality. Ethnicity: Janajati (20%); Brahmin (60%); Dalit (5%); Others (15%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>1500 no.
Traditional production system	Traditional paddy cultivation; Traditional fishery.
Traditional water use practices	Community managed canal; Traditional well.
Cultural record	None.
Genesis/origin of lake	Lake created after damming to main route of Aduwa river.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Commercial fishery; Timber; Fuelwood; Fodder/forage.
Cultural services	Aesthetic and scenic; Recreational and educational services.

### E. Restoration/Management

Structural management	Aesthetic and scenic; Recreational and educational services.
None-structural management	None; Entry fee practice in place.
Conservation plan	None.
Monitoring plan	Conservation Plan of Bhimsen Pokhari & Turtle Conservation Plan.

### F. Tourism information

>60,000 annual visitors; Good hotels in Birtamod about 12 km from lake; Moderate vehicle services from Birtamod; High tourism potential; Need marketing and tourism promotional activities.

### G. Lake condition

Good.



## Annex-8: Inventory of lakes in Khotang district

### 1. Bahane Pokhari

Code: P1-D5-001

Topo sheet no: 2786- 12

Date of inventory: June 3, 2013



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°22'40.6" N; <u>Lon</u> : 86°49'52.0" E; <u>Alt</u> : 2,394 masl.
Geographical position	Midlands/Slope.
Administrative feature	EDR; Khotang district; Rakhabandel VDC; Ward No. 5 (Currently: Aaiselukharka Rural Municipality, Ward No. 1); <i>Bahane</i>
Boundary	<u>Core Area</u> : Patle CF in east; Baneale CF in west: Grassland and trail in south; Settlement of Bahane in north. <u>Basin Area</u> : Lidi khola in west; Bahane dada in east; Thala danda in south; Badel-Adheri-Bahane trail in north.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 30° C; <u>Avg. Min Temp</u> : 5° C; <u>Avg. Rainfall</u> : 148 mm/yr (DDC Profile 2007).
Area	<u>Core Area</u> : 0.6 ha; Avg. Length: 150 m; Avg. Width: 50 m; Avg. Depth: >2 m; Max-Min Surface Water Level: 3–2 m; <u>Basin Area</u> : 5.8 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: Small drain.
Water Quality	<u>Physicochemical parameter</u> : pH: 6.5; Transparency: 0.6 m.
Soil feature	Dark and red color; Sandy loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : None.
Major plants in basin	<i>Rhododendron</i> spp. (LN: Gurans; HT: Tr; LU: Tr); <i>Viburnum erubescens</i> (LN: Asare; HT: Tr; LU: Tr); <i>Symplocos ramosissima</i> (LN: Kharane; HT: Tr; LU: Tr); <i>Zanthoxylum acanthopodium</i> (LN: Boke timbur; HT: Sh); <i>Quercus semicarpifolia</i> (LN: Khasru; HT: Tr; LU: Tm, Ful); <i>Lyonia ovalifolia</i> (LN: Angeri; HT: Tr; LU: Tm, Ful); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm, Ful); <i>Rubus ellipticus</i> (LN: Ainselu; HT: Sh; LU: food, Fd).
Fish	None.
Herpetofauna	<i>Psadynastessp.</i> (LN: Kaalo Sarpa; EN: Mock Viper); <i>Trimeresurussp.</i> (LN: Pahelo Sarpa; EN: Pit Viper); <i>Amolopssp.</i> (LN: Kaalo Bhyaguta; EN: Stream frog).

Birds	<i>Corvus macrorhynchos</i> (LN: Kalo Kaag; EN: Large billed crow); <i>Apus affinis</i> (LN: Gauthali; EN: House swallow); <i>Lophura leucomelanos</i> (LN: Kaliz; EN: Kalij Pheasant); <i>Dendrocitta formosae</i> (LN: Kokale; EN: Treepie); <i>Phalacrocorax carbo</i> (LN Jalewa; EN: Great cormorant; migratory).
Mammals	<i>Lepus</i> sp. (LN: Kharayo; EN: Hare); <i>Panthera pardus</i> (LN: Chituwa; EN: Common Leopard); <i>Hystrix</i> sp. (LN: Dumsi; EN: Porcupine); or <i>Muntiacus muntjak</i> . (LN: Ratuwa; EN: Barking Deer); <i>Ursus thibetanus</i> (LN: Seto Kanthe Bhalu; EN: Himalayan Black bear); <i>Capricornis sumatraensis</i> (LN: Thar; EN: Serow).
Invasive alien species	<i>Eupatorium</i> sp. (LN: Banmara; EN: Thoroughwort); <i>Lantana camara</i> (LN: Lwang Phool; EN: Sage).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Bahane</i> -5; 200 m from lake; Main Trail: Rakha-Thala Danda-Bahane Danda; 500 m from trail to lake.
Land use	Forestland (33%); Shrubland (5%); Grassland (40%); Agriculture (10%); Settlement (2%); Wetland (10%).
Demography	Population: 2,525; Male: 1,130; Female: 1,395; HHs: 543; Ethnicity: Janajati (100%); Major Religion: Buddhism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>30 nso.
Traditional production system	Terrace farming (Potatos; Maize; Wheat; <i>Pindalu</i> ).
Traditional water use practices	None.
Cultural record	A myth that if waste disposed to lake invites thunderstorm and sufferings like human diseases.
Genesis/origin of lake	Belief that water accumulated in depression area within a night and small lake created later which swollen its size. " <i>Bahane</i> " in the Rai language stands for a place where serments gather after their rituals.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock; Irrigation; Fooder; Wild Fr; NTFPs.
Cultural services	Cultural fair during <i>Baisakh</i> ( <i>Chandi Purni</i> ); <i>Mangsir</i> (Jayan Purnima); <i>Bhadra</i> (Janai Purnima).

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

About 10 foreigner visitors a year; No guest house/hotels yet; No tourism potential.

### G. Lake condition

Good.

## 2. Baraha Pokhari

Code: P1-D5-002

Topo sheet no: 2686- 04 A

Date of inventory: May 30, 2013



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°58'52.40" N; <u>Lon</u> : 86°49'27.30" E; <u>Alt</u> : 1,016 masl.
Geographical position	Midlands/Valley.
Administrative feature	EDR; Khotang district; Baraha Pokhari VDC; Ward No. 4 (Currently: Barahapokhari Rural Municipality, Ward No. 1); <i>BarahaPokhari</i>
Boundary	<u>Core Area</u> : Mathgaun-Baraha Pokhari trail in west; Baraha Pokhari CF in east; Baraha Pokhari Bazar in south; Cultivation land in north. <u>Basin Area</u> : Dudhkoshiriver in west; Mixed forest in east; Khalde-Barahabhir-Sapmara trail in south; Sunthale VDC in south; Sawakhola river in the north.
Managementresponsibility	Baraha Pokhari Conservation and Tourism Development Committee.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 30 <sup>0</sup> C; <u>Avg. Min Temp</u> : 5 <sup>0</sup> C; <u>Avg. Rainfall</u> : 148 mm/yr (DDC Profile 2007).
Area	<u>Core Area</u> : 3.3 ha; Avg. Length: 270 m; Avg. Width: 130 m; Avg. Depth: 10 m; Max–Min Surface Water Level: 4–2 m; <u>Basin Area</u> : 85.3 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: Baraha Khola.
Water Quality	<u>Physicochemical parameter</u> : pH: 6.5; Transparency: 1 m.
Soil feature	Grey and red color; Sandy silt loam texture.
Shocks/vulnerability	Lake exposed to flood in 2012.
Major aquatic plants	<u>Core Area</u> : None.
Major plants in basin	<i>Rhododendron</i> spp. (LN: Gurans; HT: Tr; LU: Tm, Ful); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Ful, Fd); <i>Pinus roxburghii</i> (LN: Khote salla; HT: Tr; LU: Tm, Ful); <i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Fd, Ful); <i>Persicaria barbata</i> (LN: Pire Ghaans; HT: Gr; LU: None); <i>Bidens pilosa</i> (LN: Kalo kuro; HT: Gr; LU: None); <i>Jatropha curcas</i> (LN: Sajiwan; HT: Sh; LU: None).
Fish	<i>Carassius carassius</i> (LN: Rato machha; LU: Decorative).

Herpetofauna	<i>Xenocrophissp.</i> (LN: Pani Saap; Keelback snake); <i>Python molurus</i> (LN: Ajingar; EN: Rock Python).
Birds	<i>Corvus macrorhynchos</i> (LN: Kalo Kaag; EN: Large billed crow); <i>Hirundo rustica</i> (LN: Gauthali; EN: Barn swallow); <i>Phalacrocorax carbo</i> (LN: Jalewa; EN: Great cormorant); <i>Leptoptilos javanicus</i> (LN: Bhundiphor; EN: Lesser Adjutant); <i>Surniculus lugubris</i> (LN: Kalo Koilee; EN: Drongo Cuckoo).
Mammals	<i>Felis chaus</i> (LN: BanBiral; EN: Jungle Cat); <i>Hystrix sp.</i> (LN: Dumsi; EN: Porcupine); <i>Muntiacus muntjak</i> (LN: Mirga; EN: Barking Deer); <i>Herpestes javanicus</i> (LN: Nyauri; EN: Small Asian mongoose); <i>Manis sp.</i> (LN: Salak; EN: Pangoline).
Invasive alien species	<i>Eupatorium sp.</i> (LN: Banmara); <i>Lantana camara</i> (LN: Lwang Phool; EN: Sage).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>BarahaPokhari Bazar</i> ; 100 m far from the wetland; Main Trail: Phoksintar-Bhanjyang-Danda Kharka-Thurlunggarai; About 3 from lake.
Land use	Forestland (35%); Shrubland (10%); Grassland (5%); Agriculture (30%); Settlement (10%); Wetland (10).
Demography	Population: 3830; Male: 1879; Female: 1951; HHs: 716; Ethnicity: Brahmin/Chhetri (20%); Janajati (73%); Dalit (8%). Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None.
Traditional production system	Terrace farming.
Traditional water use practices	Traditional Kulo; Well and Kuwa (5).
Cultural record	Locall belief that any wishes get fulfilled by visiting to this lake.
Genesis/origin of lake	in <i>Satya yuga</i> (An era of truth); incarnation of the God <i>Bishnu i.e., "Baraha"</i> killed <i>Hiranyakscha</i> (a demon) after a long war, and demon's blood drenched to the body of <i>Baraha</i> (wild boar). To purify the body, this lake was explored for the holy dip.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock; Fodder/forage; Irrigation from <i>Baraha Khola</i> ; Fishing and swimming.
Cultural services	<i>Barahi</i> temple; Local fair <i>Haribodhani Ekadashi</i> in <i>Kartik</i> .

### E. Restoration/Management

Structural management	Dam; Occasional plantation.
None-structural management	Volunteer restriction for waste disposal; Fishing and swimming.
Conservation plan	None.
Monitoring plan	None

### F. Tourism information

Many visitors during festival; No hotels and lodges; One health post; Moderate tourism potential; Needs infrastructural and human resource development and religious tourism promotional activities.

### G. Lake condition

Degrading.

### 3. Chhitta Pokhari

Code: P1-D5-003

Topo sheet no: 2786- 16 C

Date of inventory: May 29, 2013



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°06'03.60" N; <u>Lon</u> : 86°49'33.20" E; <u>Alt</u> : 2,017 masl.
Geographical position	Midlands/Slope.
Administrative feature	EDR; Khotang district; Chhitta Pokhari VDC; Ward No: 9 (Currently: Diphung Rural Municipality, Ward No. 6); <i>Suke Pokhari</i>
Boundary	<u>Core Area</u> : Khudurke-Dadakharka trail in west; Gopi-Chittapokhari trail in east; Cultivation and Settlement of Chittapokhari in south and north. <u>Basin Area</u> : Dadagaun in west; Chhitta Pokhari CF in east; Kalika CF, Battisun gaon in south; Cultivation land and Dadagaun-1 in north.
Management responsibility	VDC.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 30° C; <u>Avg. Min Temp</u> : 5° C; <u>Avg. Rainfall</u> : 148 mm/yr (DDC Profile 2007).
Area	<u>Core Area</u> : 0.1 ha; Avg. Length: 45 m; Avg. Width: 20 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 3-1 m; <u>Basin Area</u> : 41.3 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water Quality	<u>Physicochemical parameter</u> : pH: 6.5; Transparency: 0.3 m.
Soil feature	Red and grey color; Sandy silt loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : None.
Major plants in basin	<i>Pinus roxburghii</i> (LN: Khote salla; HT: Tr; LU: Tr); <i>Juniperus</i> spp. (LN: Dhupi; HT: Tr; LU: None.); <i>Anaphalis contorta</i> (LN: Buki phool; HT: Gr; LU: None.); <i>Imperata cylindrica</i> (LN: Siru Ghaans; HT: Gr; LU: None.); <i>Hydrangea sp.</i> (LN: Nil Kamal; HT: Tr); <i>Quercus lanata</i> (LN: Baanjh; HT: Tr); <i>Prunus cerasoides</i> (LN: Painyu; HT: Tr); <i>Salix wallichiana</i> (LN: Bains; HT: Tr); <i>Populus sp.</i> (LN: Lahare pipal; HT: Tr).
Fish	None.
Herpetofauna	<i>Dendrilaphis tristis</i> (LN: Sirise Sarpa; EN: Tree snake); <i>Nanoranas p.</i> (LN: Paha; EN: Paa Frog); <i>Psammodynastes</i> sp. (LN: Black snake; EN: Mock viper); <i>Trimeresurus sp.</i> (LN: Red snake; EN: Pit viper); <i>Ovophis sp.</i> (LN: Gurbe snake; EN: Pit viper).

Birds	<i>Hirundo rustica</i> (LN: Gaunthali; EN: Barn swallow); <i>Pavo cristatus</i> (LN: Mujur; EN: Peafowl); <i>Cuculus</i> sp. (LN: Koilee; EN: Cuckoo); <i>Anthus sp.</i> (LN: Chuiya; EN: Pipit); <i>Turdoidessp.</i> (LN: Bhyakur; EN: Babler); <i>Cuculus sp.</i> (LN: Koilee; EN: Cuckoo).
Mammals	<i>Hystrix</i> sp. (LN: Dumsi; EN: Porcupine); <i>Muntiacus muntjak</i> (LN: Mirga; EN: Barking Deer); <i>Lepus sp.</i> (LN: Kharayo; EN: Hare); <i>Felis chaus</i> (LN: BanBiral; EN: Jungle Cat); <i>Canis aureus</i> (LN: Syal; EN: Jackal).
Invasive alien species	<i>Eupatorium sp.</i> (LN: Banmara; Throughwork); <i>Lantana camara</i> (LN: Lwang Phool; EN: Sage).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Chhitta Pokhari Bazar</i> ; 10 m from lake; Main Trail: Diktel-Chhitta Pokhari VDC, 6 hr trailwalk from Diktel to lake.
Land use	Forestland (10%); Shrubland (20%); Grassland (5%); Agriculture (40%); Settlement (20%); Wetland (5%).
Demography	Population:1965; Male: 918; Female: 1047; HHS: 381; Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>900.
Traditional production system	Terrace farming.
Cultural record	None.
Genesis/origin of lake	Local belief that the Goddess <i>Sita</i> used to live here; so regarded after her name as " <i>Sita Pokhari</i> " later known as Chhitta Pokhari.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock; Fuelwood; Fodder.
Cultural services	Local fair during <i>Bala Chaturthi</i> in <i>Teej</i> and <i>Mangshir</i> .

### E. Restoration/Management

Structural management	Wall around lake constructed in 2003.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** >2,000 religious visitors a year; No tourism potential.

**G. Lake condition** Degrading.

#### 4. Homma Pokhari

Code: P1-D5-004

Topo sheet no: 2686- 04B

Date of inventory: May 31, 2013



##### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°59'22.1" N; <u>Lon</u> : 86°53'46.6" E; <u>Alt</u> : 1,603 masl.
Administrative feature	EDR; Khotang district; Chisapani VDC; Ward No. 1 (Currently: Jantehunga Rural Municipality, Ward No. 5); <i>Homma Pokhari</i>
Boundary	<u>Core Area</u> : Agricultural land in west; east and in south; Mukhitam in north. <u>Basin Area</u> : Malbae-Homma Pokhari village-Chisapani trail in west; Cultivation land in east; Khiku-Chisapani road in south in South; Cultivation land and Sawa Katare in north.
Management responsibility	Pancha Kanya Yuva Samuha.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

##### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 30° C; <u>Avg. Min Temp</u> : 5° C; <u>Avg. Rainfall</u> : 148 mm/yr (DDC Profile 2007).
Area	<u>Core Area</u> : 0.1 ha; Avg. Length: 45 m; Avg. Width: 20 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 4–1 m; <u>Basin Area</u> : 5.6 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: gullies; Outlet: None.
Water Quality	<u>Physicochemical parameter</u> : pH: 5.5; Transparency: 0.1 m.
Soil feature	Grey and red color; Sandy silt loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : None.
Major plants in basin	<i>Rhododendron arboreum</i> (LN: Gurans; HT: Tr; LU: Tm, Ful); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Ful, Fd); <i>Pinus roxburghii</i> (LN: Khote salla; HT: Tr; LU: Tr); <i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Tr); <i>Artemisia</i> spp. (LN: Titepati; HT: Sh; LU: Medicine for wounds); <i>Dryopteris cochleata</i> (LN: Uniu; HT: Sh; LU: None).
Fish	None.
Herpetofauna	<i>Amolops</i> sp. (LN: Kaalo Bhyaguta; EN: Stream frog); <i>Python molurus</i> (LN: Ajingar; EN: Rock python).
Birds	<i>Corvus macrorhynchos</i> (LN: Kaag; EN: Black crow); <i>Hirundo rustica</i> (LN: Gaunthali; EN: Barn swallow); <i>Dicrurus aeneus</i> (LN: Chibe); <i>Acridotheres tristis</i> (LN: Dangre; EN: Starling).
Mammals	<i>Naemorhedus goral</i> (LN: Goral; EN: Himalayan goral); <i>Felis chaus</i> (LN: Banbiralo; EN: Jungle Cat); <i>Hystrix</i> sp. (LN: Dumsi; EN: Porcupine); <i>Muntiacus muntjak</i> (LN: Mirga; EN: Barking Deer);

Invasive alien species	<i>Canis aureus</i> (LN: Syal; EN: Jackal); <i>Macaca assamensis</i> (LN: Bandar; EN: Assamese monkey). <i>Eupatorium sp.</i> (LN: Banmara); <i>Lantana camara</i> (LN: Lwang Phool; EN: Sage).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Chisapani Bazar</i> ; 1.5 Km from lake; Main Trail: Bhanjyang Kharka-Chisapani Bazar-Chumlung; 200 m from trail to lake.
Land use	Forestland (20%); Shrubland (10%); Grassland (15%); Agriculture (40%); Settlement (5%); Wetland (5%); others (5%).
Demography	Population: 4422; Male: 2144; Female: 2278; HHs: 911; Ethnicity: Brahmin/Chhetri (10%); Janajati (85%); Dalit (5%). Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None.
Traditional production system	Terrace farming; Traditional irrigation canal.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	Homma Pokhari stands for the <i>RaniPokhari</i> in the Rai language.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock; Fodder/forage.
Cultural services	Local fair during <i>Thulo Ekadasi</i> .

### E Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** >2000 Localvisitors; Some hotels/lodges; Health post-4; Communication facilities at the Chisapani Bazaar (1.5 Km from lake). No tourism potential.

**G. Lake condition** Degrading.



## 5. Indreni Pokhari

Code: P1-D5-005

Topo sheet no: 2786- 16C

Date of inventory: May 29, 2013



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°03'16" N; <u>Lon</u> : 86°49'13.5" E; <u>Alt</u> : 1,692 masl.
Geographical position	Midlands/Slope.
Administrative feature	EDR; Khotang district; Indreni Pokhari VDC; Ward No: 6 (Currently: Khotelang Rural Municipality, Ward No. 6); Indreni Pokhari
Boundary	<u>Core Area</u> : Grassland in west and north; VDC office and health post in east; Shivalaya temple in south. <u>Basin Area</u> : Gairigau-Hile Kharka-Simpani trail in west; Horlunchha CF in east; Musmusa-Hurlunchha trail in south; Gairi Gaun-Surke trail in and Bal Daanda in north
Management responsibility	Indreni Pokhari VDC.
Wetlands type	Fresh water/natural; Lacustrine; Seasonal.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 30° C; <u>Avg. Min Temp</u> : 5° C; <u>Avg. Rainfall</u> : 148 mm/yr (DDC Profile 2007).
Area	<u>Core Area</u> : 0.1 ha; Avg. Length: 60 m; Avg. Width: 50 m; Avg. Depth: 6 ft; Max-Min Surface Water Level: 2-1 m; <u>Basin Area</u> : 3.8 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water Quality	<u>Physicochemical parameter</u> : pH: 6.5; Transparency: 0.2 m.
Soil feature	Dark and grey color; Sandy clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : None.
Major plants in basin	<i>Pinus roxburghii</i> (LN: Khote salla; HT: Tr; LU: Tm, Ful); <i>Anaphalis contorta</i> (LN: Buki phool; HT: Gr; LU: None.); <i>Imperata cylindrica</i> (LN: Siru Ghaans; HT: Gr; LU: None.); <i>Artemisia indica</i> (LN: Titepati; HT: Gr; LU: medicine); <i>Euphorbia royleana</i> (LN: Siudi; HT: Sh; LU: None); <i>Sapium insigne</i> (LN: Khirro; HT: Tr).
Fish	None.
Herpetofauna	<i>Xenocrophispiscator</i> (LN: Pani Sarpa; EN: Keelback snake); <i>Amolopssp.</i> (LN: Bhyaguta; EN: Stream Frog).
Birds	<i>Hirundo rustica</i> (LN: Gaunthali; EN: Barn Swallow); <i>Turdoides nipalensis</i> (LN: Bhyakur; EN: Spiny Babbler); <i>Cuculus sp.</i> (LN: Koilee; EN: Cuckoo); <i>Pycnonotus cafer</i> (LN: Jureli; EN: Red vented Bulbul); <i>Corvus macrorhyncus</i> (LN: Kalo Kaag; Large

	billed crow); <i>Phalacrocorax carbo</i> (LN: Jalewa; EN: Great cormorant).
Mammals	<i>Hystrix sp.</i> (EN: Porcupine; LN: Dumsi); <i>Muntiacus muntjak</i> (LN: Mirga; EN: Barking Deer); <i>Lepus sp.</i> (LN: Kharayo; EN: Hare); <i>Canis aureus</i> (LN: Syal; EN: Jackal); <i>Manis sp.</i> (LN: Salak; EN: Pangoline).
Invasive alien species	<i>Eupatorium sp.</i> (LN: Banmara; EN: Thoroughwort); <i>Lantana camara</i> (LN: Phool; EN: Sage); <i>Persicaria barbata</i> (LN: Pire Jhar; EN: Nepali knotweed, Bearded knotweed).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Sikharthumka</i> ; 50 m from lake; Main Trail: Diktel-Chhita Pokhari-Sikharthumka; 152 Km from Diktel to lake.
Land use	Forestland (30%); Shrubland (10%); Grassland (5%); Agriculture (40%); Settlement (10%); Wetland (5%).
Demography	Population:2886; Male: 1346; Female: 1540; HHs: 603. Ethnicity: <i>Janajati</i> (100%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>600.
Traditional production system	None.
Cultural record	Temple.
Genesis/origin of lake	The rainbow appears during rainy season so called " <i>Indreni Pokhari</i> " i.e., rainbow in the English language.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock; Fuelwood; Fodder.
Cultural services	Annual <i>Gai Puja</i> ; Local fair during <i>Shivaratri</i> and <i>Janai Purnima</i> .

### E. Restoration/Management

Structural management	Wall constructed around 20 years before.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

<b>F. Tourism information</b>	>500 Local visitors during festive; No hotels/lodges; No tourism potential.
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<b>G. Lake condition</b>	Degrading.
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## 6. Kaali Pokhari (Dalle Pokhari)

Code: P1-D5-006

Topo sheet no: 2786- 12

Date of inventory: June 4, 2013



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°24'15.00" N; <u>Lon</u> : 86°45'45.10" E; <u>Alt</u> : 2,459 masl.
Geographical position	Midland/Slope.
Administrative feature	EDR; Khotang; Bakachol VDC; Ward No. 9 (Currently: Aaiselukharka Rural Municipality, Ward No. 2); Deurali Bazar
Boundary	<u>Core Area</u> : Deurali-Dhikkharka Trailand forest in west; Cultivation land in east and north; Deurali bazar in south. <u>Basin Area</u> : Bhusune khola and Solukhumbu tower in west; Dhikkharka-Jhakribas-Chitrpani road in east; Katunje-Harise-Bakachol trail in south; Saure- Chhiwa trail in north.
Managementresponsibility	None.
Wetlands type	Fresh water/natural; Lacustrine; Seasonal

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 30 <sup>0</sup> C; <u>Avg. Min Temp.</u> : 5 <sup>0</sup> C; <u>Avg. Rainfall</u> : 148 mm/yr (DDC Profile 2007).
Area	<u>Core Area</u> : 0.1 ha; Avg. Length: 100 m; Avg. Width: 70 m; Avg. Depth: 0.5 m; Max-MinSurface Water Level: 2-0.3 m; <u>Basin Area</u> : 3.2 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water Quality	<u>Physicochemical parameter</u> : pH: 7; Transparency: 0.2 m.
Soil feature	Grey and dark color; Sandy clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : None.
Major plants in basin	<i>Rhododendron</i> spp. (LN: Gurans; HT: Tr; LU: Tr); <i>Pinus roxburghii</i> (LN: Khotte Salla; HT: Tr; LU: Ful, Tm); <i>Symplocos pyrifolia</i> (LN: Kholme; HT: Tr; LU: Tm); <i>Viburnum erubescens</i> (LN: Asare; HT: Sh; LU: Fd, Ful); <i>Fragaria nubicola</i> (LN: Bhui Strawberry; HT: Hr); <i>Dryopteris cochleata</i> (LN: Uniu; HT: Gr); <i>Symplocos ramosissima</i> (LN: Kharane; HT: Tr; LU: Tm, Ful); <i>Anaphalis contorta</i> (LN: Buki Phool; HT: Hr); <i>Quercus semicarpifolia</i> (LN: Khasru; HT: Tr; LU: Ful, Fd).
Fish	None.
Herpetofauna	<i>Amolops</i> sp. (LN: Kalo Bhyaguta; EN: Stream frog).
Birds	<i>Pycnonotus</i> sp. (LN: Jureli; EN: Redvented Bulbul); <i>Dicrurus aceneus</i> (LN: Chibe; EN: Bronzed Drongo); <i>Corvus</i>

	<i>macrorhynchos</i> (LN: Kaag; EN: Large billed crow); <i>Warbler sp.</i> (LN: Bam Pudke); <i>Parus sp.</i> (EN: Tit); <i>Lophura leucomelanos</i> (LN: Kalij; EN: Kaliz phesant).
Mammals	<i>Lepus sp.</i> (Hare); <i>Hystrix sp.</i> (LN: Dumsi); <i>Muntiacus muntjak</i> (LN: Ratuwa; EN: Deer); <i>Canis aureus</i> (LN: Syal; EN: Jackal).
Invasive alien species	<i>Eupatorium sp.</i> (LN: Banmara; EN: Thoroughwort); <i>Xeromphis spinosa</i> (LN: Main kanda; EN: Emetic nut).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Deurali Bazar; 300 m from lake; Main Trail: Ainselu Kharka-Deurali-Phokate Danda; About 5Km from lake.
Land use	Forestland (50%); Shrubland (20%); Grassland (15%); Agriculture (14%); Wetland (1%).
Demography	Population: 2,909; Male: 1,372; Female: 1,537; HHs: 623; Ethnicity: <i>Janajati</i> (100%); Major Religion: Buddhism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>170 no.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	in the past, water accumulated during the rainy season later turned into a permanent waterbody; "Kaali Pokhari" name came after dark color of lake water.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock; Timber; Fuelwood; Fodder/forage; Handirafts materials.
Cultural services	None.

### E. Restoration/Management

Structural management	Stone wall.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

## 7. Laamche Pokhari

Code: P1-D5-007

Topo sheet no: 2786- 12

Date of inventory: June 4, 2013



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°24'00.20" N; <u>Lon</u> : 86°45'32.30" E; <u>Alt</u> : 2,388 masl.
Geographical position	Midland/Slope.
Administrative feature	EDR; Khotang; Bakachol VDC; Ward No. 9 (Currently: Aiselukharka Rural Municipality, Ward No. 2); <i>Deurali Bazar</i>
Boundary	<u>Core Area</u> : Cultivation land in west and north; Grassland in east; Forest in west; Settlement of Deurali in south. <u>Basin Area</u> : Bhusune khola and Solukhumbu tower in west; Dhikkharka-Jhakribas-Chitrpani road in east; Katunje-Harise-Bakachol trail in south; Saure- Chhiwa trail in north.
Managementresponsibility	None.
Wetlands type	Fresh water/natural; Lacustrine; Seasonal.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 30 <sup>0</sup> C; <u>Avg. Min Temp</u> : 5 <sup>0</sup> C; <u>Avg. Rainfall</u> : 148 mm/yr (DDC Profile 2007).
Area	<u>Core Area</u> : 0.1 ha; Avg. Length: 75 m; Avg. Width: 15 m; Avg. Depth: 1.5 m; Max-MinSurface Water Level: 2-1.5 m. <u>Basin Area</u> : 1.8 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: Drain water to <i>Jhakribas</i> and <i>Deurali Bazar</i> .
Water Quality	<u>Physicochemical parameter</u> : pH: 6.5; Transparency: 0.3 m.
Soil feature	Grey and dark color; Sandy silt loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : None.
Major plants in basin	<i>Rhododendron</i> spp.(LN: Gurans; HT: Tr; LU: Puja, Ful); <i>Pinus roxburghii</i> (LN: Khote Salla; HT: Tr; LU: Tr); <i>Symplocos pyrifolia</i> (LN: Kholme; HT: Tr; LU: Tr); <i>Viburnum erubescens</i> (LN: Asare; HT: Tr; LU: Tr)); <i>Fragaria nubicola</i> (LN: Bhui Strawberry; HT: Hb); <i>Dryopteris cochleata</i> (LN: Uniu; HT: Gr); <i>Symplocos ramosissima</i> (LN: Kharane; HT: Tr; LU: Tr); <i>Anaphalis contorta</i> (LN: Buki Phool; HT: Hb); <i>Imperata cylindrica</i> (LN: Siru Ghaans; HT: Gr; LU: Livestock); <i>Polygonum barbata</i> (LN: Pire Ghaans; HT: Gr; LU: None).
Fish	None.
Herpetofauna	<i>Psammodynastessp.</i> (LN: Black snake; EN: Mock Viper).

Birds	<i>Pycnonotus</i> sp. (LN: Jureli; EN: Bulbul); <i>Dicrurus aceneus</i> (LN: Chibe; Bronzed Drongo); <i>Corvus macrorhynchos</i> (LN: KaaloKaag; EN: Large billed crow); <i>Phyllocopus</i> sp. (LN: Fisto; EN: Warbler); <i>Acridotheres tristis</i> (LN: Ruppi; EN: Starling); <i>Parus</i> sp. (LN: Fisto; EN: Tit).
Mammals	<i>Lepus</i> sp. (LN: Kharayo; EN: Hare); <i>Hystrix</i> sp. (LN: Dumsi; EN: Porcupine); <i>Muntiacus muntjak</i> (LN: Mirga; EN: Barking Deer); <i>Canis aureus</i> (LN: Syal; EN: Jackal).
Invasive alien species	<i>Eupatorium</i> sp. (LN: Banmara; EN: Thoroughwort).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Deurali Bazar</i> ; 300 m from lake; Main Trail: Ainselu Kharka-Deurali-Phokate Danda; About 5 Km from lake.
Land use	Forestland (30%); Shrubland (10%); Grassland (20%); Agriculture (30%); Settlement (5%); Wetlands (5%).
Demography	Population: 2909; Male: 1372; Female: 1537; HHs: 623; Ethnicity: Janajati (100%); Major Religion: Buddhism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>170 no.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock; Timber; Fuelwood; Fodder/forage.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

## Annex-9: Inventory of Lakes in Morang district

### 1. Betini Simsar

Code: P1-D6-001

Topo sheet no: 2687 07 A

Date of inventory: 2069. 8. 29



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°40'56.28" N; <u>Lon</u> : 87°36'34.82" E; <u>Alt</u> : 131 masl.
Geographical position	Terai.
Administrative feature	EDR; Morang district; Urlabari VDC; Ward No. 7 (Currently: Urlabari Municipality, Ward No. 2); <i>Betini</i>
Boundary	<u>Core Area</u> : Forestland Dumre village in west; Solti Khola in east; Forest in north; Forestland dam in south. <u>Basin Area</u> : Devijhoda khola in west; Mangalbare-Laxmijhar road in east; Mahendra Highway in south; Dense mixed forest in north.
Management responsibility	Betini CF and Betini Simsar Management Committee.
Wetlands type	Fresh water/natural; Riverine; Perennial.

#### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 32.9 (May). <u>Avg. Min Temp</u> : 9.5° C (Jan) (DDC Profile of Morang 2005). <u>Rainfall</u> : 1919.6 mm/yr (CBS 2012).
Area	<u>Core Area</u> : 2.8 ha; Avg. Length: 700 m Avg. Width: 350 m Avg. Depth: 2 m; Max-Min Surface Water Level: 3-1 m; <u>Basin Area</u> : 109.8 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Betini Khola; Outlet: Solti Khola.
Water quality	<u>Physicochemical parameter</u> : Temp.: 27° C; pH: 6; Transparency: 0.5 m.
Soil feature	Dark grey color; Sandy silt loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Rorippa nasturtium aquaticum</i> (LN: Simsag; HT: Sm). <i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm); <i>Albezia lebek</i> (LN: Siris; HT: Tr; LU: Tm, Ful); <i>Terminalia alata</i> (LN: Aasna; HT: Tr; LU: Tm, Ful); <i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: Tm, Ful); <i>Michellia champaca</i> (LN: Chanp; HT: Tr; LU: Tm, Fd); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Tm, Fd); <i>Bauhinia purpurea</i> (LN: Tanki; HT: Tr; LU: Tm, Fd); <i>Murraya koenigii</i> (LN: Asaare; HT: Tr; LU: Fd); <i>Terminalia chebula</i> (LN: Harro; HT: Tr; LU: NTFP); <i>Terminalia bellerica</i> (LN: Barro; HT: Tr; LU: NTFP); <i>Sapium insigne</i> (LN: Khirro HT: Tr; LU: Ful); <i>Lyonia ovalifolia</i> (LN: Angeri HT: Tr; LU: Ful); <i>Casia fistula</i> (LN: Rajbrikshya; HT: Tr; LU: Ful).
Major plants in basin	
Fish	<i>Channa stewarti</i> (LN: Hile; LU: Meat); <i>Channa punctatus</i> (LN: Garai; LU: Meat); <i>Clarius batrachus</i> (LN: Mungri; LU: Meat);

	<i>Heteroneuptes fossilis</i> (LN: Singhi; LU: Meat); <i>Punctius sophore</i> (LN: Pothi; LU: Meat); <i>Anguilla bengalensis</i> (LN: Raj Baam; LU: Meat).
Herpetofauna	<i>Pangshura sp</i> (LN: Kachuwa; EN: Tortoise or turtle); <i>Calotes versicolor</i> (LN: Chheparo; EN: Garden lizard); <i>Varanus flavescens</i> (LN: Sungohoro; EN: Golden Monitor Lizard); <i>Xenocrophis piscator</i> (LN: Pani Sarpa; EN: Keelback snake). <i>Varanus bengalensis</i> (LN: Gohoro; EN: Monitor lizard); <i>Python bivitattus</i> (LN: Ajingar; EN: Rock Python).
Birds	<i>Pisttacula karmaris</i> (LN: Suga; EN: Parrot); <i>Grus antigone</i> (LN: Saras); <i>Leptoptilossp</i> (LN: Hadifor; EN: Adjutant Stork); <i>Pycnonotussp</i> (LN: Jureli); <i>Pavo cristatus</i> (LN: Mayur; EN: Peacock); <i>Amaurornis phoenicurus</i> (LN: Sim Kukhura; EN: White breasted Waterhen); <i>Anas sp</i> (LN: PaniHaans; EN: Duck); <i>Acridotheres tristis</i> (LN: Mayna); <i>Coturnix coturnix</i> (LN: Battai); <i>Streptopelia chinensis</i> (LN: Dhukur; EN: Dove); <i>Gracula religiosa</i> (LN: Maina; EN: Hill Myna); <i>Pavo cristatus</i> (LN: Mayur; EN: Peafowl); <i>Bubulcus ibis</i> (LN: Bakulla; EN: Cattle Egret).
Mammals	<i>Sus scrofa</i> (LN: Banel; EN: Wildpig); <i>Manis</i> sp (LN: Salak; EN: Pangolin); <i>Hystrix indica</i> (LN: Dumsi; EN: Porcupine); <i>Elephas maximus</i> (LN: Hatti; EN: Elephant); <i>Felis chaus</i> (LN: Banbiralo; EN: Jungle Cat); <i>Varanus bengalensis</i> (LN: Gohoro; EN: Monitor lizard); <i>Python bivitattus</i> (LN: Ajingar; EN: Rock Python).
Invasive alien species	<i>Mikania micrantha</i> (LN: Lahare Banmara); <i>Eichhornea crassipes</i> (LN: Jalkumbhi).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Dumre</i> ; 700 m from lake; Main Trail: Manglabare-Jhate road; 1 Km from lake.
Land use	Forestland (50%); Shrubland (15%); Grassland (5%); Agriculture (20%); Settlement (5%); Lake (5%).
Demography	Population: 25742; Male: 12695; Female: 13047; HHs: 5395; Ethnicity: Brahmin/Chhetri (30%); Janajati (40%); Dalit (5%); Others (25%); Major Religion: Kirat.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>6000 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	Dammed lake.

### D. Ecosystem Goods/Services

Provisional services	Timber; Fuelwood; Fodder/forage Supply; NTFPs.
Cultural services	None.

### E. Restoration/Management

Structural management	Built up dam; Afforestation (Support from DDC and NLDC).
None-structural management	Volunteer restriction for any pollution.
Conservation plan	None.
Monitoring plan	None.



**F. Tourism information**

>10,000 annual visitors; Hotel facilities in Urlabari and Damak; Good transportation and communication facilities. Moderate tourism potential; Need promotional activities.

**G. Lake condition**

Good

## 2. Betna Tal

Code: P1-D6-002

Topo sheet no: 2687 06 B

Date of inventory: 2069. 8. 30



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°39'37.54" N; <u>Lon</u> : 87°26'22.52" E; <u>Alt</u> : 130 masl.
Geographical position	Terai.
Administrative feature	EDR; Morang district; Belbari VDC; Ward No. 2, 3, 8, 9 (Currently: Belbari Municipality, Ward No. 1, 3, 5); <i>Betna</i>
Boundary	<u>Core Area</u> : Forest in west; east and north; Simpance in south. <u>Basin Area</u> : Puranobelbar-Partaghari in west; Dense forest in east and north; Mahendra Highway in south.
Management responsibility	<i>Betna Simsar Samrakshyan Samiti</i> , Belbari-9.
Wetlands type	Fresh water/natural; Lacustrine; Permanent, Forest.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 32.9 (May). <u>Avg. Min Temp</u> : 9.5° C (Jan) (DDC Profile 2005). <u>Rainfall</u> : 1919.6 mm/yr (CBS 2012).
Area	<u>Core Area</u> : 7.2 ha; Avg. Length: 700 m; Avg. Width: 400 m; Avg. Depth: 1.5 m; Max-MinSurface Water Level: 5-1.5 m; <u>Basin Area</u> : 380.9 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: <i>Barju nala</i> ; Outlet: <i>Nala 2</i> .
Water quality	<u>Physicochemical parameter</u> : Temp.: 29.4° C; pH: 7.23; Dissolved oxygen (mg/l):3.19; Dissolved oxygen (mg/l):1.81; Turbidity (NTU): 26.01; Conductivity (µs/cm): 446; Nitrate (mg/l) I: 0.03; Total phosphorus (mg/l): 0.93 (Niraula et al. 2010); Transparency: 1.5 m.
Soil feature	Dark color; Sandy silt loam texture.
Shocks/vulnerability	Remain dried for >50 yrsfor paddy cultivation.
Major aquatic plants	<u>Core Area</u> : <i>Pistia stratoites</i> (LN: Jalkumbhi; HT: Ff); <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Ff); <i>Nelumbo nucifera</i> (LN: Kamal; HT: Ff; LU: Orn); <i>Chrysopogon aciculatus</i> (LN: Kuro; HT: Em); <i>Hydrillaverticillata</i> (LN: Namle Jhar; HT: Sm; LU: fish food); <i>Vallisneria natans</i> (LN: Phulke; HT: Sm; LU: fish food); <i>Utricularia aurea</i> (LN: Simp Ghaans; HT: Ff; LU: Medicine). Niraula and Singh (2011) reported 84 sps of aquatic plants.
Major plants in basin	<i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm); <i>Lagerstroemiaparviflora</i> (LN: Bhotdhairo; HT: Tr; LU: Ful, Tm); <i>Phyllanthus emblica</i> (LN: Amala; HT: Tr; LU: Fr, Ful); <i>Terminalia alata</i> (LN: Saj; HT: Tr; LU: Tm, Ful); <i>Ziziphus mauritiana</i> (LN: Bayar; HT: Sh; LU: Fr); <i>Bauhinia vahlii</i> (LN: Bhorla; HT: Cl); <i>Cassia fistula</i> (LN: Rajbrikshya; HT: Tr; LU: medicinal). Niraula and Singh (2011) reported 32 sps pf epiphytic plants.

Fish	<i>Punticus sophore</i> (LN: Pothi; LU: Meat); <i>Channa stewarti</i> (LN: Hile; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat).
Herpetofauna	<i>Sinomicrurus</i> sp (LN: Naag; EN: Asian Coralsnake); <i>Xenochrophis</i> sp (LN: Pani Sarpa; Keelback snake); <i>Rana</i> sp (LN: Bhyaguto; Frog); <i>Bufo</i> sp. (LN: Khasre Bhyaguto; EN: Toad); <i>Varanus bengalensis</i> (LN: Gohoro; EN: Common Monitor Lizard).
Birds	<i>Amaurornis phoenicurus</i> (LN: Sim Kukhura; EN: White breasted Waterhen); <i>Glaucidium cuculoides</i> (LN: Ullu, EN: Barred owlet); <i>Lanius schach</i> (LN: Bhadrari; EN: Long-tailed Shrike); <i>Eudynamis scolopacea</i> (LN: Koilee; EN: Asian koel); <i>Monticola cinorhynchus</i> (LN: Chanchar; Blue Capped Rock Thrush).
Mammals	<i>Axis axis</i> (LN: Chittal; EN: Spotted Deer); <i>Sus scrofa</i> (LN: Bandel; EN: Wildpig); <i>Felis chaus</i> (LN: Banbiralo; EN: Jungle Cat); <i>Pteropus</i> sp. (LN: Chamero; EN: Bat); <i>Panthera pardus</i> (LN: Chituwa; EN: Common Leopard).
Invasive alien species	<i>Eupatorium</i> sp (LN: Banmara); <i>Lantana camara</i> (LN: Lwang Phool; EN: Sage); <i>Eichhornia crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth)
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Belbari</i> ; 1 Km from lake; Main Trail: East-West Highway; Trail very close from lake.
Land use	Forestland (70%); Shrubland (5%); Agriculture (20%); Settlement (5%).
Demography	Population: 29,865; Male: 14,565; Female: 15,300; HHs: 5170; Ethnicity: Brahmin/Chhetri (25%); Janajati (70%); Dalit (5%); Major Religion: Hinduism/Buddhism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	NA.
Traditional production system	Traditional paddy cultivation in the south.
Traditional water use practices	Farmers managed canal (1) irrigating in >500 ha.
Cultural record	Bhimsenthasn Temple.
Genesis/origin of lake	Dammed lake.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Water for livestock; Timber; Fiber; Fuelwood, Fodder/forage; NTFPs.
Cultural services	Aesthetic; Recreational and educational services; Festive on Falgun 14 to 21; Boating facilities available.

### E. Restoration/Management

Structural management	Dam; Afforestation; Resting places; Picnic spot; Vehicle parking facilities; Support from NLCDC, NEFEJ and UNDP/SGP.
None-structural management	Available (Both formal and informal rules); Parking fee in operation.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

>100,000 annual visitors; Hotels facilities in Belabari and Itahari cities; Good transportation facilities; Tourism potential high; Needs promotional activities.

### G. Lake condition

Good.

### 3. Baghjoda Pokhari

Code: P1-D6-003

Topo sheet no: 2687 06 B

Date of inventory: 2069.8.29



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°40'41.66" N; <u>Lon</u> : 87°24'5.45" E; <u>Alt</u> : 140 masl.
Geographical position	Terai.
Administrative feature	EDR; Morang district; Indrapur VDC; Ward No. 1 (Currently: Sundarharaicha Municipality, Ward No. 10); <i>Bhagjhoda</i> .
Boundary	<u>Core Area</u> : Settlement of Jhoda in east and west; Community forest in north; Khorsane Bazar in south. <u>Basin Area</u> : Kerabari-Khursane road in west; Kusumegauda-Kisti chaur trail in in east; Mahendra highway in south; Community forest in north
Managementresponsibility	Sukana Community Forest User Group.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max</u> : <u>Temp</u> : 32.9 (May). <u>Avg. Min</u> : 9.5° C (Jan) (DDC Profile 2005). <u>Rainfall</u> : 1919.6 mm/yr (CBS 2012).
Area	<u>Core Area</u> : 1.9 ha; Avg. Length: 500 m; Avg. Width: 30 mAvg. Depth: 3 m; Max-Min Surface Water Level: 6-1 m; <u>Basin Area</u> : 69.6 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: Belepur irrigation canal.
Water quality	<u>Physicochemical parameter</u> : PH: 28° C; pH: 7.3; Transparency: 0.25 m.
Soil feature	Dark grey color; Sandy clay loam texture.
Shocks/vulnerability	Encroachment for settlement.
Major aquatic plants	<u>Core Area</u> : <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Sm; LU: Fertilizer); <i>Fern sp.</i> (LN: Unio; HT: Sm; LU: Fd); <i>Colocasia esculenta</i> (LN: Karkalo; HT: Sm; LU: Food).
Major plants in basin	<i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm); <i>Albezia lebek</i> (LN: Siris; HT: Tr; LU: Tm, Ful); <i>Dalbergia sisso</i> (LN: Sisau; HT: Tr; LU: Tm, Ful); <i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: Tm, Ful); <i>Acanthocephaluschinensis</i> (LN: Kadam; HT: Tr; LU: Tm, Fd); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Tm, Fd); <i>Bauhinea purpurea</i> (LN: Tanki; HT: Tr; LU: Fd); <i>Viburnum erubescens</i> (LN: Asaare; HT: Tr; LU: Fd).
Fish	<i>Channa stewarti</i> (LN: Hile; LU: Meat); <i>Channa punctatus</i> (LN: Garai; LU: Meat); <i>Clarias batrachus</i> (LN: Mungri; LU: Meat); <i>Heteroneuptes fossilis</i> (LN: Singhi; LU: Meat); <i>Punticussophore</i> (LN: Pothi; LU: Meat).

Herpetofauna	<i>Calotes versicolor</i> (LN: Cheparo; EN: Common lizard); <i>Manissp.</i> (LN: Salak; EN: Pngolin); <i>Varanus flavescens</i> (LN: Sungohoro; EN: Golden Monitor Lizard); <i>Cryptelytrops albolabris</i> (LN: Hareu Sarpa; EN: White Lipped-Green Pit Viper).
Birds	<i>Psittaculasp.</i> (LN: Suga; EN: Parakeet); <i>Acridotheres tristis</i> (LN: Maina); <i>Streptopelia decaocto</i> (LN: Dhukur); <i>Dendrocopossp.</i> (LN: Lahache; EN: Woodpecker); <i>Pavo cristatus</i> (LN: Mayur); <i>Ardea cinerea</i> (LN: Bakulla; EN: Grey Heron); <i>Amaurornis phoenicurus</i> (LN: Sim Kukhura; EN: White breasted Waterhen).
Mammals	<i>Muntiacus muntjak</i> (LN: Mriga; EN: Barking Deer); <i>Lepussp.</i> (LN: Kharayo); <i>Hystrix indica</i> (LN: Dumsi; Porcupine); <i>Panthera pardus</i> (LN: Chitwa; EN: Common leopard); <i>Macaca mulatta</i> (LN: Bandar; EN: Rehsus monkey); <i>Sus scrofa</i> (LN: Bandel; EN: Wildpig); (LN: Lokharke; EN: Squirrel); <i>Canis aureus</i> (LN: Syal; EN: Jackal); <i>Felis chaus</i> (LN: Banbiralo; EN: Jungle Cat); <i>Martes sp.</i> (LN: Malsapro; EN: Yellothroated Marten); <i>Semnopithecussp.</i> (LN: Dhedu; EN: Hanuman Langur); <i>Axis axis</i> (LN: Chittal; EN: Spotted Deer).
Invasive alien species	<i>Mikania micrantha</i> (LN: Lahare Banmara; EN: Bitter Vine, American Roap); <i>Ipomea carnea</i> (LN: Besharam; EN: Bush Morning Glory).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Baghjoda</i> ; 200 m from lake; Main Trail: East-west highway; 2 Km from lake.
Land use	Forestland (70%); Shrubland (5%); Agriculture (20%); Settlement (2%); Lake (3%).
Demography	Population: 8250; Male: 3920; Female: 4330; HHs: 1500; Ethnicity: Brahmin/Chhetri (25%); Janajati (55%); Dalit (13%); Others (7%); Major Religion: Kirat.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About 600 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmer managed canal irrigating to >40 ha.
Cultural record	Chandanithan temple.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Water for livestock.
Cultural services	Local fair during <i>Udhauli</i> and <i>Ubhauri</i> at Chandanithan; <i>Chandi Nach</i> in <i>Baiskh Purnima</i> and <i>Dhimal Mela</i> in <i>Baisakh 15</i> .

### E. Restoration/Management

Structural management	Built up of dam; Afforestation.
None-structural management	Informal rules.
Conservation plan	Plan of CF available.
Monitoring plan	None.

**F. Tourism information** >15000 annual visitors during local fair; No tourism potential.

**G. Lake condition** Degrading.

#### 4. Dhanpalgadi Cluster Lake

Code: P1-D6-004

Topo sheet no: 2687 06 D

Date of inventory: 2069. 8 30



##### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°35'42.36" N; <u>Lon</u> : 87°23'44.85" E; <u>Alt</u> : 104 masl.
Geographical position	Terai.
Administrative feature	EDR; Morang district; Kaseni VDC; Ward No. 2; <i>Dhanpalgadi</i> .
Boundary	<u>Core Area</u> : Forest in all directions. <u>Basin Area</u> : <i>Lohandra khola</i> in west; <i>Darlokna Khola</i> in east; Chatara main canal and settlement of Kaseni in south; Mathillo Kaseni-Shobapur trail in north.
Management responsibility	Dhanpalgadi Conservation Committee.
Wetlands type	Fresh water/natural; Palustrine; Forest.

##### B. Ecological Feature

Climatic feature	<u>Avg. Max</u> : <u>Temp</u> : 32 <sup>0</sup> .9 (May). <u>Avg. Min</u> : 9.5 <sup>0</sup> C (Jan) (DDC Profile 2005). <u>Rainfall</u> : 1919.6 mm/yr (CBS 2012).
Area	<u>Core Area</u> : 10 ha; Avg. Length: 300m; Avg. Width: 200 m; Avg. Depth: 3 m; Max-Min Surface Water Level: 4-2 m; <u>Basin Area</u> : 20 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: Small drainage.
Water quality	<u>Physicochemical parameter</u> : Temp. 28 <sup>0</sup> C; pH: 7.5; Transparency: 0.25 m.
Soil feature	Dark grey color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Eichhornia crassipes</i> (LN: Jalkumbhi; HT: Ff; LU: Fd for pig); <i>Pistia stratoites</i> (LN: Jalkumbhi; HT: Ff; LU:); <i>Alocasia sp.</i> (LN: Dalkachhu; HT: Ff; LU: Food); <i>Nelumbonucifera</i> (LN: Kamal; HT: Sm; LU: Orn); <i>Chrysopogon aciculatus</i> (LN: Kuro; HT: Em; LN: Fd).
Major plants in basin	<i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm, Ful); <i>Syzygium cuminii</i> (LN: Jamun; HT: Tr; LU: Fr); <i>Sterculia villosa</i> (LN: Odane; HT: Tr); <i>Alstonia scholaris</i> (LN: Chhatiwan; HT: Tr; LU: med); <i>Albizia chinensis</i> (LN: Siris; HT: Tr; LU: Ful, Tm); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Tm, Ful); <i>Cassia fistula</i> (LN: Rajbrikshya; HT: Tr; LU: Fd, Med).
Fish	<i>Clarias batrachus</i> (LN: Mungri; LU: Meat); <i>Monopterus cuchia</i> (LN: Bam; LU: Meat); <i>Clupisoma montana</i> (LN: Kachu; LU: Meat).
Herpetofauna	<i>Naja naja</i> . (LN: Goman; EN: Cobra); <i>Ptyas mucosa</i> (LN: Dhaman; EN: Rat snake); <i>Xenochrophis sp.</i> (Dhodiya; EN: Keelback)

Birds	snake); <i>Mabuya sp.</i> (LN: Kalo Chheparo/Bhanemungro; EN: Skink); <i>Calotessp.</i> (LN: Rato Chheparo; EN: Lizard). <i>Acridotheressp.</i> (LN: Ruppi; EN: Starling); <i>Streptopeliasp.</i> (LN: Dhukur; EN: Dove); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow); <i>Seicercussp.</i> (LN: Fisto; EN: Warbler); <i>Gypssp.</i> (LN: Giddha; EN: Vulture).
Mammals	<i>Canis aureus</i> (LN: Syal; EN: Jackel); <i>Lepus sp.</i> (LN: Kharayo; EN: Hare).
Invasive alien species	<i>Eupatorium sp.</i> (LN: Banmara; EN: Thoroughwort); <i>Eichhornia crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Kaseni</i> ; 600 m from lake; Main Trail: Belbari agriculture road– Kaseni; 600 m from lake.
Land use	Forestland (20%); Shrubland (5%); Grassland (2%); Agriculture (52%); Settlement (20%); Wetland (1%).
Demography	Population: 7000; Male: 3400; Female: 3600; HHs: 5170; Ethnicity: Brahmin/Chhetri (15%); Janajati (80%); Dalit (5%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>100 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Religious/ritual pond of the Dhimal community (7).
Cultural record	Archaeological record (Royal palace of King Dhanpal in ancient time). <i>Tamrapatra</i> and archaeological brick; Dhanpalgadi temple; Belief as holy place.
Genesis/origin of lake	King Dhanpal constructed lake cluster (7) in ancient time.

### D. Ecosystem Goods/Services

Provisional services	Fuelwood; NTFPs just started in Kaseni.
Cultural services	Aesthetic; Religious; Recreational and educational services; <i>Siruwa Mela</i> on <i>Baisakh 10<sup>th</sup></i> .

### E. Restoration/Management

Structural management	Dam; Afforestation; Rehabilitation of ponds supported by DDC Morang, and NEFEJ separately.
Non-structural management	Restriction for any detrimental activities.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

>10,000 annual visitors; Local tea shops; Good transportation facilities; Moderate tourism potential; Needs infrastructure and human resource development, and promotional activities.

### G. Lake condition

Good.

## 5. Hasina Simsar Pokhari

Code: P1-D6-005

Topo sheet no: 2687 06 A

Date of inventory: 2069. 8. 29



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26 <sup>0</sup> 41'30.03" N; <u>Lon</u> : 87 <sup>0</sup> 19'02.95" E; <u>Alt</u> : 136 masl.
Geographical position	Terai.
Administrative feature	EDR; Morang district; Sundarpur VDC; Ward No. 6; <i>Mahiswor Jhor</i> , Hasina.
Boundary	<u>Core Area</u> : Dipo Khola in east; Budi Khola in west; CF in north; Tinpaine in south. <u>Basin Area</u> : Dipo Khola and agricultural land in east; Budi Khola in west; CF in north; Tinpaine village in south.
Management responsibility	Namuna CF and Hasina Simsar Committee.
Wetlands type	Fresh water/natural; Riverine; Perrenial.

### B2. Ecological Feature

Climatic feature	<u>Avg. Max: Temp</u> : 32 <sup>0</sup> .9 (May). <u>Avg. Min</u> : 9.5 <sup>0</sup> C (Jan) (DDC Profile 2005). <u>Rainfall</u> : 1919.6 mm/yr (CBS 2012).
Area	<u>Core Area</u> : 1.2 ha; Avg. Length: 1000 m; Avg. Width: 450 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 4-1 m; <u>Basin Area</u> : 69.3 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Char Bhulke; Hasina Khola: Outlet: Small stream towards Budhi Khola.
Water quality	<u>Physicochemical parameter</u> : Temp.: 28 <sup>0</sup> C; pH: 8; Transparency: 0.25 m.
Soil feature	Dark grey color; Sandy clay loam texture.
Shocks/vulnerability	Encroachment for settlement.
Major aquatic plants	<u>Core Area</u> : <i>Azolla sp.</i> (LN: Nakai; HT: Fl, LU: Fertilizer, Fish food). <i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm); <i>Albezia lebek</i> (LN: Siris; HT: Tr; LU: Tm, Ful); <i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Tm, Ful); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Ful, Fd); <i>Michellia champaca</i> (LN: Chanp; HT: Tr; LU: Tm, Fd); <i>Anthocephalus chinensis</i> (LN: Kadam; HT: Tr; LU: Tm, Fd); <i>Bauhinea purpurea</i> (LN: Tanki; HT: Tr; LU: Fd); <i>Viburnum erubescens</i> (LN: Asaare; HT: Tr; LU: Fd); <i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: Fd, Ful).
Major plants in basin	
Fish	<i>Channa punctatus</i> (LN: Garai; LU: Meat); <i>Clarias batrachus</i> (LN: Mungri; LU: Meat); <i>Heteroneuptes fossilis</i> (LN: Singhi; LU: Meat); <i>Punticus sp.</i> (LN: Sidhra; LU: Meat); <i>Punticus sopher</i> (LN: Pothi; LU: Meat).
Herpetofauna	<i>Manis sp.</i> (LN: Salak; EN: Pangolin); <i>xenochropis piscator</i> (LN: Pani Sarpa); <i>Varanus flavescens</i> (LN: Sungohoro; EN: Monitor lizard); <i>Trimeresurus sp.</i> (LN: Hareu; EN: Pit viper).



Birds	<i>Leptoptilos javanicus</i> (LN: Bhudifor; EN: Lesse Adjutant); <i>Anas sp.</i> (LN: PaniHaans; EN: Duck). <i>Psittaculasp.</i> (LN: Suga; EN: Parakeet); <i>Acridotheres tristis</i> (LN: Maina); <i>Turdoides nipalensis</i> (LN: Kande Bhyakur; EN: Spiny Bbler); <i>Streptopelia chinensis</i> (LN: Dhukur; EN: Dove <i>Dendrocopossp.</i> (LN: Lahache; EN: Woodpecker); <i>Pavo cristatus</i> (LN: Mayur; EN: Peafowl); <i>Ardea cinerea</i> (LN: Bakulla; EN: Grey Heron); <i>Amaurornis phoenicurus</i> (LN: Sim Kukhura; EN: White breasted Waterhen); <i>Garrulax sp.</i> (LN:Soairane Toriganda; EN: Laughing Thrush); <i>Eudynamys scolopacea</i> (LN: Koilee; EN: Asian koel); <i>Monticola cinorhynchus</i> (LN: Chanchar; EN: Blue Capped Rock Thrush).
Mammals	<i>Panthera tigris</i> (LN: Bagh; EN: Tiger); <i>Muntiacus muntjak</i> (LN: Raatuwa/Mriga; EN: Barking Deer); <i>Hystrix indica</i> (LN: Dumsi; EN: Indian Crested Porcupine); <i>Caprolagus sp.</i> (LN: Kharayo; EN: Rabbit); <i>Sus scrofa</i> (LN: Bandel; EN: Wildpig); <i>Canis aureus</i> (LN: Syal; EN: Jackal); <i>Felis chaus</i> (LN: Banbiralo; EN: Jungl Cat); <i>Martessp.</i> (LN: Malsapro; EN: Yellow Throated Marten); <i>Funambulussp.</i> (LN: Lokharkhe; EN: Squirrel).
Invasive alien species	<i>Eichhornea crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Lati Jhora</i> ; 500 m from lake; Main Trail: Bansbari-Tinpaini–Lati jhora; 500 m from lake.
Land use	Forestland (50%); Shrubland (10%); Grassland (15%); Lake (25%).
Demography	Population: 1657; Male: 816; Female: 841; HHs: 334; Ethnicity: Brahmin/Chhetri (40%); Janajati (45%); Dalit (10%); Others (5%); Major Religion: Buddhism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>1000 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmer managed canal.
Cultural record	Statue of Naag (Cobra) in lake; Considered holy.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Fishery, Timber supply; Fuelwood &Fodder supply.
Cultural services	Worship during festivals for the <i>Naag Puja</i> and <i>Devi puja</i> ; Recreational

### E. Restoration/Management

Structural management	Built up of dams; Afforestation.
None-structural management	Informal rules as per plan of CF in operation.
Conservation plan	Plan of CF.
Monitoring plan	None.

### F. Tourism information

Some religious visitors; No tourism potential.

### G. Lake condition

Degrading

## 6. Rajarani Pokhari (Raja Pokhari; Rani Pokhari& Rajkumari Pokhari)

Code: P1-D6-006

Topo sheet no: 2687 06B

Date of inventory:



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°44'54.76"; <u>Lon</u> : 87°28'54.70" E; <u>Alt</u> : 476 masl.
Geographical position	Terai.
Administrative feature	EDR; Morang district; Bhogateni VDC; Ward No. 8 (Currently: Letang Municipality, Ward No. 4); <i>Rajarani</i> , Dhohi and Ganeshpur.
Boundary	<u>Core Area</u> : Forest in all directions. <u>Basin Area</u> : Dhobidada in west; Chisan khola in east; Letanbazar-Bhalugaude trail in south; Lokhara-Turke trail in north.
Management responsibility	Rajarani Lake Conservation Committee.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 32 <sup>o</sup> .9 (May). <u>Avg. Min Temp</u> : 9.5 <sup>o</sup> C (Jan) (DDC Profile 2005). <u>Rainfall</u> : 1919.6 mm/yr (CBS 2012).
Area	<u>Core Area</u> : 8.4 ha; Avg. Length: 300 m; Avg. Width: 200 m; Avg. Depth: 2 m; Max-MinSurface Water Level: 3-1. m; <u>Basin Area</u> : 62.1 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 20 <sup>o</sup> C; pH: 6.5; Transparency: 0.5 m.
Soil feature	Dark grey color; Sandy clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Nymphaeasp.</i> (LN: Kamal; HT: Ff; LU: Orn); <i>Nelumbo nucifera</i> (LN: Kamal; HT: Ff; LU: Orn); <i>Cyperussp.</i> (LN: Mothe; HT: Em; LU: Grass); <i>Fimbristylis sp.</i> (LN: Mothe; HT: Em; LU: Fd).
Major plants in basin	<i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm); <i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Tm, Ful); <i>Castanopsissp.</i> (LN: Katus; HT: Tr; LU: Ful, Tm); <i>Tetrameles nudiflora</i> (LN: Mainakath; HT: Tr; LU: Tm, Ful); <i>Macaranga denticulata</i> (LN: Maletto; HT: Tr; LU: Ful); <i>Phyllanthus emblica</i> (LN: Amala; HT: Sh; LU: Med). Area is considered as orchid sanctuary with 45 species (Shakya and Bajracharya 2005).

Fish	<i>Heteroneuptes fossilis</i> (LN: Singi; LU: Meat); <i>Channastewarti</i> (LN: Hille; LU: Meat).
Herpetofauna	<i>Ophiophagus hannah</i> (LN: Goman; EN: King cobra); <i>Trimeresurus</i> sp. (LN: Hareu; EN: Pit viper); <i>Rana</i> sp. (LN: Bhyaguto; EN: Frog); <i>Bufo</i> sp. (LN: Khasre Bhyaguto; EN: Toad).
Birds	<i>Turdoides</i> sp. (LN: Vyakur; EN: Babbler); <i>Streptopelia chinensis</i> (LN: Dhukur; EN: Dove); <i>Gracula religiosa</i> (LN: Maina; EN: Hill Myna); <i>Pavo cristatus</i> (LN: Mayur; EN: Peafowl); <i>Bubulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Amaurornis phoenicurus</i> (LN: Sim Kukhura; EN: White breasted Waterhen); <i>Anas</i> sp. (LN: PaniHaans; EN: Duck).
Mammals	<i>Manis</i> sp. (LN: Salak; EN: Pangoline); <i>Canis aureus</i> (LN: Syal; EN: Jackel); <i>Lepus</i> sp. (LN: Kharayo; EN: Hare); <i>Axis axis</i> (LN: Chittal; EN: Spotted Deer); <i>Panthera pardus</i> (LN: Chituwa; EN: Common Leopard); <i>Sus scrofa</i> (LN: Bandel; EN: Wildpig); <i>Felis chaus</i> (LN: BanBiral; EN: Jungle Cat); <i>Petaurista</i> sp. (LN: Rajpanchi; EN: Flying squirrel).
Invasive alien species	<i>Eupatorium</i> sp. (LN: Banmara; m EN: Thoroughwort); <i>Mikania micrantha</i> (LN: Lahare Banmara; EN: Bitter Vine).
Endemic plant/animal	None

### C. Socio-Economy at Basin

Nearby settlement	<i>Dhobidada</i> ; 500 m from lake; Main Trail: Belbari agriculture road–Khairani-Rajarani; 10 Km from Belbari to lake.
Land use	Forestland (60%); Shrubland (5%); Grassland (2%); Agriculture (20%); Settlement (10%); Wetland (3%).
Demography	Population: 270; Male: 160; Female: 150; HHs: 45; Ethnicity: <i>Janajati</i> (100%); Major Religion: Hinduism/Buddhism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	300 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmer managed canal.
Cultural record	Rajarani considered as origin place of the Dhimial community.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Irrigation in 26 ha; Domestic water supply; Fuelwood; Timber.
Cultural services	Recreational and educational services; Historic site as origin of the Dhimial community; Local fair in Baisakh 2 <sup>nd</sup> (Dhimial people meet once in a year at this place).

### E. Restoration/Management

Structural management	Dam; Afforestation.
None-structural management	None.
Conservation plan	Available.
Monitoring plan	None.

### F. Tourism information

>20,000 annual visitors; Hotel facilities in Letang Bazar; Good transportation and communication facilities; Tourism potential high; Needs infrastructure, human resources development and promotional activities for cultural tourism.

### G. Lake condition

Degraded

## 7. Raja Birat ko Pokhari

Code: P1-D6-007

Topo sheet no: 2687 10 A

Date of inventory: 2069. 8. 29



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°23'37.90" N; <u>Lon</u> : 87°16'15.26" E; <u>Alt</u> : 68 masl.
Geographical position	Terai.
Administrative feature	EDR; Morang district; Buddhanagar VDC; Ward No. 5 (Currently: Biratnagar Sub-Metropolitan City, Ward No. 18); <i>Bhedivari</i>
Boundary	<u>Core Area</u> : Mud embankment in all directions. <u>Basin Area</u> : India in west; Khokshaha-Materwa road in east; Cultivation land in south; Dense settlement of Rani in north.
Management Responsibility	Community ( <i>Raja Birat prachin Durbar Khoj Tatha Samrakshyan Samiti</i> ).
Wetlands type	Fresh water/natural; Lacustrine; Seasonal.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 32°0.9 (May). <u>Avg. Min Temp</u> : 9.5° C (Jan) (DDC Profile 2005). <u>Rainfall</u> : 1919.6 mm/yr (CBS 2012).
Area	<u>Core Area</u> : 1.1 ha including 5 ponds; Avg. Length: Around 50 m in each pond; Avg. Width: Around 50 m in each pond; Avg. Depth: 1 m; Max-MinSurface Water Level: 3-0.5 m; <u>Basin Area</u> : 57.6 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 28° C; pH: 7.5; Transparency: 0.25 m.
Soil feature	Dark grey color; Sandy silt loam texture.
Shocks/vulnerability	Encroachment for settlement.
Major aquatic plants	<u>Core Area</u> : <i>Eichhornea crassipes</i> (LN: Jalkhumbi; HT: Sm; LU: None); <i>Gonostegia pentandra</i> (LN: SimeJhar; HT: Sm; LU: None).
Major plants in basin	<i>Anthocephalus chinensis</i> (LN: Kadam; HT: Tr; LU: Ful); <i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Tm, Fd); <i>Bambusa</i> spp. (LN: Bans; HT: Gr; LU: Fd, Handicraft); <i>Eucalyptussp.</i> (LN: Masala; HT: Tr; LU: Fd, Ful).
Fish	<i>Channa punctatus</i> (LN: Garai; LU: Meat); <i>Clarias batrachus</i> (LN: Mungri; LU: Meat); <i>Heteroneuptes fossilis</i> (LN: Singhi; LU: Meat); <i>Amphipnous cuchia</i> (LN: Hile Baam; LU: Meat); <i>Bellamyas sps</i> (LN: Ghonggi; LU: Meat).

Herpetofauna	<i>Calotes versicolor</i> (LN: Chheparo; EN: Common Garden Lizard); <i>Amphiesma sp.</i> (LN: Harahara Sarpa; EN: Keelback snake).
Birds	<i>Anassp.</i> (LN: Pani haans; EN: Duck).
Mammals	<i>Canis aureus</i> (LN: Syal; ENL Jackle); <i>Caprologus sp</i> (LN: Kharayo; EN: Rabbit); <i>Vulpessp.</i> (LN: Fyauro; EN: Fox).
Invasive alien species	<i>Eichhornea crassipes</i> (LN: Jalkhumbi; EN: Water Hyacinth).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Materwa</i> ; 200 m from lake; Main Trail: Biratnagar-Rani road; 2 Km from Biratnagar to lake.
Land use	Shrubland (10%); Grassland (5%); Settlement (70%); Lake (5%); Other (10%).
Demography	Population: 1199; Male: 638; Female: 561; HHS: 310; Ethnicity: Brahmin/Chhetri (25%); Janajati (35%); Dalit (30%); Others (10%); Major Religion: Hinduism
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>300 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Traditional Kuwa (1).
Cultural record	Archaeological record (Found 100 kg <i>Talcha</i> in 1973).
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Fish supply; Fodder/forage.
Cultural services	Historic site as the kingdom of king Birat.

### E. Restoration/Management

Structural management	Built up of dams; Afforestation.
Non-structural management	Volunteer restriction for any kind of pollutions.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degraded.

## 8. Raja Dhanpalthan Pokhari

Code: P1-D6-008

Topo sheet no: 2687 10 B

Date of inventory: 2069. 8. 29



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°26'47.87" N; <u>Lon</u> : 87°22'40.73" E; <u>Alt</u> : 70 masl.
Geographical position	Terai.
Administrative feature	EDR; Morang district; Urlabari Municipality; <i>Betine</i>
Boundary	<u>Core Area</u> : Cultivation land in all direction. <u>Basin Area</u> : Cultivation land in west; Kadmaha-Nocha road in east; Harkapur-Kadmaha road in south; <i>Hulaki Sadak</i> in north. <i>Dhanpal Samrachan Samiti</i> , Kadmaha.
Management responsibility	
Wetlands type	Fresh water/natural; Lacustrine; Seasonal.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 32 <sup>o</sup> .9 (May). <u>Avg. Min Temp</u> : 9.5 <sup>o</sup> C (Jan) (DDC Profile 2005). <u>Rainfall</u> : 1919.6 mm/yr (CBS 2012).
Area	<u>Core Area</u> : 0.7 ha; Avg. Length: 90 m; Avg. Width: 50 m; Avg. Depth: 2 m; Max–MinSurface Water Level: 3-0.5 m; <u>Basin Area</u> : 75.3 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 27 <sup>o</sup> C; pH: 7.8; Transparency: 0.25 m.
Soil feature	Dark grey color; Sandy clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Nymphaeasp.</i> (LN: Kamal; HT: Sm; LU: Ornamental); <i>Eichhornea crassipes</i> (LN: Jalkumbhi; HT: Sm; LU: Food for Pig).
Major plants in basin	<i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm); <i>Albezia lebek</i> (LN: Siris; HT: Tr; LU: Tm, Ful); <i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Tm, Ful); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Ful, Fd); <i>Eucalyptus sp.</i> (LN: Masala; HT: Tr; LU: Ful, Fd); <i>Anthocephalus chinensis</i> (LN: Kadam; HT: Tr; LU: Tm, Fd); <i>Litsea monopetala</i> (LN: Kutmiro; HT: Tr; LU: Fd, Ful, Tm); <i>Cassia fistula</i> (LN: Rajbrikshya; HT: Tr; LU: Fd, Ful, Med); <i>Bambusa spp.</i> (LN: Bans; HT: Gr; LU: Fd)
Fish	<i>Channa punctatus</i> (LN: Garai; LU: Meat); <i>Clarias batrachus</i> (LN: Mungri; LU: Meat); <i>Heteroneuptes fossilis</i> (LN: Singhi; LU: Meat); <i>Punticussp.</i> (LN: Sidhra; LU: Meat); <i>Punticussophore</i> (LN: Pothi; LU: Meat); <i>Macrogathussp.</i> (LN: Baam; LU: Meat); <i>Labeo</i>

Herpetofauna	<i>rohita</i> (LN: Rahu; LU: Meat); <i>Cirrhinus mrigala</i> (LN: Naini; LU: Meat); <i>Catla Catla</i> (LN: Vyakur; LU: Meat). <i>Naja naja</i> (LN: Goman; EN: King Cobra); <i>Xenochrophissp.</i> (LN: Dhodiya; EN: Marshsnake); <i>Varanus flavescens</i> (LN: Sungohoro; EN: Golden Monitor Lizard); <i>Ptyas mucosa</i> (LN: Dhaman; EN: Rat Snake); <i>Calotes versicolor</i> (LN: Bagaiche Cheparo; EN: Garden Lizard).
Birds	<i>Gypssp.</i> (LN: Giddha; EN: Vulture); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow); <i>Parussp.</i> (LN: Fisto; EN: Tit); <i>Streptopeliasp.</i> (LN: Dhukur; EN: Dove); <i>Acridotheres tristis</i> (LN: Ruppi; EN: Common Myna).
Mammals	<i>Caprologus sp.</i> (LN: Kharayo; EN: Rabbit); <i>Canis aureus</i> (LN: Syal; EN Jackal); <i>Felis chaus</i> (LN: Banbiralo; EN: Jungle Cat); <i>Herpestessp.</i> (LN: Nyauri musa; EN: Mongoose); <i>Vulpessp.</i> (LN: Fyauuro; EN: Fox).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Harakpur</i> ; 500 m from lake; Main Trail: Hulaki sadak (Rangeli road)-Nocha; 50 m from trail to lake.
Land use	Forestland (20%); Shrubland (10%); Grassland (40%); Settlement (20%); Lake (5%).
Demography	Population: 2057; Male: 1000; Female: 1057; HHs: 355; Ethnicity: Brahmin/Chhetri (5%); Janajati (75%); Dalit (15%); Others (5%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>700 no.
Traditional production system	Traditional paddy cultivation in 45 ha.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Fish supply; Water for livestock.
Cultural services	Historic place; Believed to be the kindom of King Dhanpal; Picnic spot; Local fair during <i>Baisakh Siruwa Parba</i> .

### E. Restoration/Management

Structural management	Afforestation.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** Only visitors during festivals; No tourism potential.

**G. Lake condition** Degrading.

## 9. Rani Pokhari

Code: P1-D6-009

Topo sheet no: 2687 10 A

Date of inventory: 2069. 8. 29



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°24'19.52" N; <u>Lon</u> : 87°16'35.13" E; <u>Alt</u> : 66 masl.
Geographical position	Terai.
Administrative feature	EDR; Morang district; Biratnagar Municipality; Ward No. 22 (Currently: Biratnagar Sub-Metropolitan City, Ward No. 17); Rani Pokhari
Boundary	<u>Core Area</u> : Natural embankment and Agricultural land in all directions. <u>Basin Area</u> : Dense settlement of Rani in west; Biratnagar Branch Canal in east; Rani-Buddhanagar road in south; Cultivation land in north.
Management responsibility	Rani Mai Temple Management Committee.
Wetlands type	Fresh water/natural; Lacustrine; Seasonal.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 32° 9 (May). <u>Avg. Min Temp.</u> : 9.5° C (Jan) (DDC Profile 2005). <u>Rainfall</u> : 1919.6 mm/yr (CBS 2012).
Area	<u>Core Area</u> : 0.3 ha; Avg. Length: 90 m; Avg. Width: 80 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 3-0.5 m; <u>Basin Area</u> : 75.3 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 28° C; pH: 7; Transparency: 0.25 m.
Soil feature	Dark grey color; Sandy clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : None.
Major plants in basin	<i>Imperata cylindrica</i> (LN: Siru; HT: Gr; LU: Fd); <i>Cynodon dactylon</i> (LN: Dubo; HT: Gr; LU: Fd).
Fish	<i>Channa punctatus</i> (LN: Garai; LU: Meat); <i>Clarias batrachus</i> (LN: Mungri; LU: Meat); <i>Heteroneuptes fossilis</i> (LN: Singhi; LU: Meat); <i>Macrognathus</i> sp. (LN: Baam; LU: Meat).
Herpetofauna	<i>Naja naja</i> (LN: Goman; EN: Spectacled Cobra); <i>Xenochrophis</i> sp. (LN: Dhodiya; EN: Marshsnake); <i>Varanus flavescens</i> (LN: Sungohoro; EN: Golden Monitor Lizard); <i>Ptyas mucosa</i> (LN: Dhaman; EN: Rat Snake); <i>Calotes versicolor</i> (LN: Bagaiche Cheparo; EN: Gerden lizard).



Birds	<i>Acridotheres tristis</i> (LN: Ruppi; EN: Common myna); <i>Passer domesticus</i> (LN: Bhangera; EN: House Sparrow); <i>Emberiza sp.</i> (LN: Bagedi; EN: Bunting); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow); <i>Streptopelia sp.</i> (LN: Dhukur; EN: Dove); <i>Dendrocygna sp.</i> (LN: Silsiley; EN: Lesser Whistling Duck); <i>Tachybaptus ruficollis</i> (LN: Pandubi, Dubulkichara; EN: Little Grebe); <i>Ardeasp.</i> (LN: Bakulla; EN: Heron).
Mammals	<i>Caprologus sp.</i> (LN: Kharayo; EN: Rabbit); <i>Canis aureus</i> (LN: Syal; EN: Jackal); <i>Felis chaus</i> (LN: Banbiralo); <i>Herpestessp.</i> (LN: Nyauri musa; EN: Mongoose); <i>Vulpessp.</i> (LN: Fyauro EN: Fox).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Rani</i> ; 1 Km from lake; Main Trail: Biratnagar–Jogbani road; 1 Km from trail to lake.
Land use	Agricultural land (35%); Shrubland (10%); Grassland (10%); Settlement (40%); Lake (5%).
Demography	Population: 8147; Male: 4200; Female: 3947; HHs: 1438; Ethnicity: Brahmin/Chhetri (20%); Janajati (55%); Dalit (15%); Others (10%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>400 no.
Traditional production system	Traditional paddy cultivation in 500 ha.
Traditional water use practices	Farmers managed canal.
Cultural record	Temple.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Fish supply.
Cultural services	Historic pond believed to be the pond of king Birat. Temple and pond worshipped by local people during festivals.

### E. Restoration/Management

Structural management	Afforestation; Iron fencing around the lake.
None-structural management	Informal rules.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

Only local visitors during festivals; Transportation, communication and hotels available near to Biratnagar municipality; No tourism potential.

### G. Lake condition

Degrading.

## 10. Rani Mantha Pokhari

Code: P1-D6-010

Topo sheet no: 2687 10 A

Date of inventory: 2069. 8.  
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### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°24'16.38" N; <u>Lon</u> : 87°16'21.58" E; <u>Alt</u> : 68 masl.
Geographical position	Terai.
Administrative feature	EDR; Morang district; Biratnagar Municipality; Ward No. 22 (Currently: Biratnagar Sub-Metropolitan City, Ward No. 17); <u>Rani Core Area</u> : Embankment and foot trail in all directions.
Boundary	<u>Basin Area</u> : Dense settlement of Rani in west; Cultivation land in east and north; Rani-Buddhanagar road in south.
Management responsibility	<i>Shree Baba Baneshwornath Temple Samaj</i> .
Wetlands type	Fresh water/natural; Lacustrine; Seasonal.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 32 <sup>o</sup> .9 (May). <u>Avg. Min Temp</u> : 9.5 <sup>o</sup> C (Jan) (DDC Profile 2005). <u>Rainfall</u> : 1919.6 mm/yr (CBS 2012).
Area	<u>Core Area</u> : 0.3 ha; Avg. Length: 50 m; Avg. Width: 50 m; Avg. Depth: 1 m; Max-MinSurface Water Level: 3-1 m; <u>Basin Area</u> : 5 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 28 <sup>o</sup> C; pH: 7.5; Transparency: 0.3 m.
Soil feature	Dark grey color; Sandy clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : None.
Major plants in basin	<i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Rel tree); <i>Ficus bengalensis</i> (LN: Bar; HT: Tr; LU: Rel tree); <i>Asoca indica</i> (LN: Ashok; HT: Tr; LU: None); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fr).
Fish	<i>Channa punctatus</i> (LN: Garai; LU: Meat); <i>Clarias batrachus</i> (LN: Mungri; LU: Meat); <i>Heteroneuptes fossilis</i> (LN: Singhi; LU: Meat); <i>Punctius sophore</i> (LN: Pothi; LU: Meat); <i>Macrogathussp.</i> (LN: Baam; LU: Meat).
Herpetofauna	<i>Naja naja</i> (LN: Goman; EN: Spectacled Cobra); <i>Xenochrophissp.</i> (LN: Dhodiya; EN: Marshsnake); <i>Varanus flavescens</i> (LN: Sungohoro; EN: Common monitor lizard); <i>Ptyas mucosa</i> (LN: Dhaman; EN: Rat Snake); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common lizard).

Birds	<i>Acridotheres tristis</i> (LN: Ruppi; EN: Common Myna); <i>Passer domesticus</i> (LN: Bhangera; EN: Sparrow); <i>Emberiza sp.</i> (LN: Bagedi; EN: Bunting); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow); <i>Streptopelia sp.</i> (LN: Dhukur; EN: Dove); <i>Dendrocygna sp.</i> (LN: Silsiley; EN: Lesser Whistling Duck); <i>Tachybaptus ruficollis</i> (LN: Pandubi, Dubulkichara; EN: Little Grebe); <i>Ardeasp.</i> (LN: Bakulla; EN: Heron).
Mammals	<i>Caprologus sp.</i> (LN: Kharayo; EN: Rabbit); <i>Canis aureus</i> (LN: Syal; EN: Jackel); <i>Felis chaus</i> (LN: Banbiralo; EN: Jungle Cat); <i>Herpestessp.</i> (LN: Nyauri musa; EN: Mongoose); <i>Vulpessp.</i> (LN: Fyauro; EN: Fox).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Rani</i> ; 500 m from lake; Main Trail: Biratnagar–Jogbani road; 500 m from trail to lake.
Land use	Forestland (50%); Shrubland (20%); Grassland (15%); Settlement (10%); Lake (5%).
Demography	Population: 8147; Male: 4200; Female: 3947; HHS: 1438; Ethnicity: Brahmin/Chhetri (20%); Janajati (55%); Dalit (15%); Others (10%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500 no.
Traditional production system	Traditional paddy cultivation in 500 ha.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Fish supply.
Cultural services	Recreational.

### E. Restoration/Management

Structural management	Built up of dams; Afforestation.
None-structural management	Volunteer restriction for any harmful activities.
Conservation plan	Built up within the plan of CF.
Monitoring plan	None.

### F. Tourism information

Only local visitors; Transportation, communication and health facilities available; Hotels in Biratnagar Municipality; No tourism potential.

### G. Lake condition

Degrading.

## 11. Sunbarsi Pokhari

Code: P1-D6-011

Topo sheet no: 2687 07 C

Date of inventory: 2069. 8. 5



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°31'00.93" N; <u>Lon</u> : 87°35'01.44" E; <u>Alt</u> : 85 masl.
Geographical position	Terai.
Administrative feature	EDR; Morang district; Govindapur VDC; Ward No. 4 (Currently: Ratuwamaai Municipality, Ward No. 5); <i>Bhaudaha</i> , Sunbarsi
Boundary	<u>Core Area</u> : Grasland and vegetation cover in all directions <u>Basin Area</u> : Babhanado-Dugar Kamat-Khairbari road in west; <i>Bakraha Khola</i> in east; Dugar Kamat- Bhaudaha-Kaseni road in south; Bhaudaha Village in north.
Management responsibility	The Sunbarsi Conservation Committee.
Wetlands type	Fresh water/natural; Palustrine; Forest.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 32 <sup>o</sup> .9 (May). <u>Avg. Min Temp</u> : 9.5 <sup>o</sup> C (Jan) (DDC Profile 2005). <u>Rainfall</u> : 1919.6 mm/yr (CBS 2012).
Area	<u>Core Area</u> : 1.5 ha; Avg. Length: 125 m Avg. Width: 125 m Avg. Depth: 3 m; Max-Min Surface Water Level: 5-3 m; <u>Basin Area</u> : 25 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: Small drainage.
Water quality	<u>Physicochemical parameter</u> : Temp.: 27 <sup>o</sup> C; pH: 7.5; Transparency: 0.4 m.
Soil feature	Dark grey color; Sandy silt loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Ff); <i>Nelumbo nucifera</i> (LN: Kamal; HT: Ff; LU: Orn); <i>Hydrillaverticillata</i> (LN: Namle Jhar; HT: Sm; LU: fish food).
Major plants in basin	<i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm); <i>Albizia lebbeck</i> (LN: Siris; HT: Tr; LU: Tm, Ful); <i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Tm, Ful); <i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: Tm, Ful); <i>Ziziphus mauritiana</i> (LN: Bayar; HT: Sh; LU: Fr); <i>Trewia nudiflora</i> (LN: Pithari, Vellar; HT: Tr; LU: Fd).
Fish	<i>Anabas testudineus</i> (LN: Kabai; LU: Meat); <i>Wallago attu</i> (LN: Buhari; LU: Meat); <i>Clarias batrachus</i> (LN: Mungri; LU: Meat); <i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat).

Herpetofauna	<i>Hemibungarus</i> sp. (LN: Naag; EN: Coral Snake); <i>Rana</i> sp. (LN: Bhyaguto; EN: Frog); <i>Calotes versicolor</i> (LN: Chheparo; EN: Common Garden Lizard).
Birds	<i>Acridotheres tristis</i> (LN: Ruppi; EN: Common Myna); <i>Passer domesticus</i> (LN: Bhangera; EN: Sparrow); <i>Emberiza</i> sp. (LN: Bagedi; EN: Bunting); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow); <i>Streptopelia</i> sp. (LN: Dhukur; EN: Dove); <i>Dendrocygna</i> sp. (LN: Silsiley; EN: Lesser Whistling Duck); <i>Tachybaptus ruficollis</i> (LN: Pandubi, Dubulkichara; EN: Little Grebe); <i>Ardeasp.</i> (LN: Bakulla; EN: Heron).
Mammals	<i>Caprologus</i> sp. (LN: Kharayo; EN: Rabbit); <i>Canis aureus</i> (LN: Syal; EN: Jackel); <i>Felis chaus</i> (LN: Banbiralo; EN: Jungle Cat); <i>Herpestessp.</i> (LN: Nyauri musa; EN: Mongoose); <i>Vulpessp.</i> (LN: Fyauro; EN: Fox).
Invasive alien species	<i>Eupatorium</i> sp. (LN: Banmara; EN: Thoroughwort); <i>Eichhornia</i> sp. (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Bhaudaha</i> ; 200 m from lake; Main Trail: Dianiya–Amardaha road.
Land use	Shrubland (4%); Agriculture (85%); Settlement (10%); Lake (1%).
Demography	Population: 600; Male: 275; Female: 325; HHs: 100; Ethnicity: Brahmin/Chhetri (20%); Janajati (12%); Dalit (15%); Others (53%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>300 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmer managed canal.
Cultural record	Than of Sunbarshi Maharaj.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigation in 8 ha; Water for livestock.
Cultural services	<i>Sunbarshi mela</i> ; Local <i>Haat</i> each week); <i>Siruwa mela</i> on <i>Baisakh 1<sup>st</sup></i> (a great function of the Rajbansi and Tharu communities).

### E. Restoration/Management

Structural management	Afforestation.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

Only local visitors during fair; No hotels but access to road and communication; No tourism potential.

### G. Lake condition

Degrading.

## Annex-10: Inventory of Lakes in Panchthar district

### 1. Dabala Pokhari

Code: P1-D8-001

Topo sheet no: 2787 16 B

Date of inventory: June 11, 2012



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°13'20.60"N; <u>Lon</u> : 87°57'23.30" E; <u>Alt</u> : 2728 masl.
Geographical position	Midlands
Administrative feature	EDR; Panchthar district; Meming & Chyanthapu VDC; Ward No. 3 (Currently: Yangbarak Rural Municipality, Ward No 1; and Falelung Rural Municipality, Ward No. 3); <i>Dabala Bhanjyang</i>
Boundary	<u>Core Area</u> : Grassland in all directions. <u>Basin Area</u> : Forest in all directions.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Palustrine; Emergent, Forest.

#### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 22° C (Jul/Aug). <u>Avg. Min Temp</u> : 15° C (Dec). <u>Rainfall</u> : 2,400 mm/yr (DDC Profile).
Area	<u>Core Area</u> : 0.2 ha; Avg. Length: 50 m; Avg. Width: 35 m; Avg. Depth: 3 m; Max-Min Surface Water Level: 4–1 m; <u>Basin Area</u> : 6.8 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 18° C; pH: 6.5; Transparency: 0.4 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Nymphaea sp.</i> (LN: Kamal; HT: Ff; LU: Orn).
Major plants in basin	<i>Senecio sp.</i> (LN: Tori Phule; HT: Sh; LU: Fd); <i>Rhododendron arboreum</i> (LN: Laligurans; HT: Tr; LU: Ful, Fd, juice); <i>Lichen</i> (LN: Jhyau; HT: Hr); <i>Viburnum erubescens</i> (LN: Asaare; HT: Tr; LU: Fr); Fern (LN: Unio; HT: Hr; LU: Fd).
Fish	None.
Herpetofauna	<i>Nanorana sp.</i> (LN: Pahaharu; EN: Paa Frog).

Birds	<i>Lophura leucomelanos</i> (LN: Kalij; EN: KalizPheasant); <i>Arborophila torqueola</i> (LN: Piura; EN: Common Hill Partridge); <i>Aquila sp.</i> (LN: Chil; EN: Black Kite); <i>Treron sphenura</i> (LN: Haleso; EN: Green Pigeon); <i>Bubo sp.</i> (LN: Huchil; EN: Eagle Owl).
Mammals	<i>Ailurus fulgens</i> (LN: Pundekudo; EN: Redpanda); <i>Ursus thibetanus</i> (LN; Kalobhalu; EN: Black bear); <i>Moschus sp.</i> (LN: Kasturi; EN: Musk Deer); <i>Sus scrofa</i> (LN: Badel; EN: Wildpig); <i>Cuon alpinus</i> (LN: Bankukur; EN: Wilddog); <i>Canis aureus</i> (LN: Syal; EN: Jackal).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	No settlement; Main Trail: Lam Pokhari-Dablabhanjyang trail; about 2.5 Km from lake to Lampokhari village.
Land use	Forestland (65%); Shrubland (15%); Wetlands (5%); Others (10%).
Demography	No settlement at basin.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Water for wild animals.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degrading

## 2. Gunte Pokhari

Code: P1-D8-002

Topo sheet no: 2787 – 16 B

Date of inventory: June 11, 2012



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat</u> : 27°13'09.46"N; <u>Lon</u> .: 87°58'08.88" E; <u>Alt</u> : 2866 masl.
Geographical position	Midlands.
Administrative feature	EDR; Panchthar district; Chyanthapu VDC; Ward No. 3 (Currently: Yangbarak Rural Municipality, Ward No. 1); Sukedhap
Boundary	<u>Core Area</u> : Grassland in all directions. <u>Basin Area</u> : Forest cover in all directions along with Sukhadhap-Dabalebhanjyang trail in north.
Management responsibility	State.
Wetlands type	Fresh water/natural; Palustrine; Emergent.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 22° C (Jul/Aug). <u>Avg. Min Temp</u> : 15° C (Dec). <u>Rainfall</u> : 2,400 mm/yr (DDC Profile).
Area	<u>Core Area</u> : 0.1 ha; Avg. Length: 50 m; Avg. Width: 30 m; Avg. Depth: 2.5 m; Max–Min Surface Water Level: 3–1.5 m; <u>Basin Area</u> : 4.3 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 18° C; pH: 6.5; Transparency: 0.5 m.
Soil feature	Red and grey color; Sandy loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : None
Major plants in basin	<i>Lindera pulcherrima</i> (LN: Phusure; HT: Tr; LU: Ful, Fd); <i>Rhododendron arboreum</i> (Rhododendron; HT: Tr; LU: Ful, Fd, juice); <i>Berberis sp.</i> (LN: Chhutro; HT: Sh, LU: Med); <i>Viburnum erubescens</i> (LN: Asaare; HT: Tr; LU: Ful); <i>Poa sp.</i> (LN: Jhar ghas; HT: Hr, LU: Fd); Fern (LN: Unio; HT: Hr; LU: Fd); <i>Rumex nepalensis</i> (LN: Hal-hale; HT: Hr; LU: Med).
Fish	None.
Herpetofauna	<i>Nanorana sp.</i> (LN: Pahaharu; EN: Paa Frog).
Birds	<i>Lophura leucomelanos</i> (LN: Kaliz; EN: Kaliz Pheasant); <i>Arborophila torqueola</i> (LN: Piura; EN: Partridge); <i>Gyps sp.</i> (LN: Giddha; EN: Vulture); <i>Zootherasp.</i> (LN: Chachar; EN: Thrush); <i>Dendrocopossp.</i> (LN: Lahache; EN: Woodpeaker).



Mammals	<i>Ailurus fulgens</i> (LN: Pundekudo; EN: Redpanda); <i>Ursus thibetanus</i> (LN; Kalobhalu; EN: Black Bear); <i>Moschus</i> (LN: Kasturi; Musk Deer); <i>Sus scrofa</i> (LN: Badel; EN: Wildpig); <i>Cuon alpinus</i> (LN: Bankukur; EN: Wild dog); <i>Canis aureus</i> (LN: Syal; EN: Jackal).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	No settlement; Main Trail: Lam Pokhari-Gunte Pokhari-Dablabhanjyang; About 3.5 Km from Lam Pokhari village.
Land use	Forestland (65%); Shrubland (10%); Grassland (10%); Wetlands (5%); Others (10%).
Demography	No settlement at basin.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Water source for wild animals.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degrading.

### 3. Harkote Pokhari

Code: P1-D8-003

Topo sheet no: 2787 16 B

Date of inventory: June 11, 2012



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°13' 06.8"N; <u>Lon</u> : 87°59'30.6" E; <u>Alt</u> : 2779 masl.
Geographical position	Midlands.
Administrative feature	EDR; Panchthar district; Meming VDC; Ward No. 3 (Currently: Harkate Rural Municipality, Ward No. 3); Harkate
Boundary	<u>Core Area</u> : Grassland in all directions. <u>Basin Area</u> : Forest cover in all directions.
Management responsibility	State.
Wetlands type	Fresh water/natural; Palustrine; Emergent, Forest.

#### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 22° C (Jul/Aug). <u>Avg. Min Temp</u> : 15° C (Dec). <u>Rainfall</u> : 2,400 mm/yr (DDC Profile).
Area	<u>Core Area</u> : 0.03 ha; Avg. Length: 25 m; Avg. Width: 20 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 3-1 m; <u>Basin Area</u> : 4.8 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 18° C; pH: 6.5; Transparency: 0.5 m.
Soil feature	Red and grey color; Sandy loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Rorippa nasturtium-aquaticum</i> (LN: Pani Jhar; HT: Em).
Major plants in basin	<i>Osmanthus suaveans</i> (LN: Sirlinge; HT: Tr; LU: Ful, Fd); <i>Rhododendron arboreum</i> (LN: Laligurans; HT: Tr; LU: Ful, Fd, juice); <i>Viburnum erubescens</i> (LN: Asare; HT: Tr; LU: Ful); Lichens (LN: Jhyau; HT: Hr); Fern (LN: Unio; HT: Hr; LU: Fd); <i>Rhododendron barbatum</i> (LN: Chimal; HT: Tr; LU: Ful, Fd); <i>Acer sp.</i> (LN: Kapase; HT: Tr; LU: Fd); <i>Prunus cornuta</i> (LN: Aarupate; HT: Tr; LU: Ful, Fd).
Fish	None.
Herpetofauna	<i>Nanorana sp.</i> (LN: Pahaharu; EN: Paa Frog).
Birds	<i>Lophura leucomelanos</i> (LN: Kaliz; EN: Kaliz Pheasant); <i>Zootherasp.</i> (LN: Chachar; EN: Thrush); <i>Dendrocopos sp.</i> (LN:

Mammals	Lahache; EN: Woodpecker); <i>Urocissa flavirostris</i> (LN: Lampuchhre; EN: Magpie); <i>Corvus</i> sp. (LN: Kaag; EN: Crow); <i>Lophophorus impejanus</i> (LN: Danphe; EN: Impeyan Pheasant). <i>Ailurus fulgens</i> (LN: Pundekudo; EN: Redpanda); <i>Ursus thibetanus</i> (LN: Kalobhalu; EN: Black bear); <i>Moschus</i> sp. (LN: Kasturi; EN: Musk Deer); <i>Sus scrofa</i> (LN: Badel; EN: Wildpig); <i>Cuan alpinus</i> (LN: Bankukur; EN: Wilddog); <i>Canisaureus</i> (LN: Syal; EN: Jackal).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	No settlement; Main Trail: Lam Pokhari-Harkote Pokhari-Dablabhanjyang; About 0.5 Km from Lam Pokhakhari.
Land use	Forestland (65%); Shrubland (25%); Wetlands (5%); Others (5%).
Demography	No settlement at basin.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None
Traditional production system	None.
Traditional water use practices	None
Cultural record	None.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Water for domestic & wild animals.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degrading.

#### 4. Hile Pokhari

Code: P1-D8-004

Toposheet no: 2787 16 B

Date of inventory: June 11, 2012



##### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°13'10.4"N; <u>Lon</u> : 87°57'00.95" E; <u>Alt</u> : 2,840 masl.
Geographical position	Midlands.
Administrative feature	EDR; Panchthar district; Chyanthapu VDC; Ward No. 3 (Currently: Yangbarak Rural Municipality, Ward No. 1); Gunte site, Sukedhyas
Boundary	<u>Core Area</u> : Forest in all directions. <u>Basin Area</u> : Forest in all directions.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Palustrine; Emergent.

##### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 22° C (Jul/Aug). <u>Avg. Min.</u> : 15° C (Dec). <u>Rainfall</u> : 2,400 mm/yr (DDC Profile).
Area	<u>Core Area</u> : 0.1 ha; Avg. Length: 50 m; Avg. Width: 30 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 4-0.5 m; <u>Basin Area</u> : 4.6 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Small stream; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 18° C; pH: 6.5; Transparency: 0.3 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Nymphaea sp.</i> (LN: Kamal; HT: Ff, LU: Orn), <i>Eichhornia crassipes</i> (LN: Jalkumbhi; HT: Ff, LU: Fd forpig); <i>Nelumbo sp.</i> (LN: Kamal; HT: Ff, LU: Orn).
Major plants in basin	<i>Osmanthus suaveans</i> (LN: Sirlinge; HT: Tr; LU: Ful, Fd); <i>Rhododendron barbatum</i> (LN: Chimal; HT: Tr; LU: Fd, Ful); <i>Rhododendron arboreum</i> (LN: Laliguras; HT: Tr; LU: Ful, Fd, juice); <i>Euodia fraxinifolia</i> (HT: Tr); <i>Prunus cornuta</i> (LN: Aaru pate; HT: Tr; LU: Ful); <i>Symplocos paniculata</i> (LN: Kholme; HT: Tr; LU: Ful); <i>Dendrobium sp.</i> (LN: Sunakhari; HT: Epiphyte, LU: Decoration); Fern (LN: Unio; HT: Hr; LU: Fd); <i>Viburnum erubescens</i> (LN: Asare; HT: Tr; LU: Ful); <i>Poa sp.</i> (LN: Jhar Ghas; HT: Hr; LU: Fd).
Fish	None.

Herpetofauna	<i>Nanorana sp.</i> (LN: Pahaharu; EN: Paa Frog).
Birds	<i>Lophura leucomelanos</i> (LN: Kalij; EN: Kaliz Pheasant); <i>Tragopan satyra</i> (LN: Munal; EN: Crimson Pheasant); <i>Urocissa sp.</i> (LN: Lampuchhre; Magpie); <i>Corvus sp.</i> (LN: Kaag; EN: Crow); <i>Lophophorus impejanus</i> (LN: Danphe; EN: Impeyan Pheasant); <i>Aquila sp.</i> (LN: Chil; EN: Black Kite)
Mammals	<i>Ailurus fulgens</i> (LN: Pundekudo; EN: Redpanda); <i>Ursus thibetanus</i> (LN: Kalobhalu; EN: Himalayan Bear); <i>Moschus sp.</i> (LN: Kasturi; EN: Musk Deer); <i>Sus scrofa</i> (LN: Badel; EN: Wildpig); <i>Cuon alpinus</i> (LN: Bankukur; EN: Wilddog); <i>Canis sp.</i> (LN: Syal; EN: Jackal).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	No settlement; Main Trail: Rural trail.
Land use	Forestland (80%); Shrubland (5%); Grassland (5%); Wetlands (5%); Others (5%).
Demography	No settlement at basin.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock and wild animals.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	Available.
Monitoring plan	None.

<b>F. Tourism information</b>	No visitors; No tourism potential.
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<b>G. Lake condition</b>	Good.
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## 5. Jor Pokhari-I (Vale Pokhari)

Code: P1-D8-005

Topo sheet no: 2787 16 A

Date of inventory: June 11, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°12'51.20"N; <u>Lon</u> : 87°49'10.20" E; <u>Alt</u> : 1,986 masl.
Geographical position	Midlands.
Administrative feature	EDR; Panchthar district; Varapa VDC; Ward No. 2 (Currently: Hilihang Rural Municipality, Ward No. 6); Jor Pokhari
Boundary	<u>Core Area</u> : Mechi Highway in west; Forest in east; south and north. <u>Basin Area</u> : Gausara-Kagate trail in west; Lasune-Chaturebazar trail in east; kerabari-Parewagadi-Jorpokhari trail in south; Lali-Simle trail north.
Management responsibility	<i>Jor Pokhari Shrot samrakshan Committee.</i>
Wetlands type	Fresh water/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 22° C (Jul/Aug). <u>Avg. Min Temp</u> : 15° C (Dec). <u>Rainfall</u> : 2,400 mm/yr (DDC Profile).
Area	<u>Core Area</u> : 0.02 ha; Avg. Length: 100 m; Avg. Width: 20 m; Avg. Depth: 1.5; Max-Min Surface Water Level: 3-0.5 m; <u>Basin Area</u> : 2.8 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 18° C; pH: 6.5; Transparency: 0.3 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	Exposed to dry condition.
Major aquatic plants	<u>Core Area</u> : <i>Nymphaea sp.</i> (LN: Kamal; HT: Ff; LU: Orn); <i>Comrelina sp.</i> (LN: Kane Jhar; HT: Em; LU: Fd).
Major plants in basin	Fern ( HT: Hr; LU: Fertilizer); <i>Alnus nepalensis</i> (LN: Uttis; HT: Tr; LU: Ful, Tm); <i>Cryptomeria japonica</i> (LN: Dhupi; HT: Sh; LU: Tm, Fertilizer); <i>Pinus roxburghii</i> (LN: Sallo; HT: Tr, LU: Ful, Tm); <i>Elaeocarpus lanceifolius</i> (LN: Rudrakshya; HT: Tr; LU: Religious tree); <i>Rubus ellipticus</i> (LN: Aaishelu; HT: Sh; LU: Fr); <i>Castanopsis hystrix</i> (LN: Patle; HT: Tr; LU: Ful); <i>Schima wallichii</i> (LN: Lek Chilaune; HT: Tr; LU: Ful, Tm); <i>Eurya acuminata</i> (LN: Jhinge; HT: Tr; LU: Ful); <i>Symplocos ramosissima</i> (LN: Kharane; HT: Tr; LU: Ful).

Fish	<i>Ctenopharyngodon idella</i> (Grass Carp; LU; Meat); <i>Carassius carassius</i> (Red fish; LU; Meat).
Herpetofauna	<i>Nanorana sp.</i> (LN: Pahaharu; EN: Paa Frog); <i>Calotes sp.</i> (LN: Chheparo; EN: Lizard).
Birds	<i>Lophura leucomelanos</i> (LN: Kalij; EN: Kaliz Pheasant); <i>Cuculus sp.</i> (LN: Koilee; EN: Cuckoo); <i>Apus sp.</i> (LN: Gauthali; EN: Swift); <i>Dendrocopos sp.</i> (LN: Lahache; EN: Wood Pecker); <i>Bubo sp.</i> (LN: Huchil; EN: Eagle Owl); <i>Uroissa sp.</i> (LN: Lampuchhre; EN: Magpie)
Mammals	<i>Herpestessp.</i> (LN: Nyauri; EN: Mongoose); <i>Hystrix sp.</i> (LN: Dumsi; EN: Porcupine); <i>Muntiacus muntjak</i> (LN: Mirga; EN: Barking Deer); <i>Manis sp.</i> (LN: Salak; EN: Pangoline); <i>Petaurista sp.</i> (LN: Rajpankhi; EN: Flying Squirrel).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Jorpokhari</i> ; Varapa-2; Main Trail: Mechi Highway; Very close to lake.
Land use	Forestland (70%); Agriculture (10%); Settlement (10%); Wetlands (5%); Others (5%).
Demography	Population: 750; Male:40%; Female:60%; Hhs:150; Ethnicity: <i>Brahmin/Chettri</i> (30%); <i>Janajati</i> (45%); <i>Dalit</i> (25%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>50 no.
Traditional production system	Traditional terrace farming.
Traditional water use practices	None.
Cultural record	Temple (2).
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Water source for livestock; Fish supply; Timber supply; Fodder & forage.
Cultural services	Religious; Recreational.

### E. Restoration/Management

Structural management	Afforestation.
Non-structural management	Informal restriction for any pollution.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

Occasional visitors; Local hotels, bus and police stations at basin; Good access to transportation; Tourism potential low.

### G. Lake condition

Good.

## 6. Jor Pokhari-II (Pothi Pokhari)

Code: P1-D8-006

Topo sheet no: 2787 16A

Date of inventory: June 11, 2012



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat</u> : 27°12'41.50"N; <u>Lon</u> : 87°49'02.70" E; <u>Alt</u> : 1,992 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	EDR; Panchthar district; Bharapa VDC; Ward No. 2 (Hilihang Rural Municipality, Ward No. 6); <i>Jor Pokhari</i>
Boundary	<u>Core Area</u> : Mechi highway in east; Forest in west; south and north. <u>Basin Area</u> : Gausara-Kagate trail in west; Lasune-Chaturebazar trail in east; kerabari-Parewagadi-Jorpokhari trail in south; Lali-Simle trail north.
Management responsibility	<i>Jor Pokhari Shrot Samrakshan Committee</i> .
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 22° C (Jul/Aug). <u>Avg. Min Temp</u> : 15° C (Dec). <u>Rainfall</u> : 2,400 mm/yr (DDC Profile).
Area	<u>Core Area</u> : 0.1 ha; Avg. Length: 150 m; Avg. Width: 20 m; Avg. Depth: 1m; Max-Min Surface Water Level: 3-0.5 m; <u>Basin Area</u> : 2.8 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 18° C; pH: 6.5; Transparency: 0.3 m.
Soil feature	Dark and Grey color; Clay loam texture.
Shocks/vulnerability	None
Major aquatic plants	<u>Core Area</u> : <i>Nymphaea sp.</i> (LN: Kamal; HT: Ff; LU: Orn); <i>Polygonum hydropiper</i> (LN: Pire Jhar; HT: Em).
Major plants in basin	<i>Alnus nepalensis</i> (LN: Uttis; HT: Tr; LU: Ful, Tm); <i>Cryptomeria japonica</i> (LN: Dhupi; HT: Sh; LU: Tm, Fertilizer); <i>Pinus roxburghii</i> (LN: Sallo; HT: Tr, LU: Ful, Tm); <i>Elaeocarpus lanceifolius</i> ((LN: Rudrakshya; HT: Tr; LU: Rel); <i>Rubus ellipticus</i> (LN: Aishelu; HT: Sh; LU: Fr); <i>Castanopsis hystrix</i> (LN: Patle; HT: Tr; LU: Ful); <i>Schima wallichii</i> (LN: Lek Chilaune; HT: Tr; LU: Ful, Tm); <i>Eurya acuminata</i> (LN: Jhinge; HT: Tr; LU: Ful); <i>Symplocos ramosissima</i> (LN: Kharane; HT: Tr; LU: Ful) Fern (HT: Hr; LU: Fertilizer).
Fish	<i>Ctenopharyngodon idella</i> (LN: Grass Carp; LU; Rel); <i>Carassius carassius</i> (EN: Red fish; LU; Rel.).



Herpetofauna	<i>Nanorana sp.</i> (LN: Pahaharu; EN: Paa Frog); <i>Calotes sp.</i> (LN: Chheparo; EN: Lizard).
Birds	<i>Lophura leucomelanos</i> (LN: Kalij; EN: Kaliz Pheasant); <i>Cuculus sp.</i> (LN: Koilee; EN: Cuckoo); <i>Apus sp.</i> (LN: Gauthali; EN: Swift); <i>Dendrocopos sp.</i> (LN: Lahache; EN: Woodpecker); <i>Bubo sp.</i> (LN: Huchil; EN: Eagle owl); <i>Urocissasp.</i> (LN: Lampuchhre; EN: Magpie); <i>Hirundo sp.</i> (LN: Gauthalil; EN: Swallow).
Mammals	<i>Herpestessp.</i> (LN: Nyauri; EN: Mongoose); <i>Hystrix sp.</i> (LN: Dumsi; EN: Porcupine); <i>Muntiacus muntjak</i> (LN: Mirga; EN: Barking Deer); <i>Manis sp.</i> (LN: Salak; EN: Pangoline); <i>Petaurista sp.</i> (LN: Rajpankhi; EN: Flying squirrel).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Jorpokhari</i> , Varapa-2; Main Trail: Mechi Highway; Very close to lake.
Land use	Forestland (70%); Shrubland (15%); Settlement (13%); Wetlands (2%).
Demography	Population: 750; Male:40%; Female:60%; HHs:150; Ethnicity: <i>Brahmin/Chettri</i> (30%); <i>Janajati</i> (45%); <i>Dalit</i> (25%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None.
Traditional production system	Terrace farming at south of lake.
Traditional water use practices	None.
Cultural record	Temple.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Water source for livestock; Timber; Fodder/forage; Fuelwood.
Cultural services	Religious; Recreational.

### E. Restoration/Management

Structural management	Dam; Afforestation.
Non-structural management	Informal restriction for any pollution.
Conservation plan	Available.
Monitoring plan	None.

### F. Tourism information

Occasional visitors; Local hotels, bus and police stations at basin; Good access to transportation; Tourism potential low.

### G. Lake condition

Degrading.

## 7. Lam Pokhari

Code: P1-D8-007

Topo sheet no: 2787 16 B

Date of inventory: June 11, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°13'09.40"N; <u>Lon</u> : 87°59'45.60" E; <u>Alt</u> : 2,757 masl.
Geographical position	Midlands.
Administrative feature	EDR; Panchthar district; Meming & Chyanthapu VDC; Ward No. 3 (Currently: Yangbarak Rural Municipality Ward No. 1); <i>Lam pokhari&amp;Thade</i>
Boundary	<u>Core Area</u> : Grassland in east and west; Forest in north; Temple and grassland in south. <u>Basin Area</u> : Forest cover in all directions.
Management responsibility	Lam Pokhari & Narelung Community Forest.
Wetlands type	Fresh water/natural; Palustrine; Emergent, Forest

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 22° C (Jul/Aug). <u>Avg. Min</u> : 15° C (Dec). <u>Rainfall</u> : 2,400 mm/yr (DDC Profile).
Area	<u>Core Area</u> : 0.3 ha; Avg. Length: 115 m; Avg. Width: 20 m; Avg. Depth: 1 m; Max–Min Surface Water Level: 3–1 m; <u>Basin Area</u> : 14.6 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 17° C; pH: 7; Transparency: 0.5 m.
Soil feature	Red and grey color; Sandy loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Rorippa nasturtium-aquaticum</i> (LN: Pani Jhar; HT: Em); <i>Nymphaea sp.</i> (LN: Kamal; HT: Ff; LU: Decoration).
Major plants in basin	<i>Rumex nepalensis</i> (LN: Hal-Hale; HT: Hr; LU: Med); <i>Rhododendron arboreum</i> (LN: Laligurans; HT: Tr; LU: Ful, Fd, juice); <i>Poa sp.</i> (LN: Jhar Ghas; HT: Hr; LU: Fd); <i>Bante sp.</i> (LN: Bante; HT: Tr, LU: Ful, Fd); <i>Zanthoxylum acanthopodium</i> (LN: Timur; HT: Tr; LU: Fd); <i>Fern</i> (LN: Unio; HT: Hr; LU: Fd); <i>Rhododendron barbatum</i> (LN: Chimal; HT: Tr; LU: Ful, Fd).
Fish	None.
Herpetofauna	<i>Nanorana sp.</i> (LN: Pahaharu; EN: Paa Frog).
Birds	<i>Lophura leucomelanos</i> (LN: Kalij; EN: Kaliz Pheasant); <i>Arborophila torqueola</i> (LN: Piura; EN: Partridge); <i>Dendrocopossp.</i> (LN: Lahache; EN: Woodpecker); <i>Treron</i>

Mammals	<i>sphenura</i> (LN: Haleso; EN: Green pigeon); <i>Turdoides nipalensis</i> (LN: Kande Vyakuro; EN: Spiny Babbler). <i>Ailurus fulgens</i> (LN: Pundekudo; EN: Redpanda); <i>Ursus thibetanus</i> (LN: Kalobhalu; EN: Black Bear); <i>Moschus</i> (LN: Kasturi; EN: Musk Deer); <i>Sus scrofa</i> (LN: Badel; EN: Wildpig); <i>Cuan alpinus</i> (LN: Bankukur; EN: Wilddog); <i>Canis</i> (LN: Syal; EN: Jackal).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	No settlement; Main Trail: Dablabhanjyang-Lam Pokhari; 100 m from trail.
Land use	Forestland (70%); Shrubland (20%); Wetlands (5%); Others (5%).
Demography	No settlement at basin.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None
Traditional production system	None.
Traditional water use practices	None.
Cultural record	Temple.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Water for wild animals.
Cultural services	Religioussite.

### E. Restoration/Management

Structural management	None.
Non-structural management	Informal rules for detrimental activities.
Conservation plan	Available (Operational Plan of Narelung CF).
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Good.

## 8. Suke Pokhari-I

Code: P1-D8-008

Topo sheet no: 2787 – 16 B

Date of inventory: June 11, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°13' 04.80"N; <u>Lon</u> : 87°58'14.30" E; <u>Alt</u> : 2,863 masl.
Geographical position	Midlands
Administrative feature	EDR; Panchthar district; Memong & Chyanthapu VDC; Ward No. 3 (Yangbarak Rural Municipality, Ward No. 1; Falelung Rural Municipality, Ward No. 3); Sukepokhari, Sukedhap
Boundary	<u>Core Area</u> : Grassland in all directions. <u>Basin Area</u> : Forest cover in all directions.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Palustrine; Emergent, Forest

### B. Ecological Feature

Climatic feature	<u>Avg. Max</u> : <u>Temp</u> : 22° C (Jul/Aug). <u>Avg. Min</u> : 15° C (Dec). <u>Rainfall</u> : 2,400 mm/yr (DDC Profile).
Area	<u>Core Area</u> : 0.7 ha; Avg. Length: 80 m; Avg. Width: 50 m; Avg. Depth: 1 m; Max–Min Surface Water Level: 3–1 m; <u>Basin Area</u> : 5.3 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 17° C; pH: 7; Transparency: 0.5 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Nymphaeasp.</i> (LN: Kamal; HT: Ff, LU: Orn).
Major plants in basin	<i>Osmanthus suaveans</i> (LN: Sirlinge; HT: Tr; LU: Ful, Fd); <i>Rhododendron arboreum</i> (LN: Laligurans; HT: Tr; LU: Ful, Fd, juice); <i>Prunus cornuta</i> (LN: Aaru pate; HT: Tr; LU: Ful); <i>Quercus semecarpifolia</i> (LN: Khasru; HT: Tr; LU: Ful, Fd); <i>Symplocos paniculata</i> (LN: Kholme; HT: Tr; LU: Ful); Lichens (LN: Jhyau; HT: Hr, LU: None); Ferns (LN: Unio; HT: Hr; LU: Fd).
Fish	None.
Herpetofauna	<i>Nanorana sp.</i> (LN: Pahaharu; EN: Paa Frog).
Birds	<i>Lophura leucomelanos</i> (LN: Kaliz; EN: Kaliz Pheasant); <i>Tragopan satyra</i> (LN: Munal; EN: Crimson Pheasant); <i>Arborophila torqueola</i> (LN: Piura; EN: Partridge); <i>Treron sphenura</i> (LN: Haleso; EN: Green Pigeon); <i>Lophophorus impejanus</i> (LN: Danphe; EN:

## 9. Suke Pokhari-II

Code: P1-D8-009

Topo sheet no: 278716B

Date of inventory: June 11, 2012



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat</u> : 27°03' 38.80"N; <u>Lon</u> : 87° 50' 06.50" E; <u>Alt</u> : 2,709 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	EDR; Panchthar district; Pauwa Bhanjyang VDC; Suke Pokhari.
Boundary	<u>Core Area</u> : Forest area in all directions. <u>Basin Area</u> : Forest cover in all directions.
Management responsibility	<i>Suke Pokhari Shrot Samrakshan Committee.</i>
Wetlands type	Fresh water/natural; Palustrine; Emergent.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp.</u> : 22° C (Jul/Aug). <u>Avg. Min Temp.</u> : 15° C (Dec). <u>Rainfall</u> : 2,400 mm/yr (DDC Profile).
Area	<u>Core Area</u> : 0.2 ha; Avg. Length: 300 m; Avg. Width: 55 m; Avg. Depth: 1 m; Max-MinSurface Water Level: 2-1 m; <u>Basin Area</u> : 2.1 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 18° C; pH: 7.5; Transparency: 0.4m.
Soil feature	Light red and grey color; Sandy loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> <i>Nymphaea sp.</i> (LN: Kamal; HT: Ff; LU: Orn); <i>Polygonum hydropiper</i> (LN: Pire Jhar; HT: Em).
Major plants in basin	<i>Taxus sp.</i> (LN: Sallo; HT: Tr, LU: Ful, Tm); <i>Rhododendron arboreum</i> (LN: Laligurans; HT: Tr; LU: Ful, Tm, Juice); <i>Castanopsis sp.</i> (LN: Katus; HT: Tr; LU: Fr, Tm, Ful); <i>Sambucus adnata</i> (LN: Chari Bhang; HT: Sh; LU: Fertilizer).
Fish	<i>Ctenopharyngodon idellus</i> (Grass Carp; LU; Religious); <i>Carassius carassius</i> (Red fish; LU; Religious).
Herpetofauna	<i>Nanorana sp.</i> (LN: Pahaharu; EN: Paa Frog).
Birds	<i>Lophura leucometanos</i> (LN: Kalij; EN: Kaliz Pheasant); <i>Corvus sp.</i> (LN: Kaag; EN: Crow); <i>Apus sp.</i> (LN: Gauthali; EN: Swift); <i>Streptopelia sp.</i> (LN: Dhukur; EN: Dove).
Mammals	None.
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	<i>Pauwa Bhanjyang</i> ; Main Trail: Rural trail.
Land use	Forestland (70%); Shrubland (10%); Settlement (5%); Wetlands (3%); Others (7%).
Demography	Population: 540; Male: 265; Female: 275; HHs:180; Ethnicity: Brahmin/Chettri (40%); Janajati (45%); Dalit (5%); Others (10%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	> 150 no.
Traditional production system	Terrace farming.
Traditional water use practices	Spring; Stone spout.
Cultural record	None.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Water for livestock; Timber; Fodder/forage; Fuelwood.
Cultural services	Recreational.

### **E. Restoration/Management**

Structural management	Afforestation.
Non-structural management	Informal restriction for any pollution.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degrading.

## Annex-11: Inventory of lakes in Sankhuwasabha district

### 1. Gupha Pokhari

Code: P1-D9-001

Topo sheet no: 2787 11

Date of inventory: 3 June, 2012



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°17'04.65" N; <u>Lon</u> : 87°30'20.84" E; <u>Alt</u> : 2,900 masl.
Geographical position	Midlands.
Administrative feature	EDR; Sankhuwasabha district; Nundhaki VDC; Ward No. 9 (Currently: Chainpur Municipality, Ward No. 1); Guphapokhari
Boundary	<u>Core Area</u> : Foot trail in all directions. <u>Basin Area</u> : Barren land and hill ridge in west; Gupha Bazaar in east; Grassland and Sparse vegetation in south and north.
Management responsibility	Gupha Pokhari Conservation Committee.
Wetlands type	Fresh water/natural; Palustrine; Emergent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max</u> : <u>Temp</u> : 29.5° C (Jun). <u>Avg. Min</u> : 7.8° C (Dec); <u>Avg. Rainfall</u> : 834.4 mm/yr (Reference to the climate data of Dhankuta district, CBS 2012).
Area	<u>Core Area</u> : 0.4 ha; Avg. Length: 100 m; Avg. Width: 50m; Avg. Depth: 1 m; Max-Min Surface Water Level: 3–1.5 m; <u>Basin Area</u> : 41.2ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: Small spill out in east.
Water quality	<u>Physicochemical parameter</u> : Temp. 10° C; pH: Neutral; Transparency; 0.6 m.
Soil feature	Red color; Sandy loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : None.
Major plants in basin	<i>Rhododendron arboreum</i> (LN: Laligurans; HT: Tr, LU: Ful, Fd, Juice); <i>Cotoneaster microphyllus</i> (HT: Sh; LU: Fencing); <i>Taxus baccata</i> (LN: Dangre sallo; HT: Tr; LU: Tm ); <i>Rhododendron sp.</i> (LN: Chimal; HT: Tr; LU: Orn); <i>Drepanostachyum suberecta</i> (LN: Malingo; HT: Tr; LU: Handicraft, roofing); <i>Rhododendron grande</i> (LN: Potling HT: Tr; LU: Decoration); <i>Juniperus sp.</i> (LN: Dhupi; HT: Tr; LU: Incent stick); <i>Lyonia ovalifolia</i> (LN: Angeri HT: Tr; LU: Ful); <i>Rhododendron anthopogon</i> (LN: Sunapati; HT: Sh;

	LU: Incent stick); <i>Daphne bholua</i> (LN: Lokta HT: Tr; LU: Nepali paper); <i>Juniperous indica</i> (LN: Bhairung pati; HT: Sh; LU: Ful). <i>Clarius batrachus</i> (LN: Mungri; LU: Meat).
Fish	
Herpetofauna	<i>Ovophis monticola</i> (LN: Gurve; EN: Pit Viper).
Birds	<i>Lophura leucomelanos</i> (LN: Kalij; EN: Kaliz Pheasant); <i>Tragopan satyra</i> (LN: Munal; EN: Tragopan); <i>Urocissasp.</i> (LN: Lampuchhre; EN: Magpie); <i>Lophophorus impejanus</i> (LN: Danphe; Impeyan phesant); <i>Arborophila torqueola</i> (LN: Piura; EN: Partridge).
Mammals	<i>Ochotonasp. /Lepus sp.</i> (LN: Thute Musa; or Kharayo; EN: Pika or Hare); <i>Ursus thibetanus</i> (LN: Kalobhalu; EN: Asiatic Black Bear); <i>Hystrixsp.</i> (LN: Dumsi; EN: Porcupine); <i>Sus scrofa</i> (LN: Bandel; EN: Wildpig).
Invasive alien species	<i>Azeratum</i> spp. (LN: Gandhe Jhar; EN: Blueweed, Mexican Paintbrush); <i>Eupatorium sp.</i> (LN: Banmara; EN: Thoroughwort)
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Gupha Pokhari Bazaar; 50 m from lake; Main Trail: Chauki-Gufa Pokhare-Phedi-Jalhale trail; 50 m from lake.
Land use	Forestland (50%); Shrubland (15%); Grassland (20%); Settlement (10%); Wetlands (1%); Others (4%).
Demography	Population: 200; Male: 80; Female: 120; Hhs: 70; Ethnicity: Brahmin/Chettri (5%); Sherpa (90%); Others (5%); Major Religion: Buddhism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	Traditional livestock farming (Yak); Terrace farming (Lower elevation).
Traditional water use practices	Ritual pond.
Cultural record	Local fair during festive.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Domestic water supply; Timber; Fodder/forage; Fiber for paper pulp; Fuelwood; NTFPs; Handicraft materials ( <i>Malingo</i> & Bamboo).
Cultural services	Aesthetic/scenic; Religious.

### E. Restoration/Management

Structural management	Dams; Foot trail; Afforestation; IUCN Nepal's support under "Community Conservation of Rhododendron" initiative.
Non-structural management	Volunteer restriction for pollution and detrimental activities.
Conservation plan	Available (within operational plan of CF).
Monitoring plan	None.

### F. Tourism information

>5000 annual visitors including foreginers; Small hotels (5) and teashops; Local people (4) trained for hotel/lodge operation;



Menchim Danada as the sunrise vantage site; Milke Danda as rhododendron garden in the north of the Gufa Pokhari (30 minutes of walk); Basantapur-Gufa-Milke-Jaljale as Sangrilla trekking trail; Tourism potential moderate; Needs infrastructure & human resources development, and promotional activities.

**G. Lake condition**

Good.

## 2. Lam Pokhari

Code: P1-D9-002

Topo sheet no: 2787 14

Date of inventory: 3 June, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°15'47.30"N; <u>Lon</u> : 87°29'18.80" E; <u>Alt</u> : 2,957 masl.
Geographical position	Midlands.
Administrative feature	EDR; Sankhuwasabha district; Mawadin VDC; Ward No. 8; Lampokhari.
Boundary	<u>Core Area</u> : Forest in east; Gufa Pokhari trail in west; Forest in north; Grassland in south. <u>Basin Area</u> : Forest in all directions.
Management responsibility	Community Forest Users Group; Lampokhari Conservation Committee.
Wetlands type	Fresh water/natural; Palustrine; Emergent.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 29.5 <sup>0</sup> C (Jun). <u>Avg. Min Temp</u> : 7.8 <sup>0</sup> C (Dec); <u>Avg. Rainfall</u> : 834.4 mm/yr (Reference to the climate data of Dhankuta district, CBS 2012).
Area	<u>Core Area</u> : 0.1 ha; Avg. Length: 70 m; Avg. Width: 30m; Avg. Depth: 1.5 m; Max–Min Surface Water Level: 2.5–1 m; <u>Basin Area</u> : 9.7 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp: 16 <sup>0</sup> C; pH: 7; Transparency: 0.3 m.
Soil feature	Grey color; Sandy clay loam texture.
Shocks/vulnerability	Exposed to dryness.
Major aquatic plants	<u>Core Area</u> : <i>Rorripa sp.</i> (LN: Pani Jhar; HT: Em; LU: Fd); <i>Nymphaeasp.</i> (LN: Kamal; HT: Ff; LU: Orn).
Major plants in basin	<i>Rhododendron arboreum</i> (LN: Laliggarans; EN: Rhododendron; HT: Tr, LU: Ful, Fd, Juice); <i>Drepanostachyum suberecta</i> (LN: Malingo; HT: Tr; LU: Handicraft); <i>Symplocos ramosissima</i> (LN: Kharane; HT: Tr; LU: Ful); Fern (LN: Uniu HT: Hr; LU: Mat for pig); <i>Daphne bholua</i> (LN: Lokta HT: Tr; LU: Nepali paper); <i>Swertia chiraito</i> (LN: Chiraito; HT: Hr LU: Med); <i>Alnus nepalensis</i> (LN: Uttis; HT: Tr LU: Ful, Tm); <i>Bambusa sp.</i> (LN: Bans; HT: Sh LU: Fd, Handicraft).
Fish	None.

Herpetofauna	<i>Nanorana sp.</i> (LN: Pahaharu; EN: Paa Frog), <i>Ovophis monticola</i> (LN: Gurbe Snake; EN: Pit viper)
Birds	<i>Corvus</i> sp. (LN: Kaag; EN: Crow); <i>Streptopelia sp.</i> (LN: Dhukur; EN: Dove); <i>Lophura leucometanos</i> (LN: Kalij; EN: Kaliz Pheasant); <i>Catreus wallichii</i> (LN: Chir; EN: Cheer Pheasant); <i>Urocissasp.</i> (LN: Lampuchhre; EN: Magpie).
Mammals	<i>Moschus sp.</i> (LN: Kasturi; EN: MuskDeer); <i>Ochotona sp./Lepus sp.</i> (LN: Thute Musa or Kharayo; EN: Pika; Hare); <i>Naemorhedus goral</i> (LN: Ghoral; EN: Himalayan Goral); <i>Panthera pardus</i> (LN: Chituwa; EN: Common Leopard).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	No settlement nearby lake; Main Trail: Basantapur-Gufa Pokhari trail; 10 m from trail to lake.
Land use	Forestland (60%); Shrubland (15%); Grassland (30%); Wetlands (5%).
Demography	No settlement at basin (Used to have tea shops and a few houses some years back; Now abandoned).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	Temple.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock (altitude visitors; Seasonal) and wild animals.
Cultural services	Occasional religious visitors.

### E. Restoration/Management

Structural management	Masonry wall; IUCN Nepal's support (2004/2005) under "Community Conservation of Rhododendron in Tinjure-Milke-Jaljale" initiative.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Good.

## Annex-12: Inventory of lakes in Solukhumbu district

### 1. Phurke Pokhari

Code: P1-D10-001

Topo sheet no: 2786-12

Date of inventory: June 6, 2013



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°20'43.30" N; <u>Lon</u> : 86°39'21.70" E; <u>Alt</u> : 1713 masl.
Geographical position	Midlands/Flat.
Administrative feature	EDR; Solukhumbu district; Necha VDC; Ward No: 1; Phurke.
Boundary	<u>Core Area</u> : Agricultural land in west and north; Ganesh temple in east; Grassland in south. <u>Basin Area</u> : Bihibare-Gairi trail in west; Ratmate-Koldada trail in east; Phurke CF in south; Ratmate-Phurke-Bhandari gau trail in north.
Management responsibility	Phurke Devi Guthi.
Wetlands type	Fresh water/natural; Lacustrine; Seasonal.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp</u> : 11.5° C (May/June). <u>Avg. Min</u> : 1.8° C. <u>Avg. Rainfall</u> : About 1661.1 mm/yr (District Profile 2006).
Area	<u>Core Area</u> : 0.2 ha; Avg. Length: 60 m; Avg. Width: 20 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 2–1.5 m; <u>Basin Area</u> : 12.1 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: NA; pH: 6.5; Transparency: 0.3 m.
Soil feature	Grey color; Sandy Silt loam texture.
Shocks/vulnerability	Exposed to higher eutrophication.
Major aquatic plants	<u>Core Area</u> : <i>Polygonum barbatum</i> (LN: Pire Ghaans; HT: Em; LU: None).
Major plants in basin	<i>Castanopsis hystrix</i> (LN: Patle; HT: Tr; LU: None); <i>Rhododendron aboreum</i> (LN: Gurans; HT: Tr; LU: Flower for Rel); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Ful, Fd); <i>Pinus roxburghii</i> (LN: Khote salla; HT: Tr; LU: Tm, Resin); <i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Tm); <i>Polygonum barbatum</i> (LN: Pire Ghaans; HT: Gr; LU: None); <i>Arisaema tortuosum</i> (LN: Baanko; HT: Sh; LU: None); <i>Ficus benjamina</i> (LN: Swami; HT: Sh; LU: None); <i>Salix tetrasperma</i> (LN: Bains; HT: Sh; LU: None).
Fish	None.

Herpetofauna	<i>Psammodynastessp.</i> (LN: Kalo Sarpa; EN: Mock Viper); <i>Nanorana sp.</i> (LN: Kalo Bhyaguta; EN: Paa frog).
Birds	<i>Corvus macrorhynchos</i> (LN: Kalo Kaag; EN: Black crow); <i>Phalacrocorax carbo</i> (LN: Jalewa; EN: Greater Cormorant; migratory); <i>Hirundo rustica</i> (LN: Gaunthali; EN: Swallow; migratory); <i>Melanochlora sultanea</i> (LN: Chichilkote; EN: Sultan Tit; migratory); <i>Dicrurus macrocercus</i> (LN: Chibe; EN: Black Drongo); <i>Lophura leucomelanos</i> (LN: Kalij; EN: Kaliz Pheasant); <i>Dendrocittasp.</i> (LN: Kokale; EN: Treepie).
Mammals	<i>Hystrix sp.</i> (LN: Dumsi; EN: Porcupine); <i>Muntiacus muntjak</i> (LN: Mirga; EN: Barking Deer); <i>Panthera pardus</i> (LN: Chituwa; Common leopard); <i>Naemorhedus goral</i> (LN: Ghoral; EN: Himalayan goral).
Invasive alien species	<i>Eupatorium sp.</i> (LN: Banmara; EN: Thoroughwort); <i>Lantana camara</i> (LN: Phuli Ghaans; EN: Sage).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Bihibare</i> ; 30 minutes walk from lake; Main Trail: Okhaldhunga-Necha-Salleri; 5 hr walk from trail to lake.
Land use	Forestland (25%); Shrubland (10%); Grassland (10%); Agriculture (39%); Settlement (10%); Wetland (1%); Other: Barren land (5%).
Demography	Population: 3731; Male: 1753; Female: 1978; HHs: 838; Ethnicity: Brahmin/Chhetri (20%); Janajati (70%); Dalit (10%). Major Religion: Hinduism and Buddhism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>20.
Traditional production system	Terrace farming.
Traditional water use practices	None.
Cultural record	Phurke Devi temple; Myth that the God gets angry if water from phurke Pokhari brought at home.
Genesis/origin of lake	Named after God Phurke Devi.

### D. Ecosystem Goods/Services

Provisional services	None.
Cultural services	Festival in <i>Krishna Astami</i> and <i>Fagu Purnima</i> .

### E. Restoration/Management

Structural management	Wall fencing around lake.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

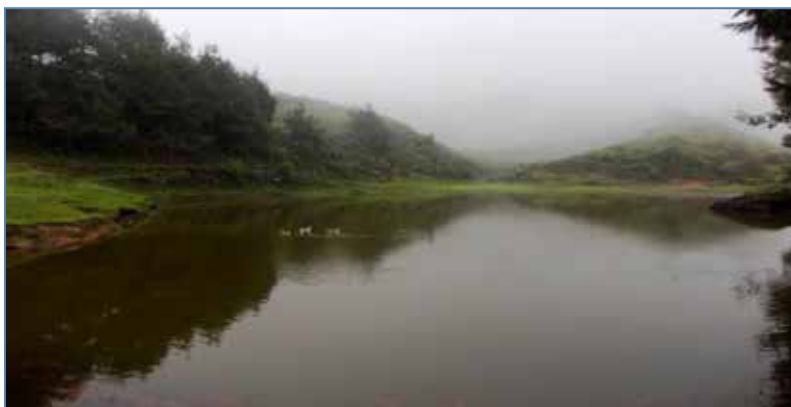
**G. Lake condition** Degrading (Excess weeds).

## 2. Suke Pokhari

Code: P1-D10-002

Topo sheet no: 2786-11

Date of inventory: June 5, 2013



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°25'15.4" N; <u>Lon</u> : 86°43'42.1" E; <u>Alt</u> : 2,074 masl.
Geographical position	Midlands/Flat.
Administrative feature	EDR; Solukhumbu district; Jubu VDC; Ward No: 7 (Currently: Dudhkaushika Rural Municipality, Ward No. 5); Suke Pokhari
Boundary	<u>Core Area</u> : Cultivation land in west and south; Suke Pokhari Bazar in east; Devi temple in north. <u>Basin Area</u> : Khiuli-Jubu trail in west; Chihan danda CF in east; Jubu-7 in west; Salju-Mahabhir trail in south; Phanlate-Lhare trail in north.
Management responsibility	Kalika Devi Group.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 11.5° C (May/June). <u>Avg. Min Temp</u> : 1.8° C. <u>Avg. Rainfall</u> : About 1661.1 mm/yr (District Profile 2006).
Area	<u>Core Area</u> : 0.2 ha; Avg. Length: 65 m; Avg. Width: 25 m; Avg. Depth: 1.5 m; Max-MinSurface Water Level: 4-2 m; <u>Basin area</u> : 18.6 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Small stream; Outlet: Drain to Mohona Khola.
Water quality	<u>Physicochemical parameter</u> : Temp.: NA; pH: 6.5; Transparency: 0.4 m.
Soil feature	Red and grey color; Sandysilt loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : None.
Major plants in basin	<i>Rhododendron</i> spp. (LN: Gurans; HT: Tr; LU: Ful); <i>Pinus roxburghii</i> (LN: Khote Salla; HT: Tr; LU: Tm, Ful); <i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Tm); <i>Arisaema tortuosum</i> (LN: Baanko; HT: Sh; LU: Oil); <i>Juniperus</i> spp. (LN: Dhupi; HT: Tr; LU: Ful, Resin); <i>Anaphalissp.</i> (LN: Buki Phool; HT: Gr; LU: None); <i>Fragariasp.</i> (LN: Bhui Ghaans; HT: Gr; LU: None).
Fish	None.
Herpetofauna	<i>Amphiesmasp.</i> (LN: Rato Sarpa; EN: KeelbackSnake); <i>Nanorana sp.</i> (LN: Paha; EN: Paa Frog); <i>Python molurus</i> (LN: Ajingar; EN: Rock Python); <i>Psammodynastessp.</i> (LN: Kalo Sarpa; EN: Mock Snake); <i>Najasp.</i> (LN: Tatepangre; EN: Cobra).

Birds	<i>Corvus macrorhynchos</i> (LN: Kaag; EN: Large-billed crow); <i>Hirundo rustica</i> (LN: Gaunthali; EN: Barn swallow); <i>Dicrurus macrocercus</i> (LN: Chibe; EN: Black drongo); <i>Lophura leucomelanos</i> (LN: Kalij; EN: Kaliz Pheasant).
Mammals	<i>Hystrix sp.</i> (LN: Dumsi; EN: Porcupine); <i>Naemorhedus goral</i> (LN: Ghoral; EN: Himalayan goral); <i>Muntiacus muntjak</i> (LN: Mirga; EN: Barking Deer); <i>Lepus sp.</i> (LN: Kharayo; EN: Hare).
Invasive alien species	<i>Eupatorium sp.</i> (LN: Banmara; En: Thogoughwort); <i>Pyracantha crenulata</i> (LN: Ghangaru; EN: Firethorn).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Suke Pokhari Bazar</i> ; 100 m from lake; Main Trail: Okhaldhunga-Nech-Jubu-Ainselu Kharka; 3 hr wald from trail to lake.
Demography	Population: 3,791; Male: 1,819; Female: 1,972; HHS: 826; Ethnicity: Brahmin/Chhetri (40%); Janajati (55%); Dalit (5%).Major Religion: Hinduism.
Jurisdiction/ownership	State.
Traditional water use practices	Local Irrigation for terrace farming.
Cultural record	None.
Genesis/origin of lake	There used to be 5 big lakes, later dried up into one so called "Suke Pokhari" that means dried pond.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Water for livestock; Fuelwood; Fodder; Mohona Khola Jor Dhara micro hydro power station (15 kw).
Cultural services	Fair during <i>Chandi Purnima</i> in <i>Baisakh</i> ; <i>Wrisi Purnima</i> in <i>Bhadra</i> ; <i>Dhanni Purnima</i> in <i>Mangshir</i> .

**E. Tourism information** No visitors; No tourism potential.

**F. Lake condition** Degrading.

## Annex-13: Inventory of lakes in Sunsari district

### 1. Barju (Chimdi)Tal

Code: P1-D11-001

Topo sheet no: 2687 09 B

Date of inventory:



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°30'00.00" N; <u>Lon</u> : 87°10'32.00" E; <u>Alt</u> : 63 masl.
Geographical position	Terai.
Administrative feature	EDR; Sunsari district; Chimdi VDC; Wards-3, 4 (Currently: Barju Rural Municipality, Ward No. 6); <i>Chimdi</i>
Boundary	<u>Core Area</u> : Cultivation land all directions. <u>Basin Area</u> : BudhiNadi in west; Musahartol-Chimdi-Daita Pandittol; Dhatatol-Chimdi road in south; Cultivation land north. <i>Barju Taal Simsar Bikas Tatha Samrakshyan Samiti.</i>
Managementresponsibility	
Wetlands type	Fresh water/natural; Lacustrine; Seasonal.

#### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 29.5 <sup>0</sup> C (Jul/Aug). <u>Avg. Min Temp</u> : 18.8 <sup>0</sup> C (Dec). <u>Avg. Rainfall</u> : 184.5 mm/yr (Reference to the climate of Tarahara, District Profile 2005).
Area	<u>Core Area</u> : 37.1 ha; Avg. Length: 1,000 m Avg. Width: 1,000 mAvg. Depth: 2 m; Max-MinSurface Water Level: 4-1 m; <u>Basin Area</u> : 499.2 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Barjiu nala; Outlet: Small drain in west and south.
Water quality	<u>Physicochemical parameter</u> : Temp.: 28 <sup>0</sup> C; pH: 6.5; Transparency: 0.3 m.
Soil feature	Dark grey color; Clay loam texture.
Shocks/vulnerability	Remain dried for over 50 years.
Major aquatic plants	<u>Core Area</u> : <i>Eichhorniacrassipes</i> (LN: Jalkumbhi; HT: Ff); <i>Nelumbo nucifera</i> (LN: Kamal; HT: Ff); <i>Chrysopogon aciculatus</i> sp. (LN: Kuro; HT: Em).
Major plants in basin	<i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Tm); <i>Ipomoea carnea</i> ssp. <i>fistulosa</i> (LN: Besharma; HT: Sh; LU: Fencing); <i>Chrysopogon aciculatus</i> (LN: Kuro; HT: Gr; LU: Fd); <i>Centella asiatica</i> (LN: Ghortapre; HT: Gr; LU: Med); <i>Saccharum spontaneum</i> (LN: Kans; HT: Em; LU: Thatchgrass); <i>Thysanolaena maxima</i> (LN: Amriso; HT: Em; LU: Broomgrass).
Fish	<i>Puntiassp.</i> (LN: Pothi; LU: Meat); <i>Heteropneustes fossilis</i> (LN: Singhi; LU: Meat); <i>Clarias batrachus</i> (LN: Mungri; LU: Meat); <i>Nangra sp.</i> (LN: Kanema; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat); <i>Cirrihinus mrigala</i> (LN: Naini; LU: Meat); <i>Catla Catla</i> (LN: Bhyakur; LU: Meat).



Herpetofauna	<i>Hemibungarus maccllellandii</i> (LN: Naag; EN: Coralsnake); <i>Xenochrophissp.</i> (LN: Dhodiya; EN: Keelback watersnake); <i>Ptyas mucosa</i> (LN: Dhaman; EN: Ratsnake); <i>Calotes versicolor</i> (LN: Chheparo; EN: Garden Lizard); <i>Varanus flavescens</i> (LN: Sungohoro; EN: Golden Monitor Lizard); <i>Rana sp.</i> (LN: Bhygutta; EN: Bullfrog).
Birds	<i>Acridotherestrictis</i> (LN: Rупpi; EN: Common Myna); <i>Streptopeliasp.</i> (LN: Dhukur; EN: Dove); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow); <i>Anassp.</i> (LN: Pani Haans; EN: Duck); <i>Ardeasp.</i> (LN: Bakulla; EN: Heron); <i>Leptoptilossp.</i> (LN: Haddifor; EN: Adjutant Stork); <i>Falco sp.</i> (LN: Baaj; EN: Falcon); <i>Alcedosp.</i> (LN: Matikore; EN: Kingfisher); <i>Anastomus oscitans</i> (LN: Ghinghiphor; EN: Asian Openbill Stork); <i>Pseudibis papillosa</i> (LN: Sanwari; Black Ibis).
Mammals	<i>Canis aureus</i> (LN: Syal; EN: Jackel); <i>Lepussp.</i> (LN: Kharayo; EN: Hare); <i>Felis chaus</i> (LN: BanBiral; EN: Jungle Cat).
Invasive alien species	<i>Eupatorium sp.</i> (LN: Banmara; EN: Thoroughwort); <i>Lantana camara</i> (LN: Lwang phool; EN: Sage).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Chimdi Bazar</i> ; about 1.5 Km from lake; Main Trail: Biratnagar-Chimdi village-Harinagara road; About 200 m from trail to lake.
Land use	Agriculture (80%); Settlement (10%); Wetland (5%); Others (5%).
Demography	Population: 5,629; Male: 2,794; Female: 2,835; HHs: 1455; Ethnicity: Brahmin/Chhetri (5%); Janajati (Tharu 80%); Dalit (5%); Others (10%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>2000 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Local irrigation system, Community pond (12).
Cultural record	Believed to be the <i>Yakchya Pokhari</i> of the Mahabharat period.
Genesis/origin of lake	Formed long year back by the shift of Koshi river (Ox-bow-lake).

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Water for livestock; Commercial fishery; Soil extraction; Bamboo for handicraft.
Cultural services	People worship Barju Dhami in the north of lake; Recreational and educational services.

### E. Restoration/Management

Structural management	Dam; Afforestation. Support from NLCD and DDC separately.
None-structural management	Restriction for any detrimental activities; Fishing regulated.
Conservation plan	Master plan of the Barju Tal available (prepared by Pro Public).
Monitoring plan	None.

### F. Tourism information

>10000 annual visitors; Tea shops in Chimdi Bazar; All season graveled road from Biratnagar; No hotels; High tourism potential; Needs infrastructure improvement and promotion.

### G. Lake condition

Degraded.

## 2. Daita Pokhari

Code: P1-D11-002

Topo sheet no: 2687 09 B

Date of inventory:



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°30'00.00" N; <u>Lon</u> : 87°10'20.00" E; <u>Alt</u> : 75 masl.
Geographical position	Terai.
Administrative feature	EDR; Sunsari district; Chimdi VDC; Ward No. 6 (Barju Rural Municipality, Ward No. 6); <i>Daita</i>
Boundary	<u>Core Area</u> : Cultivation land in all direction. <u>Basin Area</u> : Budhi Nadi in west; Cultivation land in east and south; Daita village in north.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Lacustrine; Seasonal.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 29.5° C (Jul/Aug). <u>Avg. Min Temp</u> : 18.8° C (Dec). <u>Avg. Rainfall</u> : 184.5 mm/yr (Reference to the climate of Tarahara, District Profile 2005).
Area	<u>Core Area</u> : 1.2 ha; Avg. Length: 100 m Avg. Width: 100 m Avg. Depth: 1.2 m; Max-Min Surface Water Level: 2.5-1 m; <u>Basin Area</u> : 14.8 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : 28° C; pH: 7; Transparency: 0.2 m.
Soil feature	Grey color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Nelumbo nucifera</i> (LN: Kamal; HT: Ff; LU: Orn); <i>Chrysopogon aciculatus</i> (LN: Kuro; HT: Em; LU: None).
Major plants in basin	<i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Tm); <i>Acanthocephalus chinensis</i> (LN: Kadam; HT: Tr; LU: Tm, Ful); <i>Eucalyptus</i> sp. (LN: Masala; HT: Tr; LU: Tm, Ful); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Tm, Ful); <i>Ficus bengalensis</i> (LN: Bar; HT: Tr; LU: Tm, Rel); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Rel); <i>Bambusa</i> sp. (LN: Bans; HT: Sh; LU: Handicraft, Fd).
Fish	<i>Channa orientalis</i> (LN: Garai; LU: Meat); <i>Macrornathus</i> sp. (LN: Baam; LU: Meat); <i>Clarias batrachus</i> (LN: Mungri; LU: Meat); <i>Heteropneustes fossilis</i> (LN: Singhi; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat); <i>Cirrihinus mrigala</i> (LN: Naini; LU: Meat).
Herpetofauna	<i>Naja naja</i> (LN: Goman; EN: Spectacled Cobra); <i>Xenochrophis</i> sp. (LN: Dhodiya; EN: Marshsnake); <i>Ptyas mucosa</i> (LN: Dhaman);

	EN: Rat snake); <i>Calotes versicolor</i> (LN: Chheparo; EN: Common Garden Lizard); <i>Varanus flavescens</i> (LN: Sungohoro; EN: Golden Monitor Lizard); <i>Pangshura sp.</i> (LN: Kachuwa; EN: Turtle).
Birds	<i>Acridotheressp</i> (LN: Ruppi; EN: Common Myna); <i>Streptopeliasp.</i> (LN: Dhukur; EN: Dove); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow); <i>Ardeasp.</i> (LN: Bakulla; EN: Heron); <i>Leptoptilossp.</i> (LN: Haddifor; EN: Adjutant Stork); <i>Falco sp.</i> (LN: Baaj; EN: Falcon); <i>Bubosp.</i> (LN: Huchil; EN: Eagle owl); <i>Otussp</i> (LN: Ullu; EN: Scops Owl).
Mammals	<i>Canis sp</i> (LN: Syal; EN: Jackel); <i>Pteropussp</i> (LN: Chamero; EN: Indian Flying fox).
Invasive alien species	<i>Eupatorium sp</i> (LN: Banmara; ENL: Thoroughwort); <i>Lantana camara</i> (LN: Lwang phool; EN: Sage).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Daita village</i> , lake very close to village; Main Trail: Biratnagar-Harinagara road; 2.5 Km from the main trail to lake.
Land use	Agriculture (30%); Grassland (20%); Settlement (40%); Wetland (5%); Other (5%).
Demography	Population: 540; Male: 260; Female: 280; HHs: 100; Ethnicity: <i>Janajati</i> (95%); <i>Dalit</i> (5%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>700 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Religiouspond (1).
Cultural record	A monester called <i>Daitya</i> in Nepali language constructed the pond so called Daita Pokhari; <i>Daitya</i> also constructed mud-filled road to go to the Ganga so the road named as <i>Daita Dhurstill</i> in existence.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock; Commercial fishery.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Good.

### 3. Magar Daha

Code: P1-D11-003

Topo sheet no: 2687 09 B

Date of inventory:



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°27'57.01" N; <u>Lon</u> : 87°11'19.51" E; <u>Alt</u> : 71 masl.
Geographical position	Terai.
Administrative feature	EDR; Sunsari district; Amahi Belaha VDC; Ward No. 5 (Barju Rural Municipality, Ward No. 5); <i>Belaha</i>
Boundary	<u>Core Area</u> : Cultivation land in all direction. <u>Basin Area</u> : Budhi Nadi in west; Chamadi-Amahi Belha road in east; Amahi Belha-Chaudharito road in south; Cultivation land in north.
Management responsibility	VDC.
Wetlands type	Fresh water/natural; Lacustrine; Seasonal.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 29.5° C (Jul/Aug). <u>Avg. Min Temp.</u> : 18.8° C (Dec). <u>Avg. Rainfall</u> : 184.5 mm/yr (Reference to the climate of Tarahara, District Profile 2005).
Area	<u>Core Area</u> : 3 ha; Avg. Length: 200 m Avg. Width: 170 m Avg. Depth: 1 m; Max–Min Surface Water Level: 3–0.5 m; <u>Basin Area</u> : 91.1 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp: 28°C; pH: 6.5; Transparency: 0.3 m.
Soil feature	Dark color; Sandy clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Nelumbonucifera</i> (LN: Kamal; HT: Ff; LU: Orn); <i>Chrysopogon aciculatus</i> (LN: Kuro; HT: Em; LN: Forage).
Major plants in basin	<i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Tm); <i>Acanthocephalus chinensis</i> (LN: Kadam; HT: Tr; LU: Tm, Ful); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Tm, Ful); <i>Bambusa</i> sp. (LN: Bans; HT: Sh; LU: Handicrafts, Fd).
Fish	<i>Channa orientallis</i> (LN: Garai; LU: Meat); <i>Heteropneustes fossilis</i> (LN: Singhi; LU: Meat); <i>Clarias batrachus</i> (LN: Mungri; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat).
Herpetofauna	<i>Naja</i> sp. (LN: Goman; EN: Spectacled Cobra); <i>Xenochrophis</i> sp. (LN: Dhodiya; EN: Marshsnake); <i>Ptyas mucosa</i> (LN: Dhaman);

	EN: Rat snake); <i>Calotes versicolor</i> (LN: Chheparo; EN: CommonGarden Lizard).
Birds	<i>Acridotheressp.</i> (LN: Ruppi; EN: Starling); <i>Streptopeliasp.</i> (LN: Dhukur; EN: Dove); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow).
Mammals	<i>Canis aureus</i> (LN: Syal; EN: Jackel).
Invasive alien species	<i>Eupatorium sp.</i> (LN: Banmara; EN: Forestkiller).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Belaha</i> ; 1 Km from lake; Main Trail: Biratnagar-Belaha-Chimdi road; 500 m from trail to lake.
Land use	Agriculture (80%); Settlement (15%); Wetland (5%).
Demography	Population: 6341; Male: 3225; Female: 3116; HHS: 1105; Ethnicity: Brahmin/Chhetri (5%); Janajati (80%); Dalit (10%); Others (5%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	NA.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock; Fishery.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

#### 4. Sabdov Jhil

Code: P1-D11-004

Topo sheet no: 2687 09 B

Date of inventory:



##### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°27'30.00" N; <u>Lon</u> : 87°11'06.66" E; <u>Alt</u> : 71 masl.
Geographical position	Terai.
Administrative feature	EDR; Sunsari district; Amahi Belaha VDC; Ward No.1,2 (Currently: Barju Rural Municipality, Ward No. 5); Belaha.
Boundary	<u>Core Area</u> : Cultivation land in all directions. <u>Basin Area</u> : Bypass road in west; Paddy field and Belaha village in east; Dewangunj-Bahuntol road in south; Belaha-Chaudaritol road in north.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Lacustrine; Seasonal.

##### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 29.5° C (Jul/Aug). <u>Avg. Min Temp</u> : 18.8° C (Dec). <u>Avg. Rainfall</u> : 184.5 mm/yr (Reference to the climate of Tarahara, District Profile 2005).
Area	<u>Core Area</u> : 4.9 ha; Avg. Length: 300 m Avg. Width: 200 m Avg. Depth: 1.5 m; Max-Min Surface Water Level: 3-0.5 m; <u>Basin Area</u> : 75.4 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp:28°C; pH: 7; Transparency: 0.25 m.
Soil feature	Dark color; Sandy clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Nelumbonucifera</i> (LN: Kamal; HT: Ff; LU: Orn); <i>Eichhornea crassipes</i> (LN: Jalkumbhi; HT: Ff; LU: None); <i>Euryale ferox</i> (LN: Makhan; HT: Ff; LU: Fr, Rel).
Major plants in basin	<i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Tm); <i>Acanthocephalus chinensis</i> (LN: Kadam; HT: Tr; LU: Tm, Ful); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Tm, Ful); <i>Bambusa</i> sp. (LN: Bans; HT: Sh; LU: Fd); <i>Eucalyptus</i> sp. (LN: Masala; HT: Tr; LU: Fd, Ful, Oil, Spice).
Fish	<i>Channa orientallis</i> (LN: Garai; LU: Meat); <i>Heteropneustes fossilis</i> (LN: Singhi; LU: Meat); <i>Clarias batrachus</i> (LN: Mungri; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat).

Herpetofauna	<i>Naja sp.</i> (LN: Goman; EN: Spectacled Cobra); <i>Xenochrophis sp.</i> (LN: Dhodiya; EN: Marshsnake); <i>Ptyas mucosa</i> (LN: Dhaman; EN: Rat snake); <i>Calotes versicolor</i> (LN: Chheparo; EN: Common Garden Lizard).
Birds	<i>Acridotheressp.</i> (LN: Ruppi; EN: Common Myna); <i>Streptopeliasp.</i> (LN: Dhukur; EN: Dove); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow).
Mammals	<i>Canis aureus</i> (LN: Syal; EN: Jackel).
Invasive alien species	<i>Eupatorium sp.</i> (LN: Banmara; EN: Thoroughwort); <i>Eichhornea crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth)
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Dhatta Tol</i> ; 300 m from lake; Main Trail: Biratnagar-Belaha-Dewanganja; 50 m from trail to lake.
Land use	Agriculture (80%); Settlement (15%); Wetland (5%).
Demography	Population: 1717; Male: 849; Female: 860; HHs: 335; Ethnicity: Janajati (75%); Dalit (25%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>300 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Religious pond (1).
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Fishery; Water for livestock.
Cultural services	Faironce in a year in the <i>Bicho Than Samiti</i> .

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

## 5. Taal Talaiya (7 lakes complex)

Code: P1-D11-005

Topo sheet no: 2687 06 A

Date of inventory: August 18, 2014



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26 <sup>o</sup> 41'59.93" N; <u>Lon</u> : 87 <sup>o</sup> 29'00.42" E; <u>Alt</u> : 135 masl.
Geographical position	Terai.
Administrative feature	EDR; Sunsari district; Itahari Municipality; Ward no. 2, 3 (Currently: Itahari Sub-Metropolitan City, Ward No. 2, 3); <i>TalTalaiya</i>
Boundary	<u>Core Area</u> : Forest in east and west; Forest fire line in north; Road in south. <u>Basin Area</u> : Belaha village and Sera Khola in east; Tangratangri Khola in west; Forest in north; Settlement in south.
Management responsibility	Santinagari CF Itahari-2 and Saraswoti CF Itahari-3 and <i>TalTalaiya Bikash tatha Samrakshyan Samiti</i> .
Wetlands type	Man-made.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 29.5 <sup>o</sup> C (Jul/Aug). <u>Avg. Min Temp.</u> : 18.8 <sup>o</sup> C (Dec). <u>Avg. Rainfall</u> : 184.5 mm/yr (Reference to the climate of Tarahara, District Profile 2005).
Area	<u>Core Area</u> : 3.2 ha; Avg. Length: 1000 m; Avg. Width: 50 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 3-1.5 m; <u>Basin Area</u> : 242.3 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Tengra Khola; Outlet: Canal (2).
Water quality	<u>Physicochemical parameter</u> : Temperature: 27 <sup>o</sup> C; pH: 6.5; Transparency: 0.5 m.
Soil feature	Grey color; Sandysilt and clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Nelumbonucifera</i> (LN: Kamal; HT: Ff; LU: Orn); <i>Eichhornea crassipes</i> (LN: Jalkumbhi; HT: Ff; LU: None); <i>Euryale ferox</i> (LN: Makhan; HT: Ff; LU: Fr, Rel).
Major plants in basin	<i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm, Ful, Fd); <i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Tm); <i>Acanthocephalus chinensis</i> (LN: Kadam; HT: Tr; LU: Tm, Ful); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Tm, Ful); <i>Bambusa</i> sp. (LN: Bans; HT: Sh; LU: Handicraft, Fd); <i>Eucalyptus</i> sp. (LN: Masala; HT: Tr; LU: Fd, Ful, Spice; Oil).
Fish	<i>Channa orientalis</i> (LN: Garai; LU: Meat); <i>Heteropneustes fossilis</i> (LN: Singhi; LU: Meat); <i>Clarias batrachus</i> (LN: Mungri; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat).



Herpetofauna	<i>Naja sp.</i> (LN: Goman; EN: Cobra); <i>Xenochrophissp.</i> (LN: Dhodiya; EN: Marshsnake); <i>Ptyas mucosa</i> (LN: Dhaman; EN: Ratsnake); <i>Calotes versicolor</i> (LN: Chheparo; EN: Common Garden Lizard).
Birds	<i>Gypssp.</i> (LN: Giddha; EN: Vulture); <i>Bubosp.</i> (LN: Lache; EN: Woodpecker); <i>Leptoptilos sp.</i> (LN: Bhudifor; EN: Lesser Adjutant); <i>Acridotheressp.</i> (LN: Ruppi; EN: Common Myna); <i>Streptopeliasp.</i> (LN: Dhukur; EN: Dove); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow).
Mammals	<i>Canis aureus</i> (LN: Syal; EN: Jackel); <i>Axis axis</i> (LN: Chittal; EN: Spotted Deer); <i>Hystrix sp.</i> (LN: Dumsi; EN: Porcupine); <i>Manis sp.</i> (LN: Salak; EN: Pangoline); <i>Funambulus sp.</i> (LN: Lokharke; EN: Squirrel); <i>Felis bengalensis</i> (LN: Chari Bagh; EN: Leopard Cat); <i>Lepussp.</i> (LN: Kharayo; EN: Hare); <i>Felis chaus</i> (LN: Banbiralo; EN: Jungle Cat).
Invasive alien species	<i>Eichhornea crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Shaantinagar</i> ; 200 m from lake; Main Trail: Itahari-Taaltalaiya road; 200 m from trail to lake.
Land use	Forest (60%); Agriculture (25%); Settlement (10%); Wetland (5%).
Demography	Population: 1120; Male: 600; Female: 520; HHs: 200; Ethnicity: Brahmin/Chhetri (20%); Janajati (30%); Dalit (10%); Other (40%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>1500 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	None.
Cultural record	<i>Buda Subba</i> temple.
Genesis/origin of lake	Dammed.

### D. Ecosystem Goods/Services

Provisional services	Irrigation (Tengratengri canal and Hudu Dam); Fishery; Water for livestock.
Cultural services	Budha Subba temple; <i>Sansari Puja</i> ; Picnic spot; Recreation (Boating and elephant ride).

### E. Restoration/Management

Structural management	Dam constructed by Urban and Town Development Deptment; Afforestation in the surroundings; Inputs under the President's Chure Conservation Program.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### 6. Tourism information

>10,000 visitor; Good parking facilities; Small tea shop and hotels; Good hotel and market facilities in Itahari municipality 4 Km from lake in south. High tourism potential; Needs promotional activites.

### 7. Lake condition

Degrading.

## Annex-14: Inventory of lakes in Taplejung district

### 1. Kali Pokhari-I

Code: P1-D12-001

Toposheet no: 2787 11

Date of inventory: June 6, 2012



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27° 23'59.00"N; <u>Lon</u> : 87°45'08.10" E; <u>Alt</u> : 2685 masl.
Geographical position	Midlands.
Administrative feature	EDR; Taplejung district; Phurumbu VDC; Ward No. 3 (Currently: Phungling Municipality, Ward No. 10); Mayam, <i>Bhalugaude</i>
Boundary	<u>Core Area</u> : Natural embankment and forest cover in all directions. <u>Basin Area</u> : Forest in all directions.
Management responsibility	VDC.
Wetlands type	Fresh water/natural; Palustrine; Emergent.

#### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 26.3 <sup>0</sup> C. <u>Avg. Min Temp</u> : 5 <sup>0</sup> C. <u>Rainfall</u> : 1372 mm/yr (DDC Profile 2008).
Area	<u>Core Area</u> : 0.01 ha; Avg. Length: 140 m; Avg. Width: 35 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 3-1 m; <u>Basin Area</u> : 2.7 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Small stream; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : pH: 6; Transparency: 0.25 m.
Soil feature	Grey and dark color; Loamy sand texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Cyperus sp.</i> (LN: Mothe; HT: Em), <i>Poa sp.</i> (HT: Em).
Major plants in basin	<i>Paris polyphylla</i> (LN: Satuwa; HT: Hr; LU: Med); <i>Swertia chirayita</i> (LN: Chiraito; HT: Hr; LU: Med); Fern (LN: Unio; HT: Hr; LU: Fd); Lichens (LN: Jhyau; HT: Hr); <i>Rhododendron hodgsonii</i> (LN: Potlinngo; HT: Tr; LU: Ful); <i>Dendrobium sp.</i> (LN: Sunakhari; HT: Epiphyte, LU: Orn); <i>Ilex fragilis</i> (LN: Liso; HT: Tr; LU: Fd, Ful); <i>Dodecandenia sp.</i> (LN: Pohela; HT: Tr; LU: Ful, Fd); <i>Symplocos pyrifolia</i> (LN: Kholme; HT: Tr; LU: Ful); <i>Symplocos ramosissima</i> (LN: Kharane; HT: Tr; LU: Ful); <i>Viburnum erubescens</i> (LN: Asare; HT: Tr; LU: Ful); <i>Lyonia ovalifolia</i> (LN: Angeri; HT: Tr; LU: Ful); <i>Quercus sp.</i> (LN: Badranth; HT: Tr; LU: Ful, Fd); <i>Acer campbellii</i> (LN: Kabase; HT: Tr; LU: Ful, Fd); <i>Rubus ellipticus</i> (LN: Aaiselu; HT: hr; LU: Fd).

Fish	None.
Herpetofauna	<i>Nanoranas</i> . (LN: Paha; EN: Paa Frog).
Birds	<i>Lophura leucomelanos</i> (LN: Kaliz; EN: Kaliz Pheasant); <i>Arborophila torqueola</i> (LN: Piura; EN: Hill Partridge); <i>Urocissa flavirostris</i> (LN: Lampuchhre; Yellow billed Blue Magpie); <i>Corvus</i> sp. (LN: Kaag; EN: Crow); <i>Turdoides nipalensis</i> (LN: Kande Vyakuro; EN: Spiny Babbler); <i>Monticola</i> sp. (LN: Chachar; EN: Rock Thrush); <i>Glaucidium</i> sp. (LN: Lato koseru; EN: Owlet).
Mammals	<i>Ailurus fulgens</i> (LN: Punde; EN: Redpanda); <i>Ursus thibetanus</i> (LN: Kalobhalu; EN: Asian Black Bear); <i>Moschus</i> sp. (LN: Kasturi; Musk Deer); <i>Naemorhedus goral</i> (LN: Ghoral; EN: Himalayan Ghoral); <i>Capricornis sumatraensis</i> (LN: Thar EN: Serow).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Bhalugaude</i> ; 0.5 Km from lake; Main Trail: Pathivara-Deurali trail road.
Land use	Forestland (33%); Shrubland (10%); Grassland (50%); Settlement (2%); Wetlands (5%).
Demography	Population: 50; Male: 20; Female: 30; HHs: 6; Ethnicity: Brahmin/Chettri (60%); Janajati (40%); Major Religion: Hinduism.
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	>15 no.
Traditional production system	Traditional terrace farming.
Traditional water use practices	Communitypond (1).
Cultural record	None.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

## 2. Kali Pokhari-II

Code: P1-D12-002

Toposheet no:2787 - 12

Date of inventory: June 6, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 20'41.47"N; <u>Lon.</u> : 87°55'28.64" E; <u>Alt.</u> : 2680 masl.
Geographical position	Midlands.
Administrative feature	EDR; Taplejung district; Surumakhem, Kalikhola VDC (Currently: Sidingwa Rural Municipality); <i>Kali Dada</i>
Boundary	<u>Core Area</u> : Vegetation in east and north; Foot trail in west and south. <u>Basin Area</u> : Talkharka-Hakebun taril in west; Dense forest in east and north; Mukubhanjyang-Deuralibhanjyang in south.
Management responsibility	State.
Wetlands type	Fresh water/natural; Palustrine; Emergent, Forest.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 26.3 <sup>0</sup> C. <u>Avg. Min Temp.</u> : 5 <sup>0</sup> C. <u>Rainfall</u> : 1372 mm/yr (DDC Profile 2008).
Area	<u>Core Area</u> : 0.4 ha; Avg. Length: 120 m; Avg. Width: 50 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 3-1.5 m; <u>Basin Area</u> : 6.8 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None Outlet: None.
Water quality	<u>Physicochemical parameter</u> : pH: Neutral; Transparency: 0.6 m.
Soil feature	Grey and dark color; Loamy sand texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Cyperus sp.</i> (LN: Mothe; HT: Em; LU: Fd).
Major plants in basin	<i>Paris polyphylla</i> (LN: Satuwa; HT: Hr; LU: Med); <i>Swertia chirayita</i> (LN: Chiraito; HT: Hr; LU: Med); Fern (LN: Unio; HT: Hr; LU:Fd); Lichens(LN: Jhyau; HT: Hr; LN: None); <i>Rhododendron hodgsonii</i> (LN: Potlinggo; HT: Tr; LU: Ful); <i>Dendrobium sp.</i> (LN: Sunakhari; HT: Epiphyte, LU: Orn); <i>Ilex fragilis</i> (LN:Liso; HT: Tr; LU: Fd, Ful); <i>Symplocos ramosissima</i> (LN: Kharane; HT: Tr; LU: Ful); <i>Viburnum erubescens</i> (LN: Asare; HT: Tr; LU: Ful); <i>Lyonia ovalifolia</i> (LN: Angeri; HT: Tr; LU: Ful); <i>Acer campbellii</i> (LN: Kabase; HT: Tr; LU: Ful, Fd); <i>Rubus ellipticus</i> (LN: Aaiselu; HT: Hr; LU: Fd).
Fish	None.
Herpetofauna	<i>Amolops monticola</i> (LN: Khole Paha; EN: Mountain Cascade Frog).

Birds	<i>Lophura leucomelanos</i> (LN: Kaliz; EN: Kaliz Pheasant); <i>Arborophila torqueola</i> (LN: Piura; EN: Hill Partridge); <i>Corvus</i> sp. (LN: Kaag; EN: Crow); <i>Turdoides nipalensis</i> (LN: Kande Vyakuro; EN: Spiny Babbler); <i>Monticolasp.</i> (LN: Chachar; EN: Rock Thrush).
Mammals	<i>Ailurus fulgens</i> (LN: Punde/Habre; EN: Redpanda); <i>Ursus thibetanus</i> (LN: Kalobhalu; EN: Asian Black bear); <i>Moschus</i> sp. (LN: Kasturi; EN: Musk Deer); <i>Naemorhedus goral</i> (LN: Ghoral; EN: Himalayan Ghoral); <i>Capricornis sumatraensis</i> (LN: Thar; EN: Serow).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Tembok</i> ; 4 Km from lake; Main Trail: Chyanthapu-Tembok-Surimkhim; 50 m from lake.
Land use	Forestland (70%); Shrubland (25%); Wetlands (5%).
Demography	No settlement at basin.
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	None
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Water for wild animals.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	none.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

### 3. Suke Pokhari

Code: P1-D12-003

Toposheet no:2787 - 12

Date of inventory: June 12, 2012



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 20'40.32"N; <u>Lon.</u> : 87°56'07.96" E; <u>Alt.</u> : 2957 masl.
Geographical position	Midlands.
Administrative feature	EDR; Taplejung district; Surumakhem VDC (Currently: Sidingwa Rural Municipality, Ward No. 7); Suke Pokhari, <i>DeuraliBhanjyang</i>
Boundary	<u>Core Area</u> : Vegetation in east and north; Foot trail in west and south. <u>Basin Area</u> : Burukhim-Sukepohari trail in west; Deuralibhnjyang-Kerabari trai in east; Khopi-Deuralibhanjyang trail in south; Dense forest in north.
Managementresponsibility	State
Wetlands type	Fresh water/natural; Palustrine; Emergent, Forest.

#### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 26.3 <sup>0</sup> C. <u>Avg. Min Temp</u> : 5 <sup>0</sup> C. <u>Rainfall</u> : 1372 mm/yr (DDC Profile 2008).
Area	<u>Core Area</u> : 0.04 ha; Avg. Length: 70 m; Avg. Width: 30 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 2-1 m; <u>Basin Area</u> : 5.1 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : NA.
Soil feature	Grey and dark color; Rocky sand and Loamy sand texture.
Shocks/vulnerability	None
Major aquatic plants	<u>Core Area</u> : <i>Rorripa sp.</i> (LN: Pani Jhar; HT: Em; LU: Fd).
Major plants in basin	<i>Paris polyphylla</i> (LN: Satuwa; HT: Hr; LU: Med); <i>Swertia chirayita</i> (LN: Chiraito; HT: Hr; LU: Med); Fern (LN: Unio; HT: Hr; LU: Fd); Lichens (LN: Jhyau; HT: Hr); <i>Rhododendron arboreum</i> (LN: Gurans; HT: Tr; LU: Ful); <i>Dendrobium sp.</i> (LN: Sunakhari; HT: Epiphyte, LU: Decoration); <i>Ilex fragilis</i> (LN: Liso; HT: Tr; LU: Fd, Ful); <i>Symplocos ramosissima</i> (LN: Kharane; HT: Tr; LU: Ful); <i>Viburnum erubescens</i> (LN: Asare; HT: Tr; LU: Ful); <i>Lyonia ovalifolia</i> (LN: Angeri; HT: Tr; LU: Ful).
Fish	None.
Herpetofauna	<i>Amolops monticola</i> (LN: Khole Paha; EN: Mountain Cascade Frog).
Birds	<i>Lophura leucomelanos</i> (LN: Kaliz; EN: Kaliz Pheasant); <i>Arborophila torqueola</i> (LN: Piura; EN: Hill partridge); <i>Turdoides</i>

	<i>nipalensis</i> (LN: Kande Vyakuro; EN: Spiny Babbler); <i>Monticolasp.</i> (LN: Chachar; EN: Rock Thrush); <i>Glaucidiumsp.</i> (LN: Lato Koseru; EN: Owlet); <i>Urocissa flavirostris</i> (LN: Lampuchhre; EN: Yellow billed blue magpie).
Mammals	<i>Ailurus fulgens</i> (LN: Punde; EN: Redpanda); <i>Ursus thibetanus</i> (LN: Kalobhalu; Asian Black bear); <i>Moschus sp.</i> (LN: Kasturi; EN: Musk Deer); <i>Naemorhedus goral</i> (LN: Ghoral; EN: Himalayan Ghoral); <i>Capricornis sumatraensis</i> (LN: Thar; EN: Serow); <i>Canis</i> sp. (LN: syal; EN: Jackal).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Tembok</i> ; 4 Km from lake; Main Trail: Chyanthapu-Tembok-Surimkhim; 50 mfrom lake.
Land use	Forestland (65%); Shrubland (25%); Grassland (5%); Wetlands (5%).
Demography	No settlement at basin.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Water for wild animals.
Cultural services	None.

### E. Restoration/Management

Structural management	None
Non-structural management	None
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

## Annex-15: Inventory of lakes in Terhathum district

### 1. Chichiling Pokhari

Code: P1-D13-001

Topo sheet no: 2787 – 14 A

Date of inventory: 31 May, 2012



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°10'03.25"N; <u>Lon</u> : 87°34'55.83" E; <u>Alt</u> : 2,105 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	EDR; Terathum district; Jaljale VDC; Ward No. 3 (Currently: Fedap Rural Municipality, Ward No. 3); <i>Chichilingpokhari</i>
Boundary	<u>Core Area</u> : Forest in east, west and south: Grassland in north. <u>Basin Area</u> : Forest area in all directions.
Management responsibility	Chichiling Pokhari Conservation Committee
Wetlands type	Fresh water/natural; Palustrine; Emergent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp</u> : 31.4 <sup>0</sup> C (May). <u>Avg. Min Temp</u> : 8 <sup>0</sup> C (Dec). <u>Rainfall</u> : 706.5 mm/yr (Reference to climate record of Dhankuta Station, Statistical Year Book of Nepal 2013, CBS).
Area	<u>Core Area</u> : 0.2 ha; Avg. Length: 100 m; Avg. Width: 35m; Avg. Depth: 1 m; Max–Min Surface Water Level: 3-1 m; <u>Basin Area</u> : 2.0 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp. 20 <sup>0</sup> C; pH: 6.5; Transparency; 0.3 m.
Soil feature	Dark and grey color; Rocky sand, Sandy and loamy sand texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Nymphaea sp.</i> (LN: Kamal: HT: Ff, LU: Orn).
Major plants in basin	<i>Pinus roxburghii</i> (LN: Khote Salla: HT: Tr, LU: Tm, Resin); <i>Alnus nepalensis</i> (LN: Uttis; HT: Tr; LU: Timber, Ful); <i>Pyracantha crenulata</i> (LN: Ghansgaru; HT: Sh); <i>Castanopsis hystrix</i> (LN: Patle HT: Tr; LU: Ful); <i>Rhododendron arboretum</i> (LN: Laligurans; HT: Tr; LU: Ful, Juice); <i>Pyrus pashia</i> (LN: Male; HT: Tr; LU: Ful); <i>Fraxinus floribunda</i> (LN: Lakhure; HT: Tr; LU: Fd, Ful); <i>Lyonia ovalifolia</i> (LN: Angeri HT: Tr; LU: Ful); <i>Rubus ellipticus</i> (LN: Aaishelu; HT: Sh; LU: Fr); <i>Eurya acuminata</i> (LN: Ghigano; HT: Tr; LU: Fd, Ful); Fern(HT: Hr; LU: Fertilizer).



Fish	<i>Ctenopharyngodon idellus</i> (LN: Carp; LU: Meat).
Herpetofauna	<i>Nanosp.</i> (LN: Paha; EN: Paa Frog); <i>Psammodynastessp.</i> (LN: Kaalo Sarpa; EN: Mock Snake); <i>Calotes versicolor</i> (LN: Chheparo; EN: Common Garden Lizard).
Birds	<i>Lophura leucomelanos</i> (LN: Kaliz; EN: Kaliz Pheasant; LU: Meat); <i>Streptopeliasp.</i> (LN: Dhukur; EN: Spotted Dove; LU: Meat); <i>Dicrurussp.</i> (LN: Chibe; EN: Black Drongo); <i>Corvussp.</i> (LN: Kaag; EN: Crow); <i>Psittaculasp.</i> (LN: Suga; EN: Parakeet); <i>Acridotheressp.</i> (LN: Ruppi; EN: Starling); <i>Passer domesticus</i> (LN: Bhangera; EN: House Sparrow); <i>Hirundo sp.</i> (LN: Gauthali; EN: Barn Swallow); <i>Dendrocitta formosae</i> (LN: Kokale; EN: Grey Treepie); <i>Urocissa sp.</i> (LN: Lampuchhre; EN: Blue Magpie).
Mammals	<i>Lepus sp.</i> (LN: Kharayo; EN: Indian Hare); <i>Muntiacus muntjak</i> (LN: Mirga; EN: Barking Deer).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Deurali, Jaljale</i> ; 50 m from lake; Main Trail: Deusi Danda-Terathum trail.
Land use	Forestland (65%); Shrubland (15%); Grassland (5%); Agriculture (5%); Settlement (10%); Wetlands (2%); Others (3%).
Demography	Population: 140; Male: 65; Female: 85; HHs: 25; Ethnicity: Brahmin/Chettri (30%); Janajati (55%); Others (10%); Major Religion: Hinduism/Buddhism.
Jurisdiction/ownership	State.
Wetlands dependent community	Magar; HH: 9; Occupation: Agriculture; Wetland dependency: 4 month/yr, HH income (annual): Rs. 40,000.
Livestock at basin	>300 no.
Traditional production system	Terrace farming (Maize and millet).
Traditional water use practices	Spring and stone spout.
Cultural record	Goddess temple.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Domestic water use; Water for livestock; Fish supply; Timber; Fuelwood; Fodder.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	Chichiling Conservation Plan.
Monitoring plan	None.

### F. Tourism information

A few visitors; No tourism potential.

### G. Lake condition

Degrading.

## 2. Marga Pokhari

Code: P1-D13-002

Topo sheet no: 2787 – 14 D

Date of inventory: 12 April, 2012



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27° 05' 10.8"N; <u>Lon</u> : 87° 24' 56.1" E; <u>Alt</u> : 2432 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	EDR; Terhathum district; Andim & Dagapa VDC; Ward No. 7,8 (Currently: Chatar Rural Municipality, Ward No. 1); <i>Dangdarge Marga Pokhari</i>
Boundary	<u>Core Area</u> : Natural embankments and grassland in all directions. <u>Basin Area</u> : Forest in east and west and north; Bhotegau-Tarbari trail in south.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Palustrine; Emergent & Forest.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 31.4° C (May). <u>Avg. Min Temp</u> : 8° C (Dec.). <u>Rainfall</u> : 706.5 mm/yr (Referece to climate record of Dhankuta Station, Statistical Year Book of Nepal 2013, CBS).
Area	<u>Core Area</u> : 0.2 ha; Avg. Length: 100 m; Avg. Width: 50 m; Avg. Depth: 1.5 m; Max-MinSurface Water Level: 3-1.5 m; <u>Basin Area</u> : 4.1 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 18° CpH: 6.5; Transparency: 0.6 m.
Soil feature	Red and grey color; Sandy silt loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : None.
Major plants in basin	<i>Lyonia ovalifolia</i> (LN: Angeri; HT: Tr, LU: Ful); <i>Castanopsis indica</i> (LN: Dhalne; HT: Tr; LU: Fd, Ful); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Fd, Tm); <i>Juniperus sp.</i> (LN: Dhupi; HT: Tr; LU: Incent stick); <i>Berberis sp.</i> (LN: Chuttro;HT: Hr; LU: Med); <i>Michelia champaca</i> (LN: Chanp; HT: Tr; LU: Fd, Tm); <i>Viburnum erubescens</i> (LN: Asare; HT: Tr; LU: Tm); <i>Eurya acuminata</i> (LN: Jhingaune; HT: Tr; LU: Fd); <i>Drepanostachyum suberecta</i> (LN: Malingo; HT: Tr; LU: Ful, fd); <i>Swertia chirayita</i> ( LN: Chiraito; HT: Hr; LU: Med); <i>Dendrobiumsp.</i> (LN: Sunakhari; HT: Hr; LU: Orn); <i>Rubus ellipticus</i> (LN: Ainselu; HT: Sh; LU: Med, Fr); <i>Rhododendron arboreum</i> (LN: Laligurans; HT: Tr; LU: Tm, Orn); <i>Rhododendron triflorum</i> (LN: Setogurans; HT: Tr; LU: Juice, Tm).

Fish	None.
Herpetofauna	None.
Birds	<i>Streptopelia</i> sp. (LN: Dhukur; EN: Dove); <i>Lophophorus impejenu</i> (LN: Danphe; EN: Impeyan Pheasant); <i>Anas</i> sp. (LN: Haans; N: Duck); <i>Treron</i> sp. (LN: Haleso; EN: Green Pigeon); <i>Monticola</i> sp. (LN: Chachar; EN: Rock Thrush); <i>Hirundo</i> sp. (LN: Gauthali; EN: Swallow).
Mammals	<i>Ochotona</i> sp. (LN: Kharayo; EN: Pika); <i>Moschus</i> sp. (LN: Mirga; EN: Musk Deer); <i>Ursus thibetanus</i> (LN: Bhalu; EN: Asian Black bear); <i>Canis</i> sp. (LN: Syal; EN: Jackal).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Dung Durge</i> ; 1 Km from lake; Main Trail: Sidhuwa-Sukrabare; 1 Km from trail to lake.
Land use	Forestland (40%); Shrubland (20%); Grassland (5%); Agriculture (20%); Settlement (5%); Wetlands (2%); Others (8%).
Demography	Population: 60; Male: 25; Female: 35; HHs: 15; Ethnicity: Brahmin/Chettri (20%); Janajati (60%); Others (20%). Major Religion: Buddhism/Hinduism.
Jurisdiction/ownership	State.
Livestock at basin	> 30 no.
Wetland dependent community	None
Traditional production system	Traditional maize, millet and potato in terrace.
Traditional water use practices	Stone spout.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock and wild animals; Fodder/forage; Fuelwood; NTFPs.
Cultural services	Recreational; Local fair on Saturday.

### E. Restoration/Management

Structural management	None
Non-structural management	Volunteer restriction for any kind of pollution.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Good.

### 3. Mudke Aahal

Code: P1-D13-003

Topo sheet no: 2787 – 14 D

Date of inventory: 12 April, 2012



#### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 27°01'45.10"N; <u>Lon.</u> : 87°22'07.30" E; <u>Alt.</u> : 1,515 masl.
Geographical position	Mahavarat Range.
Administrative feature	EDR; Terhathum district; Panchakanya VDC; Ward No. 8, 9 (Currently: Chatar Rural Municipality, Ward No. 3); <u>Sanischare</u>
Boundary	<u>Core Area</u> : Sparse vegetation in east; Foot trail in west; Barren land in north; Agricultural land in south. <u>Basin Area</u> : Forest in east, west and south; Terrace farming in north.
Management responsibility	VDC.
Wetlands type	Fresh water/natural; Palustrine; Emergent.

#### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 31.4° C (May). <u>Avg. Min Temp</u> : 8° C (Dec.). <u>Rainfall</u> : 706.5 mm/yr (Reference to climate record of Dhankuta Station, Statistical Year Book of Nepal 2013, CBS).
Area	<u>Core Area</u> : 0.1 ha; Avg. Length: 40 m; Avg. Width: 25 m; Avg. Depth: 0.5 m; Max–MinSurface Water Level: 1.5-0.5 m; <u>Basin Area</u> : 5.2 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 22° C; pH: Slightly acidic; Transparency: 0.1 m.
Soil feature	Red and grey color; Sandy loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : <i>Solanum aculeatissimum</i> (LN: Kalchudo; HT: Em; LU: None); <i>Alternanthera philoxeroides</i> (LN: Jhar; HT: Em; LU: Pig food).
Major plants in basin	<i>Eucalyptus</i> sp. (LN: Masala: HT: Tr, LU: Tm); <i>Pyrus communis</i> (LN: Naspatti; HT: Tr; LU: Fd, Fr); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Fd, Tm); <i>Schima walichii</i> (LN: Chilaune; HT: Tr; LU: Fd); <i>Erythrina arborescens</i> (LN: Phaledo; HT: Tr; LU: Fd); <i>Prunus cerasoides</i> (LN: Paiyun; HT: Tr; LU: Fd); <i>Rhododendron arboreum</i> (LN: Laligurans; HT: Tr; LU: Tm, Orn); <i>Bambusa</i> sp. (LN: Bans; HT: Tr; LU: Handicraft, Fd); <i>Artocarpus lacucha</i> (LN: Badahar; HT: Tr; LU: Fr); <i>Rubus ellipticus</i> (LN: Aainselu; HT: Sh; LU: Fr).
Fish	<i>Clarias batrachus</i> (LN: Mungri; LU: Meat).

Herpetofauna	<i>Amolops monticola</i> (LN: Bhyaguto; EN: Mountain Cascade Frog); <i>Psammodynastessp.</i> (LN: Kaalo Sarpa; EN: Mock Snake).
Birds	<i>Streptopelia sp.</i> (LN: Dhukur; EN: Dove); <i>Pycnonotussp.</i> (LN: Jureli; EN: Bulbul); <i>Milvus migrans</i> (LN: Chil; EN: Black kite); <i>Gypssp.</i> (LN: Giddha; EN: Vulture); <i>Corvussp.</i> (LN: Kaag; EN: Crow).
Mammals	<i>Lepus sp.</i> (LN: Kharayo; EN: Indian Hare); <i>Myotis sp.</i> (LN: Chamero; EN: Bat).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Sanischare Bazar</i> ; 20 m from lake; Main Trail: Seduwa-Sukrabare–Panchakanya road; 20 m from trail to lake.
Land use	Forestland (3%); Grassland (20%); Agriculture (60%); Settlement (10%); Wetlands (2%); Others (5%).
Demography	Population: 75; Male: 33; Female: 42; HHs: 15; Ethnicity: Janajati (100%); Major Religion: Kirat.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>75.
Traditional production system	Traditional terrace farming (Maize and millet).
Traditional water use practices	Stone spout.
Cultural record	None
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock; Fodder/forage.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

#### 4. Panchkanya Pokhari

Code: P1-D13-004

Topo sheet no: 2787 – 14 D

Date of inventory: 31 May, 2012



##### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°00' 23.11"N; <u>Lon</u> : 87°28'15.17" E; <u>Alt</u> : 1,275 masl.
Geographical position	Mahabharat Range.
Administrative feature	EDR; Terathum district; Panchakanya VDC; Ward No. 4 (Currently: Chatar Rural Municipality, Ward No. 3); <i>Panchakanya</i> .
Boundary	<u>Core Area</u> : Agricultural land in west; south and north; Temple and settlement in east. <u>Basin Area</u> : Baissalla-Marepa trail in west; Marepa-Atmara trail in east; Agricultural land in south and north.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Palustrine; Emergent.

##### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 31.4 <sup>0</sup> C (May). <u>Avg. Min Temp</u> : 8 <sup>0</sup> C (Dec.). <u>Rainfall</u> : 706.5 mm/yr (Referece to climate record of Dhankuta Station, Statistical Year Book of Nepal 2013, CBS).
Area	<u>Core Area</u> : 0.2 ha; Avg. Length: 80 m; Avg. Width: 40m; Avg. Depth: 0.5 m; Max-MinSurface Water Level: 2–0.5 m; <u>Basin Area</u> : 13.1 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 20 <sup>0</sup> C; pH: 6; Transparency: 0.3 m.
Soil feature	Red and grey color; Sandyloam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : None.
Major plants in basin	<i>Ficus bengalensis</i> (LN: Bar; HT: Tr, LU: Fd, Rel); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Fd, Rel); <i>Ostodes paniculata</i> (LN: Pipari; HT: Tr; LU: Fd); <i>Bambusa sp.</i> (LN: Bans; HT: Sh; LU: Fd); <i>Pinus roxburghii</i> (LN: Sallo; HT: Tr; LU: Tm, Ful, Resin); <i>Bauhinia purpurea</i> (LN: Tanki; HT: Tr; LU: Fd).
Fish	<i>Clarias batrachus</i> (LN: Mungri; LU: Meat).
Herpetofauna	<i>Ranasp.</i> (LN: Bhyaguto; EN: Bullfrog).
Birds	<i>Streptopeliasp.</i> (LN: Dhukur; EN: Dove); <i>Dicrurus sp.</i> (LN: Chibe; EN: Drongo); <i>Passer domesticus</i> (LN: Bhangera; EN: House Sparrow) <i>Hirundo sp.</i> (LN: Gauthali; EN: Barn Swallow); <i>Dendrocittasp.</i> (LN: Lampuchhre; Treepie).

Mammals	<i>Lepus sp.</i> (LN: Kharayo; EN: Indian Hare).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Panchakanya Pokhari</i> ; 50 m from lake; Main Trail: Seduwa-Sukrabare–Panchakanya road; 50 m from trail to lake.
Land use	Shrubland (10%); Grassland (15%); Agriculture (50%); Settlement (20%); Wetlands (5%).
Demography	Population: 50; Male: 28; Female: 22; HHs: 10; Ethnicity: Brahmin/Chettri (80%); Janajati (20%); Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>100 no.
Traditional production system	Terrace farming.
Traditional water use practices	Ritual pond.
Cultural record	Rakta Devi and Panchkanya Devi temple.
Genesis/origin of lake	There was a natural lake earlier and later it dried up and local people restored for two times. After some years a small natural pond was formed near the man made pond; the Panchakanya Pokhari.

### D. Ecosystem Goods/Services

Provisional services	Domestic water supply; Commercial fishing; Timber; Fuelwood; Fodder/forages.
Cultural services	Religious; <i>Ranke</i> fair on <i>Shrawn 2<sup>nd</sup></i> .

### E. Restoration/Management

Structural management	None.
Non-structural management	Volunteer restriction for detrimental activities.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** None.

**G. Lake condition** Degrading.

## Annex-16: Inventory of lakes in Udayapur district

### 1. Belha Gavi

Code: P1-D14-001

Toposheet no: 2686 08 B

Date of inventory: May 21, 2013



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°43'44.00" N; <u>Lon</u> : 86°59'18.05" E; <u>Alt</u> : 95 masl.
Geographical position	Siwalik/Bhawar.
Administrative feature	EDR: Udayapur district; Tapeswori VDC; Ward No. 1, 2 (Currently: Belaka Municipality, Ward No. 2); <i>Belha</i>
Boundary	<u>Core Area</u> : Belha village in east; Agriculture land in west; Karahiya village in south; Belha village in north. <u>Basin Area</u> : Trijuga Nadi in west; Cultivation land in east; Bhagalpur-Karahiya-Palar trail in south; Bhalmanti-Bishariya trail in north.
Management responsibility	Tapeswori VDC.
Wetlands type	Fresh water/natural; Lacustrine; Permanent (Riverine).

#### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 40° C (May/June). <u>Avg. Min Temp</u> : 20° C (Jan). <u>Rainfall</u> : 1467 mm/yr (District Weather Record 2006).
Area	<u>Core Area</u> : 1.6 ha; Avg. Length: 500 m; Avg. Width: 50 m; <u>Avg. Depth</u> : 1.5 m; Max-MinSurface Water Level: 3-1 m; <u>Basin Area</u> : 28.2 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Khaderiya & Jagnathi river; Outlet: Local canal.
Water quality	<u>Physicochemical parameter</u> : Temp.: 20°C; pH: 6.9; Transparency: 0.2 m.
Soil feature	Grey and dark color; Clay loam texture.
Shocks/vulnerability	Eutrophication.
Major aquatic plants	<u>Core Area</u> : <i>Nelumbo nucifera</i> (LN: Kamal; HT: Ff; LU: Orn); <i>Nymphaea sp.</i> (LN: Kamal; HT: Ff; LU: Orn); <i>Eichhornia crassipes</i> (LN: Jalkhumbi; HT: Ff; LU: Fd for buffalo); <i>Polygonum hydropiper</i> (LN: Pire Jhar; HT: Em); <i>Alocasia macrorrhiza</i> (LN: Mane; HT: Em; LU: Food).
Major plants in basin	<i>Ficus bengalensis</i> (LN: Bar; HT: Tr; LU: Tm, Resin); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Rel); <i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: Tm, Fd); <i>Vitex negundo</i> (LN: Simali; HT: Sh; LU: Ful); <i>Bambusa</i> spp. (LN: Bans; HT: Hr; LU: Orn); <i>Mimosa pudica</i>



	(LN: Lajjawati Jhar; HT: Hr; LU: Fd); <i>Morus alba</i> (LN: Kimbu; HT: Tr; LU: Fd); <i>Albizia procera</i> (LN: Siris; HT: Tr; LU: Tm; Ful).
Fish	<i>Amphipnous cuchia</i> (LN: Hile Bam; LU: Meat); <i>Wallago attu</i> (LN: Buhari; LU: Meat); <i>Mystus seenghala</i> (LN: Tengri; LU: Meat); <i>Anguilla bengalaensis</i> (LN: Raj Bam; LU: Meat); <i>Clupisoma gaura</i> (LN: Jalkapoor; LU: Meat); <i>Silondia silondia</i> (LN: Bachawa; LU: Meat); <i>Clarias batrachus</i> (LN: Mungri; LU: Meat)
Herpetofauna	<i>Ahaetulla nasuta</i> (LN: Harahara Sarpa; EN: Common Green Whipsnake); <i>Ptyas mucosa</i> (LN: Dhaman Sarpa; EN: Rat snake); <i>Xenochrophis sp.</i> (LN: Dhoriya Sarpa; EN: Marshsnake); <i>Naja naja</i> (LN: Goman Sarpa; EN: Spectacled Cobra).
Birds	<i>Pycnonotussp.</i> (LN: Jureli; EN: Bulbul); <i>Gallus gallus</i> (LN: Luinche; EN: Jungle fowl); <i>Passer domesticus</i> (LN: Bhangera; EN: House Sparrow); <i>Caprimulgus asiaticus</i> (LN: Chaite Chara; EN: Indian nightjar); <i>Gallixrex cinerea</i> (LN: Jalkukhura; EN: Water cock); <i>Leptotilos dubius</i> (LN: Gadur; EN: Greater adjutant); <i>Gelochelidon nilotica</i> (LN: Fyalfyale; EN: Gull-billed tern).
Mammals	<i>Callosciurus pygerythrus</i> (LN: Lokharke; EN: Irrawaddy Squirrel); <i>Muntiacus muntjak</i> (LN: Ratuwa; EN: Barking Deer); <i>Herpestessp.</i> (LN: Nyauri; EN: Mongoose); <i>Canissp.</i> (LN: Syal; EN: Jackal); <i>Bubalus bubalis</i> (LN: Arna; EN: Wild water buffalo).
Invasive alien species	<u>Plants</u> : <i>Eupatorium sp.</i> (LN: Banmara; En: Throughwort); <i>Eichhornia sp.</i> (LN: Jalkumbhi; EN: Water Hyacinth); <i>Bidens spp</i> (LN: Kuro; EN: Cobbler's Peg). <u>Animals</u> : <i>Achatina fulica</i> (LN: Shankhe Kira; EN: Snail).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Belha</i> ; 100 m from lake; Main Trail: Kanchanpur-Phattempur-Tapeshwori; 5 Km from Phattempur to lake.
Land use	Shrubland (10%); Grassland (2%); Agriculture (69%); Settlement (12%); Wetlands (2%); Others (5%).
Demography	Population: 450; Male: 200; Female: 250; HHs: 80; Ethnicity: Brahmin/Chettri (32%); Janajati (10%); Dalit (25%); Others (Tharu 33%); Major Religion: Hinduism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>300
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Locally managed irrigation system.
Cultural record	None.
Genesis/origin of lake	Associate of the Koshi river.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock; Fishery; Irrigation.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
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None-structural management      None.  
Conservation plan                      None.  
Monitoring plan                          None.

**F. Tourism information**              No visitors; No tourism potentiall

**G. Lake condition**                      Degrading (Excess weeds).

## 2. Dahar Pokhari

Code: P1-D14-002

Toposheet no: 2786 15 D

Date of inventory: April 20, 2013



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°01'33.00" N; <u>Lon</u> : 86°38'01.0" E; <u>Alt</u> : 1900 masl.
Geographical position	Mahabharat Range.
Administrative feature	EDR; Udayapur district; Nametar VDC (Currently: Rautamai Rural Municipality, Ward No. 1); Dahare
Boundary	<u>Core Area</u> : School in west; Ground in east; Forest in south; Temple in north. <u>Basin Area</u> : Nigale-Gogunekhola trail in west; Dahare-tintale trail in east; Tintale-thamdada trail in south; Settlement of Dahare and dense mixed forest in north.
Management responsibility	<i>Janasakti Samudayik Samuha</i> .
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 40° C (May/June). <u>Avg. Min Temp</u> : 20° C (Jan). <u>Rainfall</u> : 1467 mm/yr (District Weather Record 2006).
Area	<u>Core Area</u> : 0.1 ha; Avg. Length: 80 m; Avg. Width: 80 m; Avg. Depth: 1 m; Max–MinSurface Water Level: 2-0.5 m. <u>Basin Area</u> : 8.5 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: Small gully.
Water quality	<u>Physicochemical parameter</u> : Temp.: 18° C; pH: 6.5; Transparency: 0.1 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	Poor water retention.
Major aquatic plants	<u>Core Area</u> : None.
Major plants in basin	<i>Ageratina adenophora</i> (LN: Banmara; HT: Hr; LU: None.); <i>Quercus semecarpifolia</i> (LN: Khasro; HT: Tr; LU: Tm, Ful); <i>Securrula sp.</i> (LN: Lise; HT: Tr; LU: Tm, Fd); <i>Castanopsis hystrix</i> (LN: Patle; HT: tr; LU; Ful); <i>Berberis sp.</i> (LN: Chuthro; HT; Sh; LU; Fd).
Fish	None.
Herpetofauna	<i>Calotes versicolor</i> (LN: Chheparo; EN: Common Garden Lizard); <i>Hoplobatrachus sp.</i> (LN: Bhyaguta; EN: Bullfrog).

Birds	<i>Pycnonotus sp.</i> (LN: Jureli; EN: Bulbul; Migratory); <i>Passer domesticus</i> (LN: Bhangera; EN: House Sparrow); <i>Streptopelia decaocto</i> (LN: Dhukur; EN: Collard Dove); <i>Motacillasp.</i> (LN: Tiktike; EN: Wagtail); <i>Corvus sp.</i> (LN: Kaag; EN: Crow).
Mammals	<i>Macaca assamensis</i> (LN: Badar; EN: Assamese monkey); <i>Muntiacus muntjak</i> (LN: Mirga; EN: Barking Deer); <i>Lepus sp.</i> (LN: Kharayo; EN: Indian Hare); <i>Canis aureus</i> (LN: Syal; EN: Jackal).
Invasive alien species	<i>Ageratina adenophora</i> (LN: Banmara; EN: Thoroughwort, Sticky Snakeroot).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Dahare</i> ; 500 m from lake; Main Trail: Katari-Bhuttar road; 5 Km from Bhuttar to lake.
Land use	Forestland (30%); Shrubland (35%); Grassland (20%); Agriculture (10%); Settlement (4.5%); Wetlands 0.5%).
Demography	Population: 126; Male: 51; Female: 75; HHs: 21; Ethnicity: Brahmin/Chettri (35%); Janajati (40%); Dalit (5%); Others 20%); Major Religion: Hinduism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>85 no.
Traditional production system	Traditional terrace farming.
Traditional water use practices	None.
Cultural record	Golmaraja Golmarani temple.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock; Fuelwood.
Cultural services	Local fair in <i>Mangsir Purnima</i> .

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

### 3. Rautamai Pokhari

Code: P1-D14-003

Toposheet no: 2686 03 B.

Date of inventory: April 20, 2013



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26°56'05.00" N; <u>Lon</u> : 86°42'02.00" E; <u>Alt</u> : 1,800 masl.
Geographical position	Mahabharat Range.
Administrative feature	EDR; Udayapur district; Aptar VDC; Ward No. 9 (Currently: Rautamai Rural Municipality, Ward No. 6); <i>Chisapani</i>
Boundary	<u>Core Area</u> : Cultivation land in west, east and north; Temple of Rautamai in north. <u>Basin Area</u> : Namanta-Rautamai road in west; Chisapani-Rautamai-Bange trail in west; Chaukibhnjyang-Rautamai trail in south; Namanta-Chisapani-Rautamai road road in north.
Management responsibility	<i>Rauta Dharmik Bikas Sanstha</i> .
Wetlands type	Fresh water/natural; Lacustrine; Seasonal.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp</u> : 40° C (May/June). <u>Avg. Min</u> : 20° C (Jan). <u>Rainfall</u> : 1467 mm/yr (District Weather Record 2006).
Area	<u>Core Area</u> : 0.5 ha; Avg. Length: 110 m; Avg. Width: 90 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 2.5– 0.5 m; <u>Basin Area</u> : 9.1 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: Adhare Khola; Outlet: Drainage.
Water quality	<u>Physicochemical parameter</u> : Temp.: 18° C; pH: Slightly acidic; Transparency: 0.2 m.
Soil feature	Grey and dark color; Clay loam texture.
Shocks/vulnerability	Exposed to eutrophication.
Major aquatic plants	<u>Core Area</u> : <i>Cyperus rotundus</i> (LN: Mothe; HT: Em; LU: Forage); <i>Imperata cylindrica</i> (LN: Siru; HT: Em; LU: Forage.); <i>Agapetes sp.</i> (LN: Khursane; HT: Hr; LU: grass).
Major plants in basin	<i>Bidens pilosa</i> (LN: Kuro; HT: Hr; LU: None.); <i>Oxalis corniculata</i> (LN: Chari Amilo; HT: Hr; LU: Med); <i>Allium sp.</i> (LN: Hade Lasun; HT: hr; LU: Forage); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Fd); <i>Rhododendron arboreum</i> (LN: Laligurans; HT: Sh; LU: Ful, Tm).
Fish	None.

Herpetofauna	<i>Calotes versicolor</i> (LN: Chheparo; EN: Common Garden Lizard); <i>Hoplobatrachus tigrinus</i> (LN: Bhyaguta; EN: Bullfrog).
Birds	<i>Pycnonotus</i> sp. (LN: Jureli; EN: Bulbul; Migratory); <i>Passer domesticus</i> (LN: Bhangera; EN: House Sparrow); <i>Anas</i> sp. (LN: Pani Haans; EN: Duck); <i>Casmerodius albus</i> (LN: Bakulla; EN: Grey Heron); <i>Corvus</i> sp. (LN: Kaag; EN: Crow) <i>Streptopelia</i> sp. (LN: Dhukur; EN: Dove).
Mammals	<i>Naemorhedus goral</i> (LN: Ghoral; EN: Himalayan Ghoral); <i>Muntiacus muntjack</i> (LN: Ratuwa; EN: Barking Deer); <i>Lepus</i> sp. (LN: Kharayo; EN: Indian Hare); <i>Canis aureus</i> (LN: Syal; EN: Jackal) <i>Ursus thibetanus</i> (LN: Kaalo Bhalu; EN: Asian Black Bear); <i>Hystrix</i> sp. (LN: Dumsi; EN: Porcupine).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Rauta Bazar</i> ; 100 m from lake; Main Trail: Gaight-Salle road.
Land use	Forestland (50%); Shrubland (10%); Grassland (10%); Agriculture (10%); Settlement (10%); Wetlands (5%); Others (5%);
Demography	Population: 250; Male: 120; Female: 130; HHs:50; Ethnicity: Brahmin/Chettri (35%); Janajati (45%); Dalit (15%); Others (5%); Major Religion: Hinduism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>460 no.
Traditional production system	Terrace farming.
Traditional water use practices	Farmer managed local canal.
Cultural record	Temple.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Water for wildlife and livestock.
Cultural services	Excursion site; Recreational; Local fair in <i>Maghesankranti</i> .

### D. Restoration/Management

Structural management	Dams.
None-structural management	Informal restriction.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** >1000 annual visitors; Locally operated tea shops (3); Low tourism potential.

**G. Lake condition** Degrading.

#### 4. Taple Pokhari

Code: P1-D14-004

Toposheet no:2786 15 C

Date of inventory: April 22, 2013



##### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 27°01'46.00" N; <u>Lon</u> : 86°33'31.00" E; <u>Alt</u> : 1,900 masl.
Geographical position	Mahabharat Range.
Administrative feature	EDR; Udayapur district; Lekh gaun VDC; Ward No. 3 (Currently: Tapli Rural Municipality, Ward No. 2); <i>Taple</i>
Boundary	<u>Core Area</u> : Ground in west and south; Panchakanya temple in east; Agriculture land in north. <u>Basin Area</u> : Kalimati-Gairigaun trail in west; Taple village in east, west and north; Gairigaun-Taple train in south.
Management Responsibility	<i>Taple Lekh Parya Tankiya Kshetra Bikas Samiti.</i>
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

##### B. Ecological Feature

Climatic feature	<u>Avg. MaxTemp</u> : 40° C (May/June); <u>Avg. Min Temp</u> : 20° C (Jan). <u>Rainfall</u> : 1467 mm/yr (District Weather Record 2006).
Area	<u>Core Area</u> : 0.6 ha; Avg. Length: 200 m; Avg. Width: 40 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 3-1 m; <u>Basin Area</u> : 9.7 ha.
Water Volume	Peak Period: NA; Dry period: NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 18° C; pH: Neutral; Transparency: 0.2 m.
Soil feature	Grey and dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : None.
Major plants in basin	<i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm); <i>Juniperus</i> sp (LN: Dhupi; HT: Tr; LU: Tm, Ful); <i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Tm, Fd); <i>Euodia fraxinifolia</i> (LN: Kanukpa; HT: Tr); <i>Pinus roxburghii</i> (LN: Sallo; HT: Tr; LU: Resin); <i>Erythrina indica</i> (LN: Faledo; HT: Sr; LU: Tm).
Fish	None.
Herpetofauna	<i>Calotes versicolor</i> (LN: Chheparo; EN: Common Garden Lizard); <i>Hoplobatrachus tigerinus</i> (LN: Bhyaguta; EN: Bullfrog); <i>Lycodon</i> sp. (LN: Bwanse Sarpa; EN: Wolf Snake).
Birds	<i>Pycnonotus</i> sp (LN: Jureli; EN: Bulbul); <i>Passer domesticus</i> (LN: Bhangera; EN: House Sparrow); <i>Anassp.</i> (LN: Pani Haans; EN:

	Duck); <i>Casmerodius albus</i> (LN: Bakulla; EN: Grey Heron); <i>Corvus sp.</i> (LN: Kaag; EN: Crow).
Mammals	<i>Naemorhedus goral</i> (LN: Ghoral; EN: Himalayan Ghoral); <i>Muntiacus muntjak</i> (LN: Mirga/Ratuwa; EN: Barking Deer); <i>Lepus sp.</i> (LN: Kharayo; EN: Indian Hare); <i>Canis aureus</i> (LN: Syal; EN: Jackal).
Invasive alien species	<i>Ageratina adenophora</i> (LN: Banmara; EN: Thoroughwort; Sticky Snakeroot).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Taple Bazar</i> ; 5 m from lake; Main Trail: Katari-Jhilke Pokhari road.
Land use	Forestland (40%); Shrubland (20%); Grassland (30%); Agriculture (5%); Settlement (3%); Wetlands (2%).
Demography	Population: 175; Male: 75; Female: 100; HHs: 35; Ethnicity: Brahmin/Chettri (30%); Janajati (60%); Dalit (10%); Others (0%); Major Religion: Hinduism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>300 no.
Traditional production system	None.
Traditional water use practices	Well and Kuwa (2).
Cultural record	Devi Ko Than(Temple).
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	None.
Cultural services	Excursion site; Local fair in <i>Teez</i> and New year.

### E. Restoration/Management

Structural management	Afforestation.
None-structural management	Informal restriction.
Conservation plan	Available.
Monitoring plan	None.

### F. Tourism information

>100,00 annual visitors; Locally operated hotel-1; Moderate tourism potential; Needs improvement in infrastructure and human resource development and promotional activities.

### G. Lake condition

Good.



## Annex-17: Inventory of lakes in Bara district

### 1. Gadiganga Taal

Code: P2-D1-001

Toposheet no: 2685 01B

Date of inventory: April 27, 2012

Compiler's name: Anju Rana,  
Jeevan Chhetri, Saroj Pokharel



#### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°59'33.2"N; <u>Lon.</u> : 85°02'57.1" E; <u>Alt.</u> : 87amsl.
Geographical position	Terai
Administrative feature	CDR; Bara district; Badiyarpur VDC; 9 wards; Gadimai. (Currently: Magagadimai Municipality; Ward no:1)
Boundary	<u>Core Area</u> : Cultivated land in east and west; Road in south and Gadimai temple in North <u>Basin Area</u> : Cultivated land in east; Road in west; cultivated land in south; Gadimai village in north.
Management Responsibility	Community
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 31.3 (Jun/Jul). <u>Avg. Min.</u> : - 18°C (Dec) <u>Rainfall average</u> : 1760mm and <u>Humidity</u> : Max avg: 93%; Min avg: 52%
Physical feature	
Area	<u>Core Area</u> : 1.67 ha; <u>Avg. Length</u> : 150 m; <u>Avg. Width</u> : 125m; <u>Avg. Depth</u> : 1.8 m; <u>Max-Min Surface Water Level</u> : 1.5 - 2 m;

#### C. Hydrological features

Water Volume	Peak Period: 25050 m <sup>3</sup> ; Dry period: 33400m <sup>3</sup> ; Inlet: None
Water quality	<u>Physicochemical parameter</u> : Temp.: 30 °C; pH: No change Soil feature Grey color, clay texture.
Shocks/vulnerability	None
Biological feature	
Major aquatic plants	<u>Phytoplankton</u> : None <u>Zooplankton</u> : None
Core Area: None	

Major plants in basin	Saraca asoca (LN: Ashoka; HT: Tr; LU: None); Mangifera indica (LN: Aap; HT: Tr; LU: Food); Eugenia jambola (LN: Jamun; HT: Tr; LU: Med, Tm); Ficus religiosa (LN: Peepal; HT: Tr; Lu: Rel); Ficus bengelensis (LN: Bar; HT: Tr; LU: Rel); Bambusa Vulgaris (Ht: Tr, LU: Tm); Dalbergia sissau (LN: Sissau; HT: Tr;
LU:	Tim);
Fish	Labio rohita (LN: Rohu; LU: recreation only); Hypophthalmic molitrix (LN: Silver; LU: recreation only); ... (LN: Israil; LU: recreation only); ... (LN: Bigred; LU: recreation only). All species introduced.
Herpetofauna (Tortoise)	<i>Bufo himalayanus</i> (Frog);(Snake);
Birds	<i>Corvus brachyrhynchos</i> (LN: crow; ON: 7; Migratory); Columbidae colomiformes (Pegion, ON: 3)
Mammals	None
Invasive alien species	None
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : None <u>Basin Area</u> : <i>Saraca asoca</i> (35%); <i>Mangifera indica</i> (20%); <i>Eufenia jambola</i> (10%); <i>Euodia fraxinifolia</i> (5%); <i>Ficus bengelensis</i> (1%); <i>Ficus bengelensis</i> (2%); <i>Bambusa vulgaris</i> (1%); <i>Dalbergia sissau</i> (5%).

#### D. Socio-Economy at Basin

Nearby settlement	Bariyarpur Maleni; 1 km from lake; Main trail: Bariyarpur-Kalaiya road.
Land use	Shrub land (5%); Agriculture (30%); Settlement (5%); Wetlands (60%).
Demography	Population: 1074; Male: 560; Female: 514; HHs: 157; <i>Brahmin/Chettri</i> (4.4%); <i>Janajati</i> (20%); <i>Dalit</i> (44%); <i>Others</i> (24.8%); Major Religion: Hindu; Major Dialect: Bhojpuri.
Education	Primary level (80%); School level certificate (+2) (15%); University level (5%).
Occupation	Agriculture (75%); Trade/Business (5%); wage and labor (20%)
Jurisdiction/ownership	Trust.
Wetlands dependent community	None.
Livestock at basin	About 300 goats (2/HH), and 50-60 Buffalos
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	NA.

#### E. Ecosystem Goods/Services

Provisional services

Drinking water for wildlife and livestock.

Cultural services

Tourism spot; excursion site; local fair (hat-bazar) every 5 yrs.

### **F. Restoration/Management**

Structural management

None.

Non-structural management

None.

Conservation plan

None.

Monitoring plan

None.

### **G. Tourism information**

Average 600 tourist per day; locally operated hotel -10; Needs improvement in infrastructure and human resource for lodging as well.

### **H. Lake condition**

Degrading.

## 2. Halkhoria Lake

Code: P2-D1-002

Toposheet no: 2785 13 A

Date of inventory: May 28 2013

Compiler's name: Anju Rana, Jeevan Chhetri,  
Saroj Pokheral, Pabitra Basnet

### A. General Feature

Conservation status	Religious site
Geographical coordination	<u>Lat.</u> : 27°12'N; <u>Lon.</u> : 85°04' E; <u>Alt.</u> : 164 amsl.
Geographical position	Terai
Administrative feature	CDR; Bara district; Dubarrana VDC; Halkhoria (Currently: Nijgadh Municipality; Ward no:4)
Boundary	<u>Core Area</u> : Forest in all sides <u>Basin Area</u> : Forest in all sides
Management Responsibility	Government (Panchayat)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 31.3 (Jun/Jul). <u>Avg. Min.</u> : - 18°C (Dec) Rainfall average: 1760mm and Humidity: Max avg: 93%; Min avg: 52%
Physical feature	
Area	<u>Core Area</u> : 33.5ha; Avg depth: 1.2 m

### C. Hydrological feature

Water Volume	Peak Period: 670000m <sup>3</sup> ; Dry period: 335000m <sup>3</sup> ; Inlet: None
Water quality	<u>Physicochemical parameter</u> : Temp.: 39 °C; pH: No change Soil feature: Grey color; Clay
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : None <u>Zooplankton</u> : None <u>Core Area</u> : Eichhornis crassipes (LN: Jalkumbhi; HT: Ff; LU: None) Major plants in basin:
<i>Mangifera</i>	<i>Indica</i> (LN: Mango; HT: Tr; LU: Food); <i>Shorea Robusta</i> (LN: Sal; HT: Tr; LU: Tm); <i>Dalbergia sissau</i> (LN: sissou; HT: Tr; LU: Tm)
Fish	<i>Labio rohita</i> (LN: Rohu; LU: meat); <i>Hypophthalmic molitrix</i> (LN:

Silver; LU: meat); ... (LN: Israil; LU: meat); ... (LN: Bigred; LU: Meat); *Ctenoharyngodon idella* (LN: Grass carp; LU: meat); (LN: Chhadi; LU: meat), (LN: Naini; EN: Farmed carp; LU: Meat).

Herpetofauna	<i>Bufo himalayanus</i> (Frog); <i>Naja naja</i> (LN: Goman; LU: None); Snake (LN: Dudh, Dhungre, hariyar Damin; LU: none).
Birds	<i>Casmerodius albus</i> (LN: Bakulla; LU: None); <i>Grus grus</i> (LN: Crane; LU: None); (LN: Garud; LU: None); (LN: waterfowl; LU: None).
Mammals	<i>Bubulus sp.</i> (LN: Buffalo; LU: Domestication); <i>Capra argagrus</i> (LN: Goat; LU: Domestication).
Invertebrates	None
Invasive alien species	Eichhornia sp. (15%)
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None.
Abundance of plants	<u>Core Area</u> : Eichhornis crassipes (15%); <u>Basin Area</u> : <i>Mangifera indica</i> (15%); <i>Shorea robusta</i> (20%); <i>Dalbergia sissau</i> (5%)

### E. Socio-Economy at Basin

Nearby settlement	Halkhoria village; 5 km from lake; Main trail: Halkhoria road.
Land use	Forest land (40%); Shrub land (20%); Grass land (10%); Lake-(30%).
Demography	No settlement.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	Meditation area of Bamjan yogi.
Genesis/origin of lake	NA.

### F. Ecosystem Goods/Services

Provisional services	Drinking water, Fish supply, Fodder and grazing for livestock.
Cultural services	Presence of the temple and the meditation site of Gautam Buddha enhance the cultural services.

### G. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### H. Tourism information

None.

### I. Lake condition

Degrading.

### 3. Ishara Pokhari

Code: P2-D1-003

Toposheet no: 2785 01B

Date of inventory: May 26 2013

Compiler's name: Anju Rana,  
Jeevan Chhetri, Saroj Pokhrel,  
Pabitra Basnet



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26°53'16.1"N; <u>Lon.</u> : 85°07'56.3" E; <u>Alt.</u> : 70 amsl.
Geographical position	Terai.
Administrative feature	CDR; Bara district; Golaganj VDC; Ward no: 9; Simraungadh. (Currently: Simraungadh Municipality; Ward no:4)
Boundary	<u>Core Area</u> : Golaganj village in east and west and agricultural land in south and north. <u>Basin Area</u> : Agriculture in East, North and south and settlement in West.
Management Responsibility	Community (Guthi).
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 31.3 (Jun/Jul). <u>Avg. Min.</u> : - 18°C (Dec). Rainfall average:1760mm and Humidity: Max avg:93%; Min avg: 52%.
Physical feature	
Area	<u>Core Area</u> : 2 ha; Avg. Length: 350 m; Avg. Width: 300m; Avg. Depth: 6.1 m; Max-Min Surface Water Level: 5–7m;

#### C. Hydrological feature

Water Volume	Peak Period: 140000m <sup>3</sup> ; Dry period: 10000m <sup>3</sup> ; Inlet: None
Water quality	<u>Physicochemical parameter</u> : Temp.: 30 °C; pH: No change
Soil feature:	Grey color
Shocks/vulnerability	None

#### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : None <u>Zooplankton</u> : None <u>Core Area</u> : <i>Eichornia crassipes</i> (LN: Jalkumbhi; Ht: Ff; LU: None); <i>Alternanthera</i> (HT: Em; LU: None); <i>Cynodon dactylon</i> (LN: Dubo; HT: Em; LU: None)
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Major plants in basin	<i>Alternanthera</i> (HT: Sh; LU: None); <i>Mangifera indica</i> (LN: Magol; HT: Tr; Lu: Food); <i>Ageratum sp.</i> (HT: Sh; LU: None); <i>Eucalyptus sp.</i> (HT: Tr; LU: Tim); <i>Eugenia jambola</i> (LN: Jamun; HT: Tr; LU: None)
Fish	<i>Labio rohita</i> (LN: Rohu; LU: meat); Hypophthalmic molitrix (LN: Silver; LU: meat); ... (LN: Bigred; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: meat)
Herpetofauna	<i>Bufo himalayanus</i> (Frog); Snake (LN: Dudh, Dhungre, hariyar, Damin, Goman; LU: none);
Birds	<i>Casmerodius albus</i> (LN: Bakulla; LU: None); <i>Grus grus</i> (LN: Crane; ON 2; LU: None); (LN: Garud; LU: None) ;(LN: Gairi; LU: None); (LN: Pandubi; LU: None) <i>Corvus brachyrhynchos</i> (LN: crow; ON: 5; Migratory); <i>Columbidae colombiformes</i> (Pegion, ON: 1) ;(LN: Duck; LU: Meat)
Mammals	<i>Equus caballus</i> (LN: horse; ON:1; LU: Domestication for crrying loads); <i>Capra argagrus</i> (LN: Goat; ON:5; LU: Domestication for meat)
Invertebrates	None
Invasive alien species	None
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : <i>Ageratum sp.</i> (1%); <i>Bidens pilosa</i> (1%); <i>Eichhornia crassipes</i> (2%); <i>Alternanthera</i> (2%); <u>Basin Area</u> : <i>Saraca asoca</i> (LN: Ashoka; HT: Tr; LU: None); <i>Mangifera indica</i> (LN: Aap; HT: Tr; LU: Food); <i>Ficus religiosa</i> (2%); <i>Khajur</i> (1%); <i>Eugenia jambola</i> (1%); <i>Alternanthera sp.</i> (2%); <i>Sapeta</i> (2%)

## E. Socio-Economy at Basin

Nearby settlement	Golaganj village; 100m from lake; Main trail: Kalaiya-Simraungadh road
Land use	Forest land-30%; Grass land-10%; Settlement-10%; Lake-50%
Demography	Population: 426; Male:221; Female: 205; HHs: 53; (District profile 2060) <i>Brahmin/Chettri</i> (1%); <i>Janajati</i> (14%); <i>Dalit</i> (6.1%); <i>Others</i> (3.3%); MAJOR Religion: Hindu; Major Dialect: Bhojpuri). Avg land hold size:0.39 ha/HH
Education	Primary level (90%); School level certificate (+2) (5%); University level (5%).
Occupation	Agriculture (90%); Trade and business (10%)
Jurisdiction/ownership	State
Wetlands dependent community	Majhi (Malahar) community (HH:25; Distance to site:100m; Literacy:20-30%; Annual income:80000/HH)
Livestock at basin	<i>Bos Taurus</i> (LN: Cow; LU: Domestication; No:20); (LN: Buffalo; No:50; LU: Domestication); <i>Capra argagrus</i> LN: Goat; No: about 50; Avg:2/HH; LU: Domestication)
Traditional production system	None
Traditional water use practices	None

Cultural record                                      Burnt rice grains are found in the area  
Genesis/origin of lake                              NA

**F. Ecosystem Goods/Services**

Provisional services                                Fish supply and domestic (Washing)  
Cultural services                                    Festival at Chaath, Chaitnami, Dashain, Shivaratri, and  
Deepawali.

**G. Restoration/Management**

Structural management                            None  
Non-structural management                      None  
Conservation plan                                 None  
Monitoring plan                                    None.

**H. Tourism information**                        50-60 per year (No infrastructure facilities)

**I. Lake condition**                                Degrading.



#### 4. *Jharkhuria Lake*

Code: P2-D1-004

Toposheet no: Not found

Date of inventory: May 26 2013

Compiler's name: Anju Rana,  
Jeevan Chhetri, Saroj Pokhrel,  
Pabitra Basnet



##### **A. General Feature**

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°52'16.5"N; <u>Lon.</u> : 85°09'35.2" E; <u>Alt.</u> : 68 amsl.
Geographical position	Terai
Administrative feature	CDR; Bara district; Jharaukhar VDC; ward no 9; Basariya (Currently: Simraungadh Municipality; Ward no:9)
Boundary	<u>Core Area</u> : Forest in east and west and Agricultural land in North and south; <u>Basin Area</u> : Forest in east and north and agriculture in west and south
Management Responsibility	Government (Panchayat)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

##### **B. Ecological Feature**

Climatic feature	<u>Avg. Max Temp.</u> : 31.3 (Jun/Jul). <u>Avg. Min.</u> : - 18°C (Dec). Rainfall average:1760mm and Humidity: Max avg:93%; Min avg:52%
Physical feature	
Area	<u>Core Area</u> : 5ha; Avg. Length: 350 m; Avg. Width: 300m; Avg. Depth: 5 m; Max-Min Surface Water Level: 4.5–6m;

##### **C. Hydrological feature**

Water Volume	Peak Period: 300000m <sup>3</sup> ; Dry period: 225000m <sup>3</sup> ; Inlet: None
Water quality	<u>Physicochemical parameter</u> : Temp.: 39 °C; pH: No change Soil feature: Grey color; Clay
Shocks/vulnerability	None

##### **D. Biological feature**

Major aquatic plants	<u>Phytoplankton</u> : None <u>Zooplankton</u> <u>Core Area</u> : Alternanthera (HT: Em; LU: None); Eichhornia crassipes (LN: Jalkumbhi; HT: Ff; LU: None) Major plants in basin: <i>Mangifera indica</i> (LN: Mango; HT: Tr; LU: Food); <i>Cynodon dactylon</i> (LN: Dubo (HT: Em; LU: None)
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	<i>jambola</i> (LN: Jamun; HT: Tr: LU: None)
Fish	<i>Labio rohita</i> (LN: Rohu; LU: meat); <i>Hypophthalmic Molitrix</i> (LN: Silver; LU: meat); ... (LN: Israil; LU: meat); ... (LN: Bigred; LU: Meat); <i>Ctenoharyngodon idella</i> (LN: Grass carp; LU: meat)
Herpetofauna	<i>Bufo himalayanus</i> (Frog); Snake (LN: Dudh, Dhungre, hariya, Damin, Goman; LU: none);
Birds	<i>Casmerodius albus</i> (LN: Bakulla; LU: None) ;(LN: Crane; LU: None) ;(LN: Garud; LU: None)
Mammals	None
Invertebrates	None
Invasive alien species	Eichhornia sp. (15%)
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : Alternanthera (5%); Eichhornis crassipes (5%) <u>Basin Area</u> : <i>Mangifera indica</i> (50%); <i>Eugenia jambola</i> (20%); <i>Cynodon dactylon</i> (5%); <i>Alternanthera</i> (2%)
Biomass in core area	None

### **E. Socio-Economy at Basin**

Nearby settlement	Jharaukhar village; 150 km from lake; Main trail: Jharaukhar road
Land use	Forest land-30%; Shrub land-5%; Grass land-10%; Agriculture -5%; Lake-50%
Demography	No settlement
Education	None
Occupation	None
Jurisdiction/ownership	State (VDC)
Wetlands dependent community	Majhi community;250 HH; Distance:1-2 km; literacy -20%; Annual income:219000per year
Livestock at basin	No settlement so no livestock
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	NA

### **F. Ecosystem Goods/Services**

Provisional services	Irrigating water supply, somestic, and fish supply
Cultural services	Chhat

### **G. Restoration/Management**

Structural management	None
Non-structural management	informal and formal rules
Conservation plan	None
Monitoring plan	None.

**H. Tourism information**                      None

**I. Lake condition**                              Degrading.

## 5. Kamini Daha

Code: P2-D1-005

Toposheet no: Not available

Date of inventory: May 29, 2013

Compiler's name: Anju Rana,  
Jeevan Chhetri, Saroj Pokhrel,  
Pabitra Basnet



### A. General Feature

Conservation status

Protected area

Geographical coordination

Lat.: 27°17'27.9"N; Lon.: 84°57'48.1" E; Alt.: 328 amsl.

Geographical position

Terai

Administrative feature

CDR; Bara district; Amlekhganj VDC; Parsa wildlife reserve  
(Currently: Jitpur – Simara sub metropolitan City; Ward no:9)

Boundary

Core Area: Forest in east, west, north and south

Basin Area: Forest in east, west, North and South

Management Responsibility

Government PWR

Wetlands type

Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max Temp.: 31.3 (Jun/Jul). Avg. Min.: - 18°C (Dec).  
Rainfall average:1760mm and Humidity: Max avg:93%; Min  
avg:52%

Physical feature

Area

Core Area: 1.5 ha; Avg. Length: 75 m; Avg. Width: 50m; Avg.  
Depth: 0.91 m; Max-Min Surface Water Level: 0.9–2m;

### C. Hydrological feature

Water Volume

Peak Period: 30000m<sup>3</sup>; Dry period: 13500m<sup>3</sup>; Inlet: None

Water quality

Physicochemical parameter: Temp.: 29 °C; pH: No change  
Soil feature: Grey color

Shocks/vulnerability

None

### D. Biological feature

Major aquatic plants

Phytoplankton: None Zooplankton: None  
Core Area: Algae (HT: Sm; LU: None) ;(LN: Pire  
ghas; HT: Em; LU: None) Major plants in basin: *Ageratum  
houstonianum* (LN: *Gande jhar*; HT: Sh; LU: None); *Artimisia  
vulgaris* (LN: Titepati; HT: Herb;LU: Medicine)

Fish

None

## 5. Kamini Daha

Code: P2-D1-005

Toposheet no: Not available

Date of inventory: May 29, 2013

Compiler's name: Anju Rana,  
Jeevan Chhetri, Saroj Pokhrel,  
Pabitra Basnet



### A. General Feature

Conservation status

Protected area

Geographical coordination

Lat.: 27°17'27.9"N; Lon.: 84°57'48.1" E; Alt.: 328 amsl.

Geographical position

Terai

Administrative feature

CDR; Bara district; Amlekhganj VDC; Parsa wildlife reserve  
(Currently: Jitpur – Simara sub metropolitan City; Ward no:9)

Boundary

Core Area: Forest in east, west, north and south

Basin Area: Forest in east, west, North and South

Management Responsibility

Government PWR

Wetlands type

Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max Temp.: 31.3 (Jun/Jul). Avg. Min.: - 18°C (Dec).  
Rainfall average:1760mm and Humidity: Max avg:93%; Min  
avg:52%

Physical feature

Area

Core Area: 1.5 ha; Avg. Length: 75 m; Avg. Width: 50m; Avg.  
Depth: 0.91 m; Max-Min Surface Water Level: 0.9–2m;

### C. Hydrological feature

Water Volume

Peak Period: 30000m<sup>3</sup>; Dry period: 13500m<sup>3</sup>; Inlet: None

Water quality

Physicochemical parameter: Temp.: 29 °C; pH: No change  
Soil feature: Grey color

Shocks/vulnerability

None

### D. Biological feature

Major aquatic plants

Phytoplankton: None Zooplankton: None  
Core Area: Algae (HT: Sm; LU: None) ;(LN: Pire  
ghas; HT: Em; LU: None) Major plants in basin: *Ageratum  
houstonianum* (LN: *Gande jhar*; HT: Sh; LU: None); *Artimisia  
vulgaris* (LN: Titepati; HT: Herb;LU: Medicine)

Fish

None

## 6. Ramjanaki Pokhari

Code: P2-D1-006

Toposheet no: 2785 136

Date of inventory: May 27 2013

Compiler's name: Jeevan Chhetri,

Saroj Pokhrel, Anju Rana



### A. General Feature

Conservation status

None

Geographical coordination

Lat.: 27°02'3.9"N; Lon.: 85°00'5.7" E; Alt.: 91amsl.

Geographical position

Terai

Administrative feature

CDR; Bara district; Kalaiya Municipality; 6 wards; Ramjanaki temple

(Currently: Jitpur – Simara sub metropolitan City; Ward no:9)

Boundary

Core Area: Road in east and south; Temple in west; Gabbion wall in North

Basin Area: Settlement in east; Agricultural land in west; settlement in south; Settlement in north.

Management Responsibility

Community (Temple management committee)

Wetlands type

Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max Temp.: 31.3 (Jun/Jul). Avg. Min.: - 18°C (Dec).  
Rainfall average:1760mm and Humidity: Max avg:93%; Min avg:52%

Physical feature

Area

Core Area: 1.6 ha; Avg. Length: 150 m; Avg. Width: 120m;  
Avg. Depth: 1.5 m; Max-Min Surface Water Level: 1 - 2 m;

### C. Hydrological feature

Water Volume

Peak Period: 32000m<sup>3</sup>; Dry period: 16000m<sup>3</sup>; Inlet: None  
(Lake is sometimes filled by pouring the water)

Water quality

Physicochemical parameter: Temp.: 28 °C; pH: No change  
Soil feature Grey color, sandy loam

Shocks/vulnerability

None

### D. Biological feature

Major aquatic plants

Phytoplankton: None Zooplankton: None

Core Area: None

Major plants in basin

*Rumex obtusifolius* (HT: Sh; LU: None); *Ficus relifiosa*

Fish	(LN: Peepal; HT: Tr; Lu: Rel); <i>Ficus bengelensis</i> (LN: Bar; HT: Tr; LU: Rel); <i>Saraca asoca</i> (Ht: Tr); <i>Dalbergia Sissau</i> (LN: Sissau; HT: Tr; LU: Tim); <i>Labio rohita</i> (LN: Rohu; LU: meat); <i>Hypophthalmic molitrix</i> (LN: Silver; LU: meat); ... (LN: Israil; LU: meat); ... (LN: Bigred; LU: Meat); <i>Ctenoharyngodon idella</i> (LN: Grass carp; LU: meat). All species introduced.
Herpetofauna	<i>Bufo himalayanus</i> (Frog); (Snake)
Birds	<i>Corvus brachyrhynchos</i> (LN: crow; ON: 10; Migratory); <i>Columbidae colombiformes</i> (Pegion, ON: 2)
Mammals	(Crocodile, ON 1) Introduced
Invertebrates (dragonfly, ON 15-18)	
Invasive alien species	None
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : None <u>Basin Area</u> : <i>Rumex obtusifolius</i> (25%); <i>Saraca asoca</i> (15%); <i>Mirchayya</i> (20%); <i>Ficus bengelensis</i> (10%); <i>Dalbergia sissau</i> (10%).

### E. Socio-Economy at Basin

Nearby settlement	Bharatchowk; 200m from lake; Main trail: Kalaiya-Ramjanaki subway
Land use	Agriculture (10%); Settlement (50%); Wetlands (25%); Others 10%.
Demography	Population: 3583; Male: 1891; Female: 1692; HHs: 568; (District profile) <i>Brahmin/Chettri</i> (10%); <i>Janajati</i> (20%); <i>Dalit</i> (50%); <i>Others</i> (20%); MAJOR Religion: Hindu; Major Dialect: Bhojpuri).
Education	Primary level (80%); School level certificate (+2) (10%); University level (10%).
Occupation	Agriculture (40%); Employment (10%); Trade/Business (10%); wage and labor (15%)
Jurisdiction/ownership	Trust
Wetlands dependent community	None.
Livestock at basin	Goats: about 1000(2/HH); Buffalo: About 50
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	NA

### F. Ecosystem Goods/Services

Provisional services	Drinking water for livestock.
Cultural services	Presence of Ramjanaki Temple and Festival at Chhat.

### **G. Restoration/Management**

Structural management	None
Non-structural management	None
Conservation plan	None
Monitoring plan	None.

### **H. Tourism information**

Average 600 tourist per day; locally operated hotel -10; Needs improvement in infrastructure and human resource for lodging as well.

### **I. Lake condition**

Degrading.



## 7. Sohiri Lake

Code: P2-D1-007

Toposheet no: 2784 16D

Date of inventory: May 24 2013

Compiler's name: Anju Rana, Jeevan Chhetri, Saroj Pokhrel, Pabitra Basnet



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 27°04'11.4"N; <u>Lon.</u> : 85°00'13.5" E; <u>Alt.</u> : 103 amsl.
Geographical position	Terai
Administrative feature	CDR; Bara district; Banjariya VDC; Surahi (Currently: Kalaiya Municipality; Ward no:19)
Boundary	<u>Core Area</u> : Banjariya village in east and west; road in south and cultivated land in North. <u>Basin Area</u> : Agricultural land on all sides
Management Responsibility	Government (Panchayat)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 31.3 (Jun/Jul). <u>Avg. Min.</u> : - 18°C (Dec). Rainfall average:1760mm and Humidity: Max avg:93%; Min avg:52%
Physical feature	
Area	<u>Core Area</u> : 2.5 ha; Avg. Length: 300 m; Avg. Width: 250m; Avg. Depth: 2.4 m; Max-Min Surface Water Level: 2-3m;

### C. Hydrological feature

Water Volume	Peak Period: 50000m <sup>3</sup> ; Dry period: 75000m <sup>3</sup> ; Inlet: None
Water quality	<u>Physicochemical parameter</u> : Temp.: 31 °C; pH: No change Soil feature: Grey color, Clay
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : None <u>Zooplankton</u> : None Core Area: None
Major plants in basin HT:	<i>Parthenium</i> (HT: Sh; LU: None); <i>Ficus religiopsa</i> (LN: Peepal; Tr; Lu: Rel); <i>Ageratum sp.</i> (HT: Sh; LU: None) <i>Dalbergia Sissau</i> (LN: Sissau; HT: Tr; LU: Tim); <i>Eugenia jambola</i> (LN: Jamun; HT: Tr; LU: None)

Fish	<i>Labio rohita</i> (LN: Rohu; LU: meat); <i>Hypophthalmic Molitrix</i> (LN: Silver; LU: meat); ... (LN: Israil; LU: meat) ;(LN: Bigred; LU: Meat); <i>Ctenoharyngodon idella</i> (LN: Grass carp LU: meat); <i>Neolissochilus hexagonolepis</i>
Herpetofauna	<i>Bufo himalayanus</i> (Frog); Snake (LN: Dudh; LU: none)
Birds	<i>Casmerodius albus</i> (LN: Bakulla; LU: None); <i>Grus grus</i> (LN: Crane, LU: None). (LN: Garud; LU: None) (LN: Gairi; LU: None). (LN: Pandubi; LU: None)
Mammals	<i>Bos Taurus</i> (LN: Cow; LU: Domestic for milk), (LN: Buffalo; LU: Domestic for milk); <i>Capra argagrus</i> (LN: Goat; LU: Domestic for meat)
Invertebrates (LN: Snail; LU: None) ;(LN: Juka; LU: None)	
Invasive alien species	None
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : None; <u>Basin Area</u> : <i>Parthenium sp.</i> (5%); <i>Ficus religiosa</i> (2%); <i>Dalbergia sissau</i> (5%); <i>Eugenia jambola</i> (1%); <i>Ageratum sp.</i> (5%);

### E. Socio-Economy at Basin

Nearby settlement	Banjariya village; 500m from lake; Main trail: Banjariya ko bato
Land use	Agriculture (60%); Wetlands (40%).
Demography	Population: 589; Male:289; Female: 300; HHs: 82; (Survey 2013) <i>Brahmin/Chettri</i> (2.9%); <i>Janajati</i> (31.5%); <i>Dalit</i> (1.7%); <i>Others</i> (26.4%); Major Religion: Hindu; Major Dialect: Bhojpuri). Avg land hold size:0.63 ha/HH
Education	Primary level (90%); School level certificate (+2) (15%); University level (5%).
Occupation	Agriculture (88%); Employment (12%)
Jurisdiction/ownership	State
Wetlands dependent community	Majhi (Malahar)community (HH:10; Distance to site:2-3km (From kalaiya); Literacy: 30%; Annual income:50000/yr)
Livestock at basin	Cows:20; Buffaloes:50; Goats: 200(Avg 2/HH)
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	None

### F. Ecosystem Goods/Services

Provisional services	Fish supply.
Cultural services	Festival at Chhat.

**G. Restoration/Management**

Structural management	None
Non-structural management	None
Conservation plan	None
Monitoring plan	None.

**H. Tourism information**                      None

**I. Lake condition**                              Degrading.

## Annex-18: Inventory of lakes in Dhanusha district

### 1. Aagni Kund

Code: P2-D2-001

Toposheet no: 2685 08 B

Date of inventory: May 23, 2013

Compiler's name: Sujan Ghimire



#### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°44'25.99"N; <u>Lon.</u> : 85°54'44.25" E; <u>Alt.</u> : 81 masl.
Geographical position	Terai
Administrative feature	CDR; Dhanusha district; Janakpur Municipality; 8 ward; Baluwa tole. (Currently: Janakpurdham Municipality; Ward no. 13)
Boundary	<u>Core Area</u> : Settlement in east; Settlement in west: Settlement in south; Settlement in north. <u>Basin Area</u> : Agriculture land in east; Agriculture land in west; Agriculture land in south; Agriculture land in north.
Management Responsibility	Government (Ramsita Mandir)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 38°C (Jun/Jul). <u>Avg. Min.</u> : 4°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 2.5 ha; Avg. Length: 200m; 3 m; Avg. Width: 150 m; Avg. Depth: 3 m; Max-Min Surface Water Level: 0.5-1m; <u>Basin Area</u> : 15-20 ha

#### C. Hydrological feature

Water Volume	Peak Period: 100 000 m <sup>3</sup> ; Dry period: 90 000 m <sup>3</sup> ;
Water quality	<u>Physicochemical parameter</u> : Temp.: 28 °C; pH: 6.9;
Soil feature	Sandy Clay Loam
Shocks/vulnerability	NA

#### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : NA, <u>Zooplankton</u> : NA <u>Core Area</u> : No Plants
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Major plants in basin	<i>Mangifera indica</i> (LN: Mango; HT: Tr; LU: Tr)
Fish	(LN: Kothre; N/C: 6; LU: Meat); ... (LN: Rahu; N/C: 3; LU: Meat); (LN: Naini; N/C: 2; LU: Meat); ... (LN: Silver carp; N/C: 5; LU: Meat). All species introduce.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Melanochelys spp.</i> (LN: Kachuwa); <i>Amphiesma spp.</i> (LN: Panisap); <i>Ptyas spp.</i> (LN: Dhaman)
Birds	<i>Corvus splendens</i> (LN: House Crow; ON: 1; Local); <i>Columba spp.</i> (Common Pigeon, ON: 6); <i>Bubulcus ibis</i> (LN: Bakulla, ON: 2)
Mammals	NA
Invasive alien species	NA
Endemic plant/animal	NA
Abundance of plants	<u>Core Area</u> : NA 100% open water surface
Area	<u>Area</u> : Mango (20%);

### E. Socio-Economy at Basin

Nearby settlement	Baluwatole; 1.5 km from lake; Main trail: Dhulikhel Sindhuli Birtamode highway.
Land use	Agriculture (45%); Settlement (10%); Wetlands (5%);
Demography	Population: 2400; Male: 1100; Female: 1300; HHs: 350; <i>Brahmin/Chettri</i> (90%); <i>Janajati</i> (3%); <i>Dalit</i> (5%); <i>Others</i> (2%); Major Religion: Hindu; Major Dialect: Maithili.
Education	Primary level (85%); School level certificate (+2) (50%); University level (10%).
Occupation	Agriculture (50%); Employment (20%); Trade/Business (10%); Remittance (20%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	450
Traditional production system	None
Traditional water use practices	Community pond (2).
Cultural record	NA
Genesis/origin of lake	NA

### F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery; Domestic use
Cultural services	Historic site for hindu community; excursion site for students; local fair in <i>Chhath</i> .

### G. Restoration/Management

Structural management	NA
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Non-structural management	None
Conservation plan	NA
Monitoring plan	NA
<b>H. Tourism information</b>	NA
<b>I. Lake condition</b>	Degrading.

## 2. Angraj Sar

Code: P2-D2-002

Toposheet no: 2685 08 B

Date of inventory: May 21, 2013

Compiler's name: Laxmi Awasthi



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26°43' 53"N; <u>Long.</u> : 85°55' 32" E; <u>Alt.</u> : 57 amsl.
Geographical position	Terai
Administrative feature	CDR; Dhanusha district; Janakpur Munacipality; 10 ward; Janaki Chock (Currently: Janakpurdham Municipality; Ward no. 6)
Boundary	<u>Core Area</u> : Vegitable Market in east; settlement in west; Dharmsala in south; Drinking Water Tank in north. <u>Basin Area</u> : Ramanand chock in east; Janaki Mandir in west; Janaki mandir in south; Settlement in north.
Management Responsibility	Government (Janaki Mandir)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 40°C (Jun/Jul). <u>Avg. Min.</u> : 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 3 ha; Avg. Length: 200m; Avg. Width: 150 m; Avg. Depth: 4 m; Max-Min Surface Water Level: 1-4m; <u>Basin Area</u> : 10-15 ha.

### C. Hydrological feature

Water Volume	Peak Period: 120000 m <sup>3</sup> ; Dry period: 80000 m <sup>3</sup> ; Inlet: Overflow from drinking water tank, Discharge Rate: 1000 lts/s; outlet: small drainage at east.
Water quality	<u>Physicochemical parameter</u> : Temp.: 25 °C; pH: 6.8;
Soil feature	Grey and dark color, sandy silt loam texture.
Shocks/vulnerability	NA

### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : Spirogyra sp (50ind./m <sup>2</sup> ), Azolla sps (100ind./m <sup>2</sup> ). <u>Zooplankton</u> : NA <u>Core Area</u> : <i>Eichhornea sp</i> (HT: Sm, LU: Fd for pig), <i>Azolla sp</i> (HT: Sm, LU: ...) <i>Nymphiya sp</i> (HT: Em, LU:)
Major plants in basin	<i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Tr); <i>Ficus spp.</i> (LN: Sami; HT: Tr; LU: Tm, Ful); (LN: Ashoka; HT: Tr; LU:

Fish	Ornamental;) <i>Ficus bengelensis</i> (LN: Bar; HT: Tr; LU: Tm, resin); (Ht: Sh, LU: Fr.); <i>Calatropis spp.</i> (LN: AAnk; HT: sh; LU: Md), <i>Magnifera indica</i> (LN: AAp, HT: Tr, LU: Fr). (LN: Singi; N/C: 2; LU: Meat); ... (LN: Rahu; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 3; LU: Meat); ... (LN: Bhokada; N/C: 2; LU: Meat) ... (LN: kothiya; N/C: 2; LU: Meat) ... (LN: Mahara; N/C: 2; LU: Meat) ... (LN: Garahi; N/C: 2; LU: Meat) (LN: Garchulii; N/C: 2; LU: Meat) (LN: Katari; N/C: 2; LU: Meat) (LN: Silver carp; N/C: 2; LU: Meat). All species introduce.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Melanochelys spp.</i> (LN: Kachuwa); <i>Amphiesma spp.</i> (LN: Panisap); <i>Ptyas spp.</i> (LN: Dhaman)
Birds	<i>Pychnonothus sp.</i> (LN: Jureli; ON: 7; Migratory); <i>Garrulax leucolophus</i> (White-crested Laughing Thrush, ON: 1); <i>Megalaima spp.</i> (Blue- Throated Barbet, ON: 1);
Mammals	<i>Sciurus spp.</i> (Squirrel, ON: 1); ...
Invasive alien species	<u>Plants</u> : <i>Eupatorium sp.</i> (LN: Banmara, CO: 10%); <i>Eichhornea sp</i> (LN: Jalkhumbi, CO: 40%); <i>Mikania macarant</i> (LN: ..., CO: 50 %). <u>Animals</u> : .....
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : <i>Nymphaea spp.</i> (10%), <i>Eichhornea spp.</i> (20%). <u>Basin Area</u> : <i>Papulus ciliaste</i> (10%); <i>Ficusspp.</i> (10); Ashoka,(10%); <i>Ficus bengelensis</i> (5%). <i>Magnifera indica</i> (55% ),

## E. Socio-Economy at Basin

Nearby settlement	Janak Tole,50m from lake; Main trail: janakpur –Jaleshwar Road.
Land use	Settlement (90%); Wetlands (5%); others (5%);
Demography	Population: 4050; Male: 1980; Female: 2070; HHs: 950; <i>Brahmin/Chettri</i> (70%); <i>Janajati</i> (20%); <i>Dalit</i> (5%); <i>Others</i> (5%); Major Religion: Hindu; Major Dialect: Maithali).
Education	Primary level (98%); School level certificate (+2) (90%); University level (60%).
Occupation	Agriculture (30%); Employment (20%); Trade/Business (25%); Remittance (25%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	60 no.
Traditional production system	None. NTFPs: Amlisho, Bamboo
Traditional water use practices	NA
Cultural record	Peoples believed that who does not have childrens they got them if they bath on the lake.
Genesis/origin of lake	NA

## F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery; fuelwood; fodder/forage
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Cultural services

Historic site for Hindu Community; excursion site for students;  
Swimming place for Hindu prayer.

### **G. Restoration/Management**

Structural management

Wall, Embankments

Non-structural management

Informal restriction.

Conservation plan

Available.

Monitoring plan

None.

### **H. Tourism information**

>200000 annual visitors; good guest houses-; locally operated hotels-; Many Hotel Management College Needs improvement in infrastructure and human resource.

### **I. Lake condition**

Degrading.

### 3. Beeshahara Sagar

Code: P2-D2-003

Toposheet no: 2685 08 B

Date of inventory: May 24 2013

Compiler's name: Bina Dangol



#### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°43'23"N; <u>Lon.</u> : 85°55'52 "E; <u>Alt.</u> : 65 amsl.
Geographical position	Terai
Administrative feature	CDR; Dhanusha district; Janakpur Municipality; ward no 4; Beeshahara  (Currently: Janakpurdham Municipality; Ward no. 4)
Boundary	<u>Core Area</u> : Road in east and mix of water lettuce, duckweed, Pater and Paspalum in all direction <u>Basin Area</u> : Settlement in west and south, agriculture in south and Temple of krishna in east
Management Responsibility	Guthi (Ram mandir)
Wetlands type	Freshwater/ natural; Lacustrine; permanent

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 39 °C (Jun/Jul). <u>Avg. Min.</u> : 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 4 ha; Avg. Length: 400m; Avg. Width: 150m; Avg. Depth: 2m; Max-Min Surface Water Level: 5-2m

#### C. Hydrological feature

Water Volume	Peak Period:120000m <sup>3</sup> ; Outflow: Kulo
Water quality	<u>Physicochemical parameter</u> : Temp.: 32 °C; pH: Blue litmus changes into red Soil feature: Grey color; sandy loam
Shocks/vulnerability	None

#### D. Biological feature

Major aquatic plants	Phytoplankton: Spirogyra.  Zooplankton: None  Core Area: Eichornnea;(LN: jalkumbhi; HT: fl; LU: None Basin area: Ficus religiopsa (LN: Peepal; HT: Tr; Lu: Rel); (LN: Mirchaiya; HT: Sh; LU: None); Eucalyptus spp. (LN: Masala; HT: Tr; LU: Tm); ..... (LN: Pakhri; HT: Tr; LU: None); Ficus religiopsa (LN: Peepal; HT: Tr; Lu: Rel); Dalbergia sissoo (LN: Sissau; HT: Tr; LU: Tim) Mangifera indica (LN: Mango; HT: Tr; Lu: Food); Bambusa vulgaris (LN: Bamboo; HT: Tr;LU: Tm).
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Fish	(Introduced) Labio rohita (LN: Rohu; LU: meat); Hypophthalmic molitrix (LN: Silver; LU: meat); ... (LN: Israil; LU: meat); ... (LN: Bigred; LU: Meat); Ctenoharyngodon idella (LN: Grass carp; LU: meat); ..... (LN: Chhadi; LU: meat); (LN: Naini; LU: Meat)  (Local).... (LN: Buhari; LU: meat)
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Melanochelys spp.</i> (LN: Kachuwa); <i>Amphiesma spp.</i> (LN: Panisap); <i>Ptyas spp.</i> (LN: Dhaman)
Birds	<i>Casmerodius albus</i> (LN: Bakulla; ON:2; LU: None); <i>Myceteria spp.</i> (LN: Garud; LU: None); <i>Leptoptilos spp.</i> (LN: Garud; LU: None); <i>Tachybaptus spp.</i> (LN: Silly; LU: None)
Mammals	NA
Invertebrates	Snail, Earthworm
Invasive alien species	None
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : <i>Eichorrnea</i> (20%); <u>Basin Area</u> : <i>Reed</i> (30%) <i>Ficus religiopsa</i> (2%) <i>Mirchaiya</i> (15%) <i>Masala</i> (8%)
Biomass in core area	None

### E. Socio-Economy at Basin

Nearby settlement	Beeshahara; 6.2m from lake
Land use	Settlement-95%; Lake-5%
Demography	Population: 1400; Male:650; Female: 750; HHs: 200; <i>Brahmin/Chettri</i> (50%); <i>Janajati</i> (40%); <i>Dalit</i> (10%)Major Religion: Hindu; Major Dialect: Maithali)
Education	Primary level (100%); School level certificate (+2) (60%); University level (40%).
Occupation	Agriculture (40%); Trade and busines (20%); Wages/labor (20%); Remittance (20%)
Jurisdiction/ownership	State
Wetlands dependent community	None
Livestock at basin	<i>Bos Taurus</i> (LN: Cow; ON:2; LU: Domestication); <i>Bubulus bubalis</i> (LN: Buffalo; ON:1; LU: Domestication); <i>Capra argagrus</i> (LN: Goat; LU: Domestication)
Traditional production system	Rice field
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	None

### F. Ecosystem Goods/Services

Provisional services	Domestic water supply, Fish supply
Cultural services	None

### G. Restoration/Management

Structural management	None
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Non-structural management	None
Conservation plan	None
Monitoring plan	None.
<b>H. Tourism information</b>	None
<b>I. Lake condition</b>	Good

#### 4. Bihar Kunda

Code: P2-D2-004

Toposheet no: 2685 08 B

Date of inventory: May 23, 2013

Compiler's name: Sujan Ghimire



##### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26°44'17.21"N; <u>Lon.</u> : 85°54'44.90" E; <u>Alt.</u> : 81 masl.
Geographical position	Terai
Administrative feature	CDR; Dhanusha district; Janakpur Munacipality; 08 ward; Baluwatole. (Currently: Janakpurdham Municipality; Ward no. 8)
Boundary	<u>Core Area</u> : Kuti of baidya in east; kuti in west: Ramsita Mandir in south; Ramsita Mandir in north. <u>Basin Area</u> : Baluwatole Settlement in east; Agriculture Land in west; Balmikinagar in south; Agriculture land in north.
Management Responsibility	Government (Ramsita Mandir)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

##### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 42°C (Jun/Jul).
Physical feature	
Area	<u>Core Area</u> : 2.5 ha; Avg. Length: 200m; 3 m; Avg. Width: 150 m; Avg. Depth: 3 m; Max-Min Surface Water Level: 0.5-1m; <u>Basin Area</u> : 15-20 ha

##### C. Hydrological feature

Water Volume	Peak Period: 100 000 m <sup>3</sup> ; Dry period: 90 000 m <sup>3</sup> ; Inlet: Small stream and Discharge Rate: ... lts/s; Inlet: none; Discharge Rate: NA
Water quality	<u>Physicochemical parameter</u> : Temp.: 28 °C; pH: 6.9;
Soil feature	Sandy Clay Loam
Shocks/vulnerability	NA

##### D. Biological feature

Major aquatic plants	Phytoplankton: Spirogyra sp (100ind./m <sup>2</sup> ), Azolla sps (75ind./m <sup>2</sup> ). Zooplankton: NA
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Major plants in basin	Core Area: <i>hydrophyllum</i> sp (HT: Floating, LU: orn); <i>trapa</i> (HT: Sm, LU: NA); <i>Nelumbo</i> sps. (HT: Floating, LU: orn); Ficus spp. (LN: Peepal; HT: Tr; LU: Tr); <i>Artocarpus</i> spp. (LN: Katahar; HT: Tr; LU: food); <i>Cocos nucifera</i> (LN: Nariwol; HT: Tr; LU: Tr); <i>Mangifera indica</i> (LN: Mango; HT: Tr; LU: Tr); <i>Cyanodon</i> sps. (LN: Dubo; HT: Herb; LU: herb);
Fish	... (LN: Kothre; N/C: 6; LU: Meat); ... (LN: Rahu; N/C: 3; LU: Meat); ... (LN: Naini; N/C: 2; LU: Meat); ... (LN: Siver; N/C: 5; LU: Meat). All species introduce.
Herpetofauna	<i>Rana</i> spp. (LN: Bhyaguto); <i>Melanochelys</i> spp. (LN: Kachuwa); <i>Amphiesma</i> spp. (LN: Panisap); <i>Ptyas</i> spp. (LN: Dhaman)
Birds	<i>Corvus</i> spp. Crow; ON: 2; Local); ... (Chibe, ON: 1); <i>Bubulcus</i> spp. (Bakulla, ON: 5);
Mammals	<i>Funambulus</i> (Tree Squirrel ON: 2)
Invasive alien species	NA
Endemic plant/animal	NA
Abundance of plants	<u>Core Area</u> : <i>Nelumbo</i> sps. (90%), <i>hydrophyllum</i> sps. (15%). <u>Basin Area</u> : <i>Mango</i> (20%); <i>coconut</i> (10%); <i>katahar</i> (2%);

## E. Socio-Economy at Basin

Nearby settlement	Baluwatole; 1 km from lake; Main trail: Dhulikhel Sindhuli Birtamode highway.
Land use	Agriculture (45%); Settlement (10%); Wetlands (5%);
Demography	Population: 2400; Male: 1100; Female: 1300; HHs: 350; <i>Brahmin/Chettri</i> (90%); <i>Janajati</i> (3%); <i>Dalit</i> (5%); <i>Others</i> (2%); Major Religion: Hindu; Major Dialect: Maithili).
Education	Primary level (85%); School level certificate (+2) (50%); University level (5%).
Occupation	Agriculture (50%); Employment (20%); Trade/Business (10%); Remittance (20%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	450
Traditional production system	None
Traditional water use practices	Community pond (2).
Cultural record	NA
Genesis/origin of lake	NA

## F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery; domestic purpose
Cultural services	Historic site for hindu; excursion site; local fair in <i>Chhath</i> .

### **G. Restoration/Management**

Structural management	NA
Non-structural management	NA
Conservation plan	NA
Monitoring plan	NA

**H. Tourism information** NA

**I. Lake condition** Degrading.

## 5. Bindhichowk Pokhari

Code: P2-D2-005

Toposheet no: 2685-08 B

Date of inventory: May 21, 2013

Compiler's name: Sudha Rimal



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 26°42'24"N; Lon.: 85°53'36" E; Alt.: 45 amsl.

Geographical position

Tarai

Administrative feature

CDR; Dhanusha district; Bindhi VDC; Ward no. 6; Bindhi Chowk.

(Currently: Janakpurdham Municipality; Ward no. 23)

Boundary

Core Area: School in west; Highway in east; Settlement in south and Agricultural Land in north.

Basin Area: School in west; Highway in east; Settlement in south and Agricultural Land in north.

Management Responsibility

Managed by school named Tribhuwan Adharsha Uchha Mavhi

Wetlands type

Freshwater/ natural; Lacustrine; Permanent. Boring water is used for this lake.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 42°C (Jun/Jul). Avg. Min.: 5°C (Dec).

Physical feature

Area

Core Area: 4 ha; Avg. Length: 200m; 5 m; Avg. Width: 150 m; Avg. Depth: 5 m; Max-Min Surface Water Level: No change; Basin Area: 10-12 ha

### C. Hydrological feature

Water Volume

Peak Period: 150 000 m<sup>3</sup>; Inlet: none; Discharge Rate: NA

Water quality

Physicochemical parameter: Temp.: 27°C;

Soil feature

Grey Colour with Loamy sand texture

Shocks/vulnerability

NA

### D. Biological feature

Major aquatic plants

Phytoplankton: Spirogyra sp (100 ind./m<sup>2</sup>), Zooplankton: NA

Core Area: Eichhornea sp (HT: Sm, LU: Feed for pig); .... (LN: Aaruwa (Karkalo); HT: Em; LU: Curry); .... (LN: Bhand; HT: Em; LU: None)

Major plants in basin

*Ficus spp.* (LN: Peepal; HT: Tr; LU: Tr); *Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tr); ..... (LN: Aam; HT: Tr; LU: fruit)



Fish	... (LN: Bhokhara; N/C: 2; LU: Meat); ... (LN: Common Carp; N/C: 2; LU: Meat); ... (LN: Silver; N/C: 5; LU: Meat). All species introduce.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Melanochelys spp.</i> (LN: Kachuwa); <i>Amphiesma spp.</i> (LN: Panisap); <i>Ptyas spp.</i> (LN: Dhaman)
Birds	<i>Corvus spp.</i> (LN: Crow; ON: 4; Local); ... (LN: Silly, ON: 2); ... (LN: Hans, ON: 3); <i>Bubulcus spp.</i> (LN: Bakulla; ON: 2; Migratory)
Mammals	NA
Invertebrates	<i>Pheritoma spp.</i> (Earthworm; LU: None); .... (Snail; LU: Food)
Invasive alien species	NA
Endemic plant/animal	.... (LN: Kewda Phool; LU: To prepare Doop)
Abundance of plants	<u>Core Area</u> : <i>Eichhornea sp</i> (1%); Bhat(0.5%); Karkalo (0.5%); Hydrophytes (negligible)  <i>BasinArea</i> : <i>Sisoo</i> (5%); <i>Aaam</i> (7%); <i>Peepal</i> (2%);
Biomass in core area	None.

### E. Socio-Economy at Basin

Nearby settlement	Bindhi; 2 km from lake; Main trail: Mahottari to Birtamod Highway.
Land use	Forest land (0%); Shrub land (0%); Grass land (0%); Agriculture (80%); Settlement (20%); Wetlands (5%); Others (8%);
Demography	Population: 750; Male: 400; Female: 350; HHs: 150; <i>Brahmin/Chettri</i> (65%); <i>Janajati</i> (5%); <i>Dalit</i> (25%); <i>Others</i> (5%); Major Religion: Hindu; Major Dialect: Maithali).
Education	Primary level (100%); School level certificate (+2) (80%); University level (65%).
Occupation	Agriculture (90%); Employment (20%); Fishing (2%); Wages/ labor (15%); Trade/Business (5%); Remittance (50%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	Negligible amount
Traditional production system	Rice fields (10 Bigaha)
Traditional water use practices	Community pond, Fair in Chhat Parba
Cultural record	NA
Genesis/origin of lake	NA

### F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery in 10 bigaha land.
Cultural services	Historic site for maithali community; local fair in <i>Chhath</i> .

### G. Restoration/Management

Structural management	NA
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Non-structural management

None

Conservation plan

NA

Monitoring plan

NA

**H. Tourism information**

NA

**I. Lake condition**

Degrading due to lack of inlet and outlet. Likewise, people use this water for bathing and clothing purpose too which leads to degrade the pond.

## 6. Biral Sagar

Code: P2-D2-006

Toposheet no: 2685 08 B

Date of inventory: May 22, 2013

Compiler's name: Dhruva Acharya



### A. General Feature

Conservation status	Religious site
Geographical coordination	<u>Lat.</u> : 26°44'13"N; <u>Lon.</u> : 85°55'43" E; <u>Alt.</u> : 62 amsl.
Geographical position	Terai
Administrative feature	CDR; Dhanusha district; Janakpur Municipality; 9 ward; Kanyapathshala. (Currently: Janakpurdham Municipality; Ward no. 9)
Boundary	<u>Core Area</u> : Settlement in east; Settlement in west: Settlement in south; Settlement in north. <u>Basin Area</u> : Temple in east; Road in west; Sarshwoti chowk in south; settlement in north.
Management Responsibility	Government (Janakpur Brihattar Kshetra)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 45°C (Jun/Jul). <u>Avg. Min.</u> : - 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 1.50 ha; Avg. Length: 180m; Avg. Width: 120 m; Avg. Depth: 3 m; Max-Min Surface Water Level: 2-5 m; <u>Basin Area</u> : 2 ha

### C. Hydrological feature

Water Volume	Peak Period: 64800 m <sup>3</sup> ; Dry period: 43200 m <sup>3</sup> ; Inlet: tube wells and rainwater Discharge Rate: ...
Water quality	Physicochemical parameter: Temp.: 27 0C; pH: Blue litmus changes into red
Soil feature	Grey color, sandy clay.
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : Spirogyra sp Azolla sps <u>Zooplankton</u> : NA <u>Core Area</u> : <i>hydrophyllum</i> (LN: hydrophyllum; HT: LU: None); (LN: Duckweed; HT: Ff; LU: None); .... (LN; Mirchiya jhar; HT; Er; LU: none).
Major plants in basin	<i>Ficus religiopsa</i> (LN: Peepal; HT: Tr; Lu: Rel); <i>Mangifera indica</i>

	(LN: Mango; HT: Tr; Lu: Food); <i>Madhuca longifolia</i> (LN: Mewa; HT: Tr; LU: Food); <i>Cocus nucifera</i> (LN: Coconut; HT: Tr:LU: Food);
<i>Fish</i>	... (LN: Silver; N/C: 7; LU: Meat); ... (LN: Rahu; N/C: 5; LU: Meat); ... (LN: Naini; N/C: 2; LU: Meat); ... (LN: Bhyakur; N/C: 6; LU: Meat) ;(LN: Bighead; N/C: 5; LU: Meat) All species introduce.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Melanochelys spp.</i> (LN: Kachuwa); <i>Amphiesma spp.</i> (LN: Panisap); <i>Ptyas spp.</i> (LN: Dhaman)
Birds	<i>Casmerodius albus</i> (LN: Bakulla; LU: None) ;(LN: Crane; LU: None) ;(LN: waterfowl; LU: None); (LN: Silly; LU: None).
Mammals	Funambulus spp.(Squirrel,);
Invasive alien species	Plants: Eichhornnea sp (LN: Jalkhumbi, CO: 1%); .... (LN: Mirchiya jhar, CO: 2 %). Animals: none
Endemic plant/animal	Plant: None. Animal: none
Abundance of plants	Core Area: hydrophyllum (1%), Mirchiya jhar (1%) Basin Area: <i>Cocus nucifera</i> (15%); <i>Mangifera indica</i> (2%); <i>Ficus religiopsa</i> (2%) <i>Madhuca longifolia</i> (1%)
Biomass in core area	none

## E. Socio-Economy at Basin

Nearby settlement	Sarshwati tole; 20 m from lake; Main road: Jqanakpur ring road.
Land use	Agriculture (10%); Settlement (85%); Wetlands (3%); Others (2%);
Demography	Population: 6546; Male: 3624; Female: 2922; HHs: 1204; <i>Brahmin/Chettri</i> (25%); <i>Janajati</i> (65%); <i>Dalit</i> (5%); <i>Others</i> (5%); Major Religion: Hindu; Major Dialect: Maithili).
Education	Primary level (98%); School level certificate (+2) (50%); University level (25%).
Occupation	Agriculture (25%); Employment (35%); Trade/Business (25%); Remittance (15%).
Jurisdiction/ownership	State
Wetlands dependent community	NA
Livestock at basin	250 no.
Traditional production system	NA
Traditional water use practices	Community pond (1).
Cultural record	Lord Mahadevlives in lake area, mela parwa and worship in chhat, purnima etc.
Genesis/origin of lake	Historical and religious site, the importance of lake was cited in Bal kanda of Tulshidash Ramayan. One of 52 pokhari at time of Ram Sita marriage.

## F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery; washing; cleaning etc.
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Cultural services

Religious site for Hindu; excursion site for students; local fair (hat-bazar) every 15 days during full-moon.

### **G. Restoration/Management**

Structural management

Earthen made dam

Non-structural management

Informal restriction.

Conservation plan

NA

Monitoring plan

None.

### **H. Tourism information**

>50000 annual visitors; good guest house-5; locally operated hotel-3; Hotel Management College in operation. Needs improvement in infrastructure and human resource.

### **I. Lake condition**

Degrading.

## 7. Chapkai Pokhari

Code: P2-D2-007

Toposheet no: 2685-08 B

Date of inventory: May 23, 2013

Compiler's name: Sudha Rimal



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26°42.427'N; <u>Lon.</u> :85°55.908' E; <u>Alt.</u> : 54 amsl.
Geographical position	Terai
Administrative feature	CDR; Dhanusha district; Janakpur Municipality; Ward no. 12; Hanuman Nagar. (Currently: Janakpurdham Municipality; Ward no. 12)
Boundary	<u>Core Area</u> : Barren Land in east; Barren Land in west: Road in south; Barren Land in north. <u>Basin Area</u> : Radansala in east; Meghana CF in west; Mawarak Danda in south; Meghana CF in north.
Management Responsibility	Government
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 42°C (Jun/Jul). <u>Avg. Min.</u> : 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 2 ha; Avg. Length: 200m; 5 m; Avg. Width: 150 m; Avg. Depth: 5 m; Max-Min Surface Water Level: No change; <u>Basin Area</u> : 10-12 ha

### C. Hydrological feature

Water Volume	Peak Period: 150 000 m <sup>3</sup> ; Inlet: none; Discharge Rate: NA
Water quality	<u>Physicochemical parameter</u> : Temp.: 29 °C;
Soil feature	Grey Colour with Sandy Clay texture
Shocks/vulnerability	NA

### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : Spirogyra sp (100 ind./m <sup>2</sup> ), <u>Zooplankton</u> : NA <u>Core Area</u> : No plants available.
Major plants in basin	<i>Ficus spp.</i> (LN: Peepal; HT: Tr; LU: Tr); <i>Ficus spp.</i> (LN: Baar; HT: Tr; LU: Tr); <i>Cyanodonspp.</i> (; HT: Gr; LU: Gr); .....(LN: Mirchaiya; HT: Gr; LU: Ful)

Fish	... (LN: Kothre; N/C: 2; LU: Meat); ... (LN: Rahu; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 2; LU: Meat); ... (LN: Silver; N/C: 5; LU: Meat). All species introduce.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Melanochelys spp.</i> (LN: Kachuwa); <i>Amphiesma spp.</i> (LN: Panisap); <i>Ptyas spp.</i> (LN: Dhaman)
Birds	<i>Corvus spp.</i> (LN: Crow; ON: 4; Local); <i>Dicrurus spp.</i> (Chibe, ON: 2); <i>Bubulcus spp</i> (Bakulla, ON: 3; Migratory)
Mammals	NA
Invertebrates	(Snail: LU: Food); (Dragonfly; ON:4; LU: None)
Invasive alien species	NA
Endemic plant/animal	NA
Abundance of plants	<u>Core Area</u> : NA
BasinArea	<i>Cyanodon</i> (20%); <i>Mirchaiya</i> (5%); No trees available
Biomass in core area	NA

### E. Socio-Economy at Basin

Nearby settlement	Machhe Bikas Kendra; 1km from lake; Main trail: Human Nagar road.
Land use	Forest land (0%); Shrub land (0%); Grass land (2%); Agriculture (50%); Settlement (10%); Wetlands (5%); Others (8%);
Demography	Population: 450; Male: 250; Female:200; HHs: 50; <i>Brahmin/Chettri</i> (10%); <i>Janajati</i> (82%); <i>Dalit</i> (5%); <i>Others</i> (2%); Major Religion: Hindu; Major Dialect: Nepali).
Education	Primary level (85%); School level certificate (+2) (20%); University level (2%).
Occupation	Agriculture (50%); Employment (20%); Trade/Business (10%); Remittance (20%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	Negligible
Traditional production system	None
Traditional water use practices	Irrigational Purpose
Cultural record	NA
Genesis/origin of lake	NA

### F. Ecosystem Goods/Services

Provisional services	Fishery
Cultural services	NA

### G. Restoration/Management

Structural management	NA
Non-structural management	None
Conservation plan	NA

Monitoring plan

NA

**H. Tourism information**

NA

**I. Lake condition**

Degrading.



## 8. Devpura Lake

Code: P2-D2-008

Topo sheet no: 2685 08 B

Date of inventory: May 22, 2013

Compiler's name: Laxmi Awasthi



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°40' 46"N; <u>Long.</u> : 85°55' 24" E; <u>Alt.</u> : 47 amsl.
Geographical position	Terai
Administrative feature	CDR; Dhanusha district; Devpura Rupaitha VDC; 2 ward; Devpura Chock. (Currently: Janakpurdham Municipality; Ward no. 20)
Boundary	<u>Core Area</u> : Settlement in east; Settlement in west: Settlement in south; Road in north. <u>Basin Area</u> : devpura Market in east; basaiya VDC west; Teliya Lake in south; Devpura High School in north.
Management Responsibility	Government (Devpura High School)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 40°C (Jun/Jul). <u>Avg. Min.</u> : 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 2.8 ha; Avg. Length: 180m; Avg. Width:160 m; Avg. Depth: 3m; Max-Min Surface Water Level: 1.5 - 3 m; <u>Basin Area</u> : 4-5 ha

### C. Hydrological feature

Water Volume	Peak Period: 90000 m <sup>3</sup> ; Dry period: 70000 m <sup>3</sup> ; Inlet: None, outlet: None
Water quality	<u>Physicochemical parameter</u> : Temp.: 25 °C; pH: 6.9;
Soil feature	Grey and dark color, loamy Sand texture.
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : Spirogyra sp (50 ind./m <sup>2</sup> ), Azolla sps (100ind./m <sup>2</sup> ). <u>Zooplankton</u> : NA <u>Core Area</u> : <i>Eichhornea sp</i> (HT: Sm, LU: Fd for pig). <i>Hydrophylum</i>
Major plants in basin	<i>Syzygium cumini</i> (LN: Jamun; HT: Tr; LU: Fr); ..... (LN: kera; HT: Tr; LU: fr); <i>Eucalyptis</i> (LN: Masala; HT: Tr; LU: tr, ful) <i>Ficus</i>

	<i>bengelensis</i> (LN: Bar; HT: Tr; LU: Tm, resin); <i>Catatopsis giganata</i> (LN: AAnk; HT: sh; LU: Md).
Fish	... (LN: Singi; N/C: 2; LU: Meat); ... (LN: Rahu; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 3; LU: Meat); ... (LN: Bhokada; N/C: 2; LU: Meat) ... (LN: kothiya; N/C: 2; LU: Meat) ... (LN: Mahara; N/C: 2; LU: Meat) ... (LN: Garahi; N/C: 2; LU: Meat) (LN: Garchulii; N/C: 2; LU: Meat) (LN: Katari; N/C: 2; LU: Meat) (LN: Silver carp; N/C: 2; LU: Meat). All species introduce.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Melanochelys spp.</i> (LN: Kachuwa); <i>Amphiesma spp.</i> (LN: Panisap); <i>Ptyas spp.</i> (LN: Dhaman)
Birds	<i>Pichnonothus sp.</i> (LN: Jureli; ON: 9; Migratory); <i>Garrulax spp.</i> (White-crested Laughing Thrush, ON: 2); <i>Megalaima asiatica</i> (Blue- Throated Barbet, ON: 1); <i>Acridotheres tristis</i> . (Sarau, ON:10), <i>Leptoptilos spp.</i> (Garud, ON:1).
Mammals	... (Squirrel, ON: 1); ...
Invasive alien species	<u>Plants</u> : <i>Eupatorium sp</i> (LN: Banmara, CO: 20%); <i>Eichhornea sp</i> (LN: Jalkhumbi, CO: 30%); <i>Mikania macarant</i> (LN: ..., CO: 50 %). <u>Animals</u> : .....
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : <i>Nymphaea sp</i> (10%), <i>Eichhornea sp</i> (40%). <u>Basin Area</u> : <i>Papulus ciliaste</i> (10%); <i>Ficus bengelensis</i> (5%), <i>Syzygium cumini</i> (30%), <i>Eucalyptis</i> (50%)

## E. Socio-Economy at Basin

Nearby settlement	Devpura chock; 1km m from lake; Main trail: janakpur –Jatahi road
Land use	Forest land (...); Shrub land (...); Grass land (...); Agriculture (70%) Settlement (25%); Wetlands (3 %) Others (2%);
Demography	Population: 1000; Male: 490; Female: 510; HHs: 150; <i>Brahmin/Chettri</i> (50%); <i>Janajati</i> (30%); <i>Dalit</i> (10%); <i>Others</i> (10%); Major Religion: Hindu; Major Dialect: Maithali).
Education	Primary level (100%); School level certificate (+2) (40%); University level (10%).
Occupation	Agriculture (60%); Employment (5%); Trade/Business (25%); Remittance (10%).
Jurisdiction/ownership	State
Wetlands dependant community	None.
Livestock at basin	30 no.
Traditional production system	None. NTFPs: Amlisho.
Traditional water use practices	Community pond (2).
Cultural record	None
Genesis/origin of lake	NA

## **F. Ecosystem Goods/Services**

Provisional services	Water for livestock; fishery; fuelwood; fodder/forage
Cultural services	None

## **G. Restoration/Management**

Structural management	None
Non-structural management	Informal restriction.
Conservation plan	None
Monitoring plan	None.

**H. Tourism information** None.

**I. Lake condition** Degrading.

## 9. Dhanu Sagar

Code: P2-D2-001

Toposheet no: 2685 08 B

Date of inventory: May 21, 2013

Compiler's name: Sujan Ghimire



### A. General Feature

Conservation status

Cultural heritage

Geographical coordination

Lat.: 26°43'41.04"N; Lon.: 85°55'40.24" E; Alt.: 80 masl.

Geographical position

Terai

Administrative feature

CDR; Dhanusha district; Janakpur Municipality; 4 ward; Janakchowk.

(Currently: Janakpurdham Municipality; Ward no. 6)

Boundary

Core Area: Settlement in east; Settlement in west: Settlement in south; Settlement in north.

Basin Area: Ganga Sagar in east; Shree Ram Temple in west; Murli sagar in south; Manaki Hotel in north.

Management Responsibility

Government (Janakpur Brihattar Kshetra)

Wetlands type

Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43°C (Jun/Jul)

Physical feature

Area

Core Area: 2 ha; Avg. Length: 200m; 2 m; Avg. Width: 150 m; Avg. Depth: 2 m; Max-Min Surface Water Level: No change; Basin Area: 15-20 ha

### C. Hydrological feature

Water Volume

Peak Period: 150 000 m<sup>3</sup>; Dry period: no change; Inlet: NA

Water quality

Physicochemical parameter:

Temp.: 28°C; pH: 6.9;

Soil feature

Grey and dark color, loamy Sand texture.

Shocks/vulnerability

NA

### D. Biological feature

Major aquatic plants

Phytoplankton: Spirogyra sp (100ind./m<sup>2</sup>), Zooplankton: NA

Core Area: No Plants

Major plants in basin

*Ficus spp.* (LN: Peepal; HT: Tr; LU: Tr); *Eucalyptus spp.* (LN: Masala; HT: Tr; LU: Tr); *Cocas nucifera* (LN: Nariwol; HT: Tr; LU: Tr); *Saraca asoca* (LN: Ashoka; HT: Tr; LU: Tr)

Fish	... (LN: Kothre; N/C: 2; LU: Meat); ... (LN: Rahu; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 2; LU: Meat); ... (LN: Siver; N/C: 5; LU: Meat). All species introduce.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Melanochelys spp.</i> (LN: Kachuwa); <i>Amphiesma spp.</i> (LN: Panisap); <i>Ptyas spp.</i> (LN: Dhaman)
Birds	<i>Corvus spp.</i> (LN: Crow; ON: 2; Local); <i>Dicrurus spp.</i> (Chibe, ON: 1); <i>Columbus spp.</i> (Pigeon, ON: 13);
Mammals	NA
Invasive alien species	NA
Endemic plant/animal	NA
Abundance of plants	<u>Core Area</u> : 100% open water <u>Area</u> : <i>Coconut</i> (20%); <i>Masala</i> (10%); <i>Peepal</i> (2%);

### E. Socio-Economy at Basin

Nearby settlement	Janak Chowk; 500 m from lake; Main trail: Janakpur jaleshowar highway road.
Land use	Agriculture (5%); Settlement (90%); Wetlands (5%);
Demography	Population: 3000; Male: 1573 Female: 1427; HHS: 600; <i>Brahmin/Chettri</i> (80%); <i>Janajati</i> (15%); <i>Dalit</i> (2%); <i>Others</i> (3%); Major Religion: Hindu; Major Dialect: Maithili.
Education	Primary level (95%); School level certificate (+2) (60%); University level (25%).
Occupation	Agriculture (50%); Employment (20%); Trade/Business (10%); Remittance (20%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	Negligible (Due to town area)
Traditional production system	None
Traditional water use practices	Several Community ponds and Several Religious Ponds
Cultural record	a piece of <i>dhanus</i> of lord Shiva that has been broken by lord Rama lies in this pond
Genesis/origin of lake	NA

### F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery; Domestic use
Cultural services	Historic site for hindu community; Mela during Bibaha Panchami and Mela during each full moon

### G. Restoration/Management

Structural management	Cemented stairs all around the lake.
Non-structural management	None
Conservation plan	NA
Monitoring plan	NA

**H. Tourism information**

NA

**I. Lake condition**

Degrading.

## 10. Ganga Sagar

Code: P2-D2-010

Toposheet no: 2685 08 B

Date of inventory: May 21, 2013

Compiler's name: Sujan Ghimire



### A. General Feature

Conservation status

Cultural heritage

Geographical coordination

Lat.: 26°43'44.98"N; Lon.: 85°55'49.5" E; Alt.: 80 masl.

Geographical position

Terai

Administrative feature

CDR; Dhanusha district; Janakpur Municipality; 4 ward; Janakpath.

(Currently: Janakpurdham Municipality; Ward no. 3)

Boundary

Core Area: Settlement in east; Settlement in west; Settlement in south; Settlement in north.

Basin Area: Agriculture land in east; Dhanu Sagar in west; Vishara Pond in south; Hotel Welcome in north.

Management Responsibility

Government (Janakpur Brihattar Kshetra)

Wetlands type

Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43°C (Jun/Jul).

Physical feature

Area

Core Area: 2 ha; Avg. Length: 200m; 2 m; Avg. Width: 150 m; Avg. Depth: 5 m; Max-Min Surface Water Level: No change; Basin Area: 10-12 ha

### C. Hydrological feature

Water Volume

Peak Period: 150 000 m<sup>3</sup>; Dry period: 0 m<sup>3</sup>; Inlet: Small stream and Discharge Rate: ... lts/s; Inlet: none; Discharge Rate: NA

Water quality

Physicochemical parameter: Temp.: 25 °C; pH: 6.9;

Soil feature

No soil can be seen due to full cemented structure all around the lake

Shocks/vulnerability

NA

### D. Biological feature

Major aquatic plants

Phytoplankton: Spirogyra sp (100ind./m<sup>2</sup>), Zooplankton: NA

Core Area: No Plants

Major plants in basin

*Ficus spp.* (LN: Peepal; HT: Tr; LU: Tr); *Eucalyptus spp.* (LN: Masala; HT: Tr; LU: Tr); *Cocos spp.* (LN: Nariwol; HT: Tr; LU: Tr)

Fish	... (LN: Kothre; N/C: 2; LU: Meat); ... (LN: Rahu; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 2; LU: Meat); ... (LN: Siver; N/C: 5; LU: Meat). All species introduce.
Herpetofauna	<i>Rana spp.</i> (LN: <i>Bhyaguto</i> ); <i>Melanochelys spp.</i> (LN: <i>Kachuwa</i> ); <i>Amphiesma spp.</i> (LN: <i>Panisap</i> ); <i>Ptyas spp.</i> (LN: <i>Dhaman</i> )
Birds	<i>Corvus spp.</i> (LN: Crow; ON: 4; Local); <i>Dicrurus spp.</i> (Chibe, ON: 2); <i>Columbus spp.</i> (Pigeon, ON: 3);
Mammals	NA
Invasive alien species	NA
Endemic plant/animal	NA
Abundance of plants	<u>Core Area</u> : NA. <u>Basin Area</u> : Coconut (20%); Masala (10%); Peepal (2%);

### E. Socio-Economy at Basin

Nearby settlement	Danda Bazar; 3 km from lake; Main trail: Bhendetar-Rajarani road.
Land use	Forest land (25%); Shrub land (5%); Grass land (2%); Agriculture (45%); Settlement (10%); Wetlands (5%); Others (8%);
Demography	Population: 1300; Male: 870; Female: 430; HHs: 503; <i>Brahmin/Chettri</i> (80%); <i>Janajati</i> (15%); <i>Dalit</i> (2%); <i>Others</i> (3%); Major Religion: Hindu; Major Dialect: Maithili.
Education	Primary level (95%); School level certificate (+2) (60%); University level (25%).
Occupation	Agriculture (50%); Employment (20%); Trade/Business (10%); Remittance (20%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	Negligible (Due to town area)
Traditional production system	None
Traditional water use practices	Community pond (1).
Cultural record	NA
Genesis/origin of lake	NA

### F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery
Cultural services	Historic site for hindu community; excursion site for students; local fair in <i>Chhath</i> .



## **G. Restoration/Management**

Structural management	Cemented stairs all around the lake.
Non-structural management	None
Conservation plan	NA
Monitoring plan	NA

**H. Tourism information** NA

**I. Lake condition** Degrading.

## 11. Gautam Sarobar

Code: P2-D2-011

Toposheet no: 2685-08B

Date of inventory: May 22, 2013

Compiler's name: Sudha Rimal



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26°39'51"N; <u>Lon.</u> : 85°55'26"E; <u>Alt.</u> : 61masl.
Geographical position	Tarai
Administrative feature	CDR; Dhanusha district; Ghodghas, Gangauli VDC; Ward no. 6; Rastriya Nimabi, Gangauli. (Currently: Nagarain Municipality; Ward no. 5)
Boundary	<u>Core Area</u> : Trees in west; trees Land in east; trees in south; trees in north. <u>Basin Area</u> : Settlement in west; Agricultural Land in east; Agricultural Land in south; Settlement in north.
Management Responsibility	Government (Managed by VDC)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent, Boring.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 41°C (Jun/Jul). <u>Avg. Min.</u> : 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 4 ha; Avg. Length: 300m; Avg. Width: 200m; Avg. Depth: 2.5 m; Max-Min Surface Water Level: 2-2.5 m

### C. Hydrological feature

Water Volume	Peak Period: 150 000 m <sup>3</sup> ; Dry period: 120 000 m <sup>3</sup> ; Inlet: none; Discharge Rate: NA
Water quality	<u>Physicochemical parameter</u> : Temp.: 29 °C;
Soil feature	Grey Colour with Loamy Sand texture
Shocks/vulnerability	NA

### D. Biological feature

Major aquatic plants	Phytoplankton: Spirogyra sp (100ind./m <sup>2</sup> ), Zooplankton: NA <u>Core Area</u> : <i>Eichhornea sp</i> (HT: Sm; LU: None); .....(LN: Singada; HT: Sm, LU: None); <i>Hydrophyllum sps</i> (HT: Ff; LU: None); .... (LN: Kamal; HT: Ff; LU: None); .... (LN: Hydrilla; HT: Ff; LU: None); .... (LN: Hydrophytes; HT: Ff; LU: None); .... (LN: Mirchaiya; HT: Sm; LU: Ful)
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Major plants in basin	.... (LN: Aam; HT: Tr; LU: Fruit); .....(LN: Cyanodon; HT: Gr; LU: None); .... (LN: Peepal; HT: Tr; LU: Tr); .... (LN: Bamboo; HT: Tr; LU: Tr); .... (LN: Aashoka; HT: Tr; LU: Tr); .... (LN: Masala; HT: Tr; LU: Tr); .... (LN: Khajur; HT: Tr; LU: Tr); .... (LN: Katahar; HT: Tr; LU: Fruit and Curry)
Fish	... (LN: Kothre; N/C: 2; LU: Meat); ... (LN: Common Carp; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 2; LU: Meat); ... (LN: Siver; N/C: 5; LU: Meat) All species introduce.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Melanochelys spp.</i> (LN: Kachuwa); <i>Amphiesma spp.</i> (LN: Panisap); <i>Ptyas spp.</i> (LN: Dhaman)
Birds	<i>Acridotheres spp</i> (LN: Sarau; ON: 7; Migratory); <i>Magpie spp.</i> (LN: Lamfusre; ON: 3; Migratory); ....(LN: Koili; ON: 2; Migratory); <i>Corvus Spp.</i> LN: Kaag; ON: 3; Local); <i>Tachybaptus</i> (LN: Silly; ON: 10; Local); <i>Bubulcus spp.</i> (LN: Bakulla; ON: 1; Migratory)
Mammals	None
Invertabrates	None
Invasive alien species	<i>Eichhornea sp</i> (20%)
Endemic plant/animal	NA
Abundance of plants	<u>Core Area</u> : <i>Eichhornea sp</i> (20%), Kamal ko Bhai (60%), Kamal (10%), Others (10%) <u>BasinArea</u> : Karkalo (30%); Hydrophytes (40%); Masala+Mango (20%); Others (10%)
Biomass in core area	NA

### E. Socio-Economy at Basin

Nearby settlement	Bashaiya; 2 minutes from lake; Main trail: Ghodghas.
Land use	Forest land (0%); Shrub land (0%); Grass land (2%); Agriculture (80%); Settlement (5%); Wetlands (10%); Others (3%);
Demography	Population:150; Male:75; Female:77; HHS:300; Brahmin/Chettri (60%); Janajati (20%); Dalit (15%); Others (5%); Major Religion: Hindu; Major Dialect: Maithali).
Education	Primary level (95%); School level certificate (+2) (85%); University level (60%).
Occupation	Agriculture (55%); Employment (5%); Trade/Business (3%); Fishing (2%); Wages/labor (15%); Remittance (10%); Others (10%)
Jurisdiction/ownership	State (Managed by School)
Wetlands dependent community	None.
Livestock at basin	.... (LN: Buffalo; ON:5; LU: Domestication); .....(LN: Cow; ON: 2; LU: Domestication); .....(LN: Goat; ON: 3; LU: Domestication)
Traditional production system	Most of the land are used to cultivate rice.
Traditional water use practices	Irrigational Purpose with bathing and Clothing.
Cultural record	None.

Genesis/origin of lake NA

**F. Ecosystem Goods/Services**

Provisional services Drinking water supply and Irrigating water supply

Cultural services Local fair in Chhat Parba and water for school too.

**G. Restoration/Management**

Structural management Sewage system and wall made by mud surrounded by flowers.

Non-structural management None

Conservation plan NA

Monitoring plan NA

**H. Tourism information** NA

**I. Lake condition** Degrading (Higher eutrophication due to water hyacinth).

## 12. Ithi Pokhari

Code: P2-D2-012

Toposheet no: 2685-08 B

Date of inventory: May 22 2013

Compiler's name: Bina Dangol



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°41'58"N; <u>Lon.</u> : 85°54'29 "E; <u>Alt.</u> : 49 amsl.
Geographical position	Terai
Administrative feature	CDR; Dhanusha district; Bashaiya VDC; ward no; Mardhar (Currently: Janakpurdham Municipality; Ward no. 24)
Boundary	<u>Core Area</u> : Mango farm in east, barren in west and north and grassland in south. <u>Basin Area</u> : Agriculture in west and north, settlement in south and Mango farm in east
Management Responsibility	School
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 39°C (Jun/Jul). <u>Avg. Min.</u> : 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> :2ha; Avg. Length: 110m; Avg. Width: 100m; Avg. Depth: 2m; Max-Min Surface Water Level: 5–2.m;

### C. Hydrological feature

Water Volume	Peak Period: 22000m <sup>3</sup>
Water quality	<u>Physicochemical parameter</u> : Temp.: 28 °C. Soil feature: Grey color; Clay
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : Spirogyra, Nostoc <u>Zooplankton</u> : None <u>Core Area</u> : Hydrophylum (LN: None; HT: Ff; LU: None); <i>Water hyacinth</i> (LN: Jalakumbhi; HT: Ff; LU: None) ;( <u>Basin area</u> : <i>Dalbergia sissau</i> (LN: Sissau; HT: Tr; LU: Tim) <i>Mangifera indica</i> (LN: Mango; HT: Tr; Lu: Food) <i>Bambusa vulgaris</i> (LN: Bamboo; HT: Tr;LU: Tm) ;(LN: Coconut; HT: Tr; Lu: Food)
Fish	(Introduced) <i>Labio rohita</i> (LN: Rohu; LU: meat); Hypophthalmic molitrix (LN: Silver; LU: meat); ... (LN: Israil; LU: meat); ... (LN: Bigred; LU: Meat); Ctenoharyngodon idella (LN: Grass carp; LU: meat); ..... (LN: Pothi; LU: meat); (LN: Naini; LU: Meat); .....(LN: Mara; LU: Meat)

Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Melanochelys spp.</i> (LN: Kachuwa); <i>Amphiesma spp.</i> (LN: Panisap); <i>Ptyas spp.</i> (LN: Dhaman)
Birds	<i>Casmerodius albus</i> (LN: Bakulla; ON:2; LU: None) ;(LN: Crane; LU: None); <i>Leptoptilos spp.</i> (LN: Garud; LU: None); ... <i>Tachybaptus spp.</i> (LN: waterfowl; LU: None))
Mammals	None
Invertebrates	<i>Rana spp.</i> (LN: Bhyaguto); <i>Melanochelys spp.</i> (LN: Kachuwa); <i>Amphiesma spp.</i> (LN: Panisap); <i>Ptyas spp.</i> (LN: Dhaman)
Invasive alien species	None
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : Water hycinth (negligible); Hydrophylum (negligible); <u>Basin Area</u> : Hydrophylum (5%); Pipariya (4%); Mirchaiya (2%); Karkalo (1%); <i>Cynodon</i> (1%)
Biomass in core area	None

### **E. Socio-Economy at Basin**

Nearby settlement	Mardhar village; 500m from lake; Main trail: Mardhar road
Land use	Forest land-5%; Shrub land-5%; Grass land-15%; Agriculture -40%; Lake-35%
Demography	Population <i>Brahmin/Chettri</i> (2.9%); <i>Janajati</i> (31.5%); <i>Dalit</i> (1.7%); <i>Others</i> (26.4%): 823; Male:417; Female: 405; HHs: 121; (NPHC 2011); Major Religion: Hindu; Major Dialect: Maithali)
Education	Primary level (90%); School level certificate (+2) (15%); University level (5%).
Occupation	Agriculture (80%); Employment (10%); Fishing (5%); Trade and business (5%)
Jurisdiction/ownership	State
Wetlands dependent community	None
Livestock at basin	<i>Bos Taurus</i> (LN: Cow; ON:2; LU: Domestication); <i>Bubulus bubalis</i> (LN: Buffalo; ON:1; LU: Domestication); <i>Capra argagrus</i> (LN: Goat; LU: Domestication)
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	None

### **F. Ecosystem Goods/Services**

Provisional services	Fish supply
Cultural services	None

### **G. Restoration/Management**

Structural management	None
Non-structural management	None
Conservation plan	None

Monitoring plan

None.

**H. Tourism information**

None

**I. Lake condition**

Degrading.

### 13. Kapalmochani Sagar

Code: P2-D2-013

Toposheet no: 2685 08 B

Date of inventory: May 21, 2013

Compiler's name: Dhruba Acharya



#### A. General Feature

Conservation status

Religious site

Geographical coordination

Lat.: 26°43'56"N; Lon.: 85°55'16" E; Alt.: 54 amsl.

Geographical position

Terai

Administrative feature

CDR; Dhanusha district; Janakpur Municipality; 8 ward; Bajaranga chowk.

(Currently: Janakpurdham Municipality; Ward no. 8)

Boundary

Core Area: Road in east; Settlement in west; Settlement in south; Settlement in north.

Basin Area: Yatri nibash in east; Janaki health care in west; Maharaj sagar in south; settlement in north.

Management Responsibility

Government (Janakpur Brihattar Kshetra)

Wetlands type

Freshwater/ natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 38°C (Jun/Jul). Avg. Min.: - 5°C (Dec).

Physical feature

Area

Core Area: 2.50 ha; Avg. Length: 300m; Avg. Width: 150 m; Avg. Depth: 3 m; Max-Min Surface Water Level: 2-5 m; Basin Area: 3 ha

#### C. Hydrological feature

Water Volume

Peak Period: 135000 m<sup>3</sup>; Dry period: 9000 m<sup>3</sup>; Inlet: tube wells and rainwater Discharge Rate: ...

Water quality

Physicochemical parameter: Temp.: 28 °C; pH: Blue litmus changes into red

Soil feature

Greycolor, sandy clay.

Shocks/vulnerability

None

#### D. Biological feature

Major aquatic plants

Phytoplankton: Spirogyra sp Azolla sps Zooplankton: NA

Core Area: ... (LN: Bangera; HT: fl; LU: None); (LN: Tilkor; HT: Cl; LU: None); .... (LN; Mirchiya jhar; HT; Er; LU: none).

Major plants in basin

*Ficus religiosa* (LN: Peepal; HT: Tr; Lu: Rel); *Mangifera indica* (LN: Mango; HT: Tr; Lu: Food); *Madhuca longifolia* (LN: Mewa;



	HT: Tr; LU: Food); <i>Cocus nucifera</i> (LN: Coconut; HT: Tr:LU: Food) ;(LN; <i>Soijan</i> ; HT; Tr; LU: vegetable); <i>Saraca asoca</i> (LN; <i>Ashoka plant</i> ; HT; Tr: LU: shade/fodder)
Fish	... (LN: Silver; N/C: 8; LU: Meat); ... (LN: Rahu; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 15; LU: Meat); ... (LN: Kamalkath; N/C: 6; LU: Meat) ;(LN: Bighead; N/C: 5; LU: Meat) (LN: Grass carp; N/C: 2; LU: Meat) All species introduce.
Herpetofauna	.... (LN: Dhodia saap; LU: None); ..... (LN: Masar gidhi saap; LU: none)
Birds	<i>Casmerodius albus</i> (LN: Bakulla; LU: None); .... (LN: Crane; LU: None); ... (LN: Silly; LU: None).
Mammals	...(Squirrel,); ... (Bat,)
Invasive alien species	<u>Plants</u> : .... (LN: Mirchiya jhar, CO: 2 %). <u>Animals</u> : none
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : none
Abundance of plants	<u>Core Area</u> : Bangera (1%); Tilkor (1%) Mirchiya jhar (2%) <u>Basin Area</u> : <i>Cocus nucifera</i> (5%); <i>Mangifera indica</i> (2%); <i>Ficus religiosa</i> (2%) <i>Madhuca longifolia</i> (1%); <i>Soijan</i> (1%); <i>Saraca asoca</i> (20%).
Biomass in core area	none

## E. Socio-Economy at Basin

Nearby settlement	Bajaranga Chowk; 20 m from lake; Main road: Hospital-Ramananda chowk road.
Land use	Agriculture (10%); Settlement (80%); Wetlands (5%); Others (5%);
Demography	Population: 9779; Male: 5414; Female: 4365; HHs: 1706; <i>Brahmin/Chettri</i> (30%); <i>Janajati</i> (60%); <i>Dalit</i> (5%); <i>Others</i> (5%); Major Religion: Hindu; Major Dialect: Maithili.
Education	Primary level (98%); School level certificate (+2) (70%); University level (45%).
Occupation	Agriculture (25%); Employment (35%); Trade/Business (25%); Remittance (15%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	500 no.
Traditional production system	None.
Traditional water use practices	Community pond (1).
Cultural record	Cultural belief is that person who bath in the lake, all disease is removed, and people worship in chhat, purnima etc.
Genesis/origin of lake	Historical and religious site, once Lord Mahadev attack against Lord Brahma and head of Brahma fall on it and formed a lake. One of 52 pokhari at time of Ram Sita marriage.

## F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery; washing; cleaning etc.
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Cultural services

Religious site for Hindu; excursion site for students; local fair.

### **G. Restoration/Management**

Structural management

Dam and wall around the lake.

Non-structural management

Informal restriction.

Conservation plan

none.

Monitoring plan

None.

### **I. Tourism information**

>10000 annual visitors; good guest house-7 including Yatri nibash; locally operated hotel-3; Hotel Management College in operation. Neaby hospital, internet facility and needs to improvement in infrastructure and human resource.

### **J. Lake condition**

Good.

## 14. Kuti Pokhari

Code: P2-D2-014

Toposheet no: 2685-08B

Date of inventory: May 22, 2013

Compiler's name: Sudha Rimal



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°41'32"N; <u>Lon.</u> : 85°54'21"E; <u>Alt.</u> : 53masl.
Geographical position	Tarai
Administrative feature	CDR; Dhanusha district; Bashaiya VDC; Ward no. 7; Bashaiya. (Currently: Janakpurdham Municipality; Ward no. 24)
Boundary	<u>Core Area</u> : Settlement in west; settlement Land in east; settlement in south; settlement in north. <u>Basin Area</u> : Settlement in west; Agricultural Land in east; Agricultural Land in south; Settlement in north.
Management Responsibility	Government (Managed by VDC)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent, Crystal Clear.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 41°C (Jun/Jul). <u>Avg. Min.</u> : 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 2 ha; Avg. Length: 150m; Avg. Width: 100m; Avg. Depth: 4m; Max-Min Surface Water Level: no change

### C. Hydrological feature

Water Volume	Peak Period: 60 000 m <sup>3</sup> ; Dry period: 60 000 m <sup>3</sup> ; Inlet: none; Discharge Rate: NA
Water quality	<u>Physicochemical parameter</u> : Temp.: 29 °C;
Soil feature	Grey Colour with Sandy Clay texture
Shocks/vulnerability	NA

### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : <i>Spirogyra spp.</i> (100ind./m <sup>2</sup> ), <u>Zooplankton</u> : NA <u>Core Area</u> : No plants in core area
Major plants in basin	<i>Mangifera indica</i> (LN: Aam; HT: Tr; LU: Fruit); <i>Dalbergia sissoo</i> (LN: Sissoo; HT: TR; LU: Tr); <i>Ficus spp.</i> (LN: Peepal; HT: Tr; LU: Tr); <i>Cocos Spp.</i> (LN: Nariwol; HT: Tr; LU: Fruit)
Fish	... (LN: Kothre; N/C: 2; LU: Meat); ... (LN: Common Carp; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 2; LU: Meat); ... (LN: Silver; N/C: 5; LU: Meat) All species introduce.

Herpetofauna	<i>Rana spp. (LN: Bhyaguto); Melanochelys spp. (LN: Kachuwa); Amphiesma spp. (LN: Panisap); Ptyas spp. (LN: Dhaman)</i>
Birds	NA
Mammals	NA
Invertabrates	.... (LN: Ghongi; LU: Food); .... (LN: Gadeula; LU: None); .... (LN: Dragonfly; ON: 10; LU: None); .... (LN: Water Spider; ON: Severals; LU: None)
Invasive alien species	<i>Eichorrnea spp.</i>
Endemic plant/animal	NA
Abundance of plants	<u>Core Area</u> : <i>Eichorrnea spp. (1%), Open water surface (99%)</i> <u>BasinArea</u> : Banana (60%); Mango (10-15%); Peepal(Negligible); Others (25%)
Biomass in core area	NA

### **E. Socio-Economy at Basin**

Nearby settlement	Bashaiya; 2 minutes from lake; Main trail: Ghodghas.
Land use	Forest land (0%); Shrub land (0%); Grass land (0%); Agriculture (80%); Settlement (18%); Wetlands (2%); Others (0%);
Demography	Population: 200; Male:60; Female:40; HHS:15; <i>Brahmin/Chettri (80%); Janajati (13%); Dalit (5%); Others (2%);</i> Major Religion: Hindu; Major Dialect: Maithali.
Education	Primary level (98%); School level certificate (+2) (15%); University level (10%).
Occupation	Agriculture (100%); Employment (Negligible); Trade/Business (Negligible); Fishing (0%); Wages/labor (80%); Remittance 5%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	Negligible.
Traditional production system	None.
Traditional water use practices	Community pond (1).
Cultural record	None.
Genesis/origin of lake	NA

### **F. Ecosystem Goods/Services**

Provisional services	NA
Cultural services	NA

### **G. Restoration/Management**

Structural management	NA
Non-structural management	None
Conservation plan	NA
Monitoring plan	NA

**H. Tourism information**

NA

**I. Lake condition**

Degrading.

## 15. Laski Pokhari (Shiva Sagar)

Code: P2-D2-015

Toposheet no: 2685-08 B

Date of inventory: May 22 2013

Compiler's name: Bina Dangol



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°41'58"N; <u>Lon.</u> : 85°54'29 "E; <u>Alt.</u> : 49 amsl.
Geographical position	Terai
Administrative feature	CDR; Dhanusha district; Bashaiya VDC; ward no 09; Sonapara (Currently: Janakpurdham Municipality; Ward no. 24)
Boundary	<u>Core Area</u> : Grassland in all direction. <u>Basin</u> <u>Area</u> : Grassland in west, north, south and east
Management Responsibility	School (Bashaiya secondary school)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 41 (Jun/Jul). <u>Avg. Min.</u> : 4 (Dec).
Physical feature	
Area	<u>Core Area</u> : 3 ha; Avg. Length: 300m; Avg. Width: 150m; Avg. Depth: 2m; Max-Min Surface Water Level: 1.8–2.7m;

### C. Hydrological feature

Water Volume	Peak Period: 27000m <sup>3</sup>
Water quality	<u>Physicochemical parameter</u> : Temp.: 27 °C Soil feature: Grey color; Sandy loam
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : Spirogyra, Nostoc <u>Zooplankton</u> : None <u>Core Area</u> : Hydrophyllum (LN: None; HT: Ff; LU: None); <i>Eichorrnea</i> (LN: Jalakumhbhi; HT: Ff; LU: None) ;( <u>Basin area</u> : <i>Mangifera indica</i> (LN: Mango; HT: Tr; Lu: Food) ..... <i>Ficus religiopsa</i> (LN: Peepal; HT: Tr; Lu: Rel) .....;(LN: Mirchaiya; HT: Sh; LU: None)
Fish	(Introduced) <i>Labio rohita</i> (LN: Rohu; LU: meat); Hypophthalmic molitrix (LN: Silver; LU: meat); ... (LN: Israil; LU: meat); ... (LN: Bigred; LU: Meat); Ctenoharyngodon idella (LN: Grass carp; LU: meat); ..... (LN: Pothi; LU: meat); (LN: Naini; LU: Meat); .....(LN: Mara; LU: Meat)

Herpetofauna	<i>Rana spp. (LN: Bhyaguto); Melanochelys spp. (LN: Kachuwa); Amphiesma spp. (LN: Panisap); Ptyas spp. (LN: Dhaman)</i>
Birds	<i>Casmerodius albus (LN: Bakulla; ON:2; LU: None); Leptoptilos spp. (LN: Garud; LU: None)</i>
Mammals	None
Invertebrates	(LN: Snail; LU: None); .....(LN: Dragon fly; LU: None)
Invasive alien species	None
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : <i>Eichorrnea</i> (negligible); <i>Hydrophyllum</i> (negligible); <u>Basin Area</u> : <i>Hydrophyllum</i> (5%); <i>Pipariya</i> (4%); <i>Mirchaiya</i> (2%); <i>Colocosia spp.</i> (1%); <i>Cynodon</i> (1%)
Biomass in core area	None

### **E. Socio-Economy at Basin**

Nearby settlement	
Land use	Forest land-5%; Shrub land-5%; Grass land-15%; Agriculture -40%; Lake-35%
Demography	Population: 823; Male:417; Female: 405; HHs: 121; <i>Brahmin/Chettri</i> (2.9%); <i>Janajati</i> (31.5%); <i>Dalit</i> (1.7%); <i>Others</i> (26.4%); MAJOR Religion: Hindu; Major Dialect: Maithali)
Education	Primary level (90%); School level certificate (+2) (15%); University level (5%).
Occupation	Agriculture (80%); Employment (10%); Fishing (5%); Trade and business (5%)
Jurisdiction/ownership	State
Wetlands dependent community	Malaha community; Population HH:1042; Distance :1.5km; Literacy:50%; Annual income:150000
Livestock at basin	<i>Bos Taurus</i> (LN: Cow; ON:2; LU: Domestication); <i>Bubulus bubalis</i> (LN: Buffalo; ON:1; LU: Domestication); <i>Capra argagrus</i> (LN: Goat; LU: Domestication)
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	None

### **F. Ecosystem Goods/Services**

Provisional services	Fish supply
Cultural services	None

### **G. Restoration/Management**

Structural management	None
Non-structural management	None
Conservation plan	None

Monitoring plan

None.

**H. Tourism information**

None

**I. Lake condition**

Degrading.



## 16. Maharaj Sagar

Code: P2-D2-016

Toposheet no: 2685 08 B

Date of inventory: May 21, 2013

Compiler's name: Laxmi Awasthi



### A. General Feature

Conservation status

Religious site

Geographical coordination

Lat.: 26°43' 54"N; Long.: 85°55' 18" E; Alt.: 59 amsl.

Geographical position

Terai

Administrative feature

CDR; Dhanusha district; Janakpur Municipality; 6 ward; Amrit Chock.

(Currently: Janakpurdham Municipality; Ward no. 8)

Boundary

Core Area: Foot trail in east; Dashrath Mandir in west; Foot trail in south; Paglababa Aasram in north.

Basin Area: Yatri niwash/Barhabiga in east; Janakpur Jatahi Road in west; Settlement in south; Janakpur-Jaleshar Road in north.

Management Responsibility

Government (Janakpur Brihattar Kshetra)

Wetlands type

Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max. Temp.: 40°C (Jun/Jul). Avg. Min.: 5°C (Dec).

Physical feature

Area

Core Area: 6 ha; Avg. Length: 300m; Avg. Width: 200 m; Avg. Depth: 3.5m; Max-Min Surface Water Level: 1.5 - 3 m; Basin Area: 10-12 ha

### C. Hydrological feature

Water Volume

Peak Period: 210,000 m<sup>3</sup>; Dry period: 90,000 m<sup>3</sup>; Inlet: None outlet: small drainage at south.

Water quality

Physicochemical parameter: Temp.: 25 °C; pH: 6.9;

Soil feature

Grey and dark color, sandy silt loam texture.

Shocks/vulnerability

30 years before, Maharaj Sagar was very big lake and persons worshipped for Maharaj Dashrath but now the lake is encroached.

## D. Biological feature

Major aquatic plants	Phytoplankton: Spirogyra sp (500 ind./m <sup>2</sup> ), Azolla sps (100ind./m <sup>2</sup> ). Zooplankton: NA <u>Core Area:</u> <i>Eichhornea sp</i> (HT: Sm, LU: Fd for pig).
Major plants in basin	<i>Papulus ciliaste</i> (LN: pipal; HT: Tr; LU: Tr); ..... (LN: Sami; HT: Tr; LU: Tm, Ful); ..... (LN: Ashoka; HT: Tr; LU: Ornamental); <i>Ficus bengelensis</i> (LN: Bar; HT: Tr; LU: Tm, resin) ;(Ht: Sh, LU: Fr.); <i>Catatopsis giganata</i> (LN: AAnk; HT: sh; LU: Md).
Fish	... (LN: Singi; N/C: 2; LU: Meat); ... (LN: Rahu; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 3; LU: Meat); ... (LN: Bhokada; N/C: 2; LU: Meat) ... (LN: kothiya; N/C: 2; LU: Meat) ... (LN: Mahara; N/C: 2; LU: Meat) ... (LN: Garahi; N/C: 2; LU: Meat) (LN: Garchulii; N/C: 2; LU: Meat) (LN: Katari; N/C: 2; LU: Meat) (LN: Silver carp; N/C: 2; LU: Meat). All species introduce.
Herpetofauna	<i>Rana spp.</i> (LN: <i>Bhyaguto</i> ); <i>Melanochelys spp.</i> (LN: <i>Kachuwa</i> ); <i>Amphiesma spp.</i> (LN: <i>Panisap</i> ); <i>Ptyas spp.</i> (LN: <i>Dhaman</i> )
Birds	<i>Pichnonothus sp.</i> (LN: Jureli; ON: 7; Migratory); <i>Garrulax spp.</i> (White-crested Laughing Thrush, ON: 1);
Mammals	<i>Funambulusspp.</i> (Squirrel, ON: 1);
Invasive alien species	<u>Plants:</u> <i>Eupatorium sp</i> (LN: Banmara, CO: 30%); <i>Eichhornea sp</i> (LN: Jalkhumbi, CO: 40%); <i>Mikania macarant</i> (LN: ..., CO: 30 %). <u>Animals:</u> .....
Endemic plant/animal	<u>Plant:</u> None. <u>Animal:</u> None
Abundance of plants	<u>Core Area:</u> <i>Nymphaea sp</i> (10%), <i>Eichhornea sp</i> (20%). <u>Basin Area:</u> <i>Papulus ciliaste</i> (20%); .....Sami (10); Ashoka, (5%); <i>Ficus bengelensis</i> (1%).

## E. Socio-Economy at Basin

Nearby settlement	Amrit tole; 100m from lake; Main trail: janakpur –Jaleshwar Road.
Land use	Forest land (...); Shrub land (...); Grass land (...); Agriculture (NA) Settlement (90%); Wetlands (5%); Others (5%);
Demography	Population: 4050; Male: 1980; Female: 2070; HHs: 950; <i>Brahmin/Chettri</i> (70%); <i>Janajati</i> (20%); <i>Dalit</i> (5%); <i>Others</i> (5%); Major Religion: Hindu; Major Dialect: Maithali).
Education	Primary level (98%); School level certificate (+2) (90%); University level (60%).
Occupation	Agriculture (45%); Employment (15%); Trade/Business (25%); Remittance (15%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	50 no.
Traditional production system	None. NTFPs: Amlisho.
Traditional water use practices	Community pond (1).

Cultural record	King Dashrath made the lake when he came to the <i>mithila</i> .
Genesis/origin of lake	NA
<b>F. Ecosystem Goods/Services</b>	
Provisional services	Water for livestock; fishery; fuel wood; fodder/forage
Cultural services	Historic site for Hindu Community; excursion site for students; Swimming place for Hindu prayer.
<b>G. Restoration/Management</b>	
Structural management	Wall, Embankments
Non-structural management	Informal restriction.
Conservation plan	Available.
Monitoring plan	None.
<b>H. Tourism information</b>	
	>200000 annual visitors; good guest house; locally operated hotel. Needs improvement in infrastructure and human resource.
<b>I. Lake condition</b>	
	Degrading.

## 17. Manipal Taal

Code: P2-D2-017

Toposheet no: 2685-08 B

Date of inventory: May 20, 2013

Compiler's name: Sudha Rimal



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°45'23"N; <u>Lon.</u> : 85°55'00" E; <u>Alt.</u> : 59 amsl.
Geographical position	Tarai
Administrative feature	CDR; Dhanusha district; Janakpur Municipality; Ward no.13; Rani bazar (Malawa Tole). (Currently: Janakpurdam Municipality; Ward no. 13)
Boundary	<u>Core Area</u> : Agricultural Land in east; Agricultural Land in west; Agricultural Land in south; Agricultural Land in north. <u>Basin Area</u> : Sparse settlement in west, Park in agricultural Land in south and Forest with Agricultural Land in north.
Management Responsibility	Government
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 42°C (Jun/Jul). <u>Avg. Min.</u> : 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 2 ha; Avg. Length: 200m; 3m; Avg. Width: 180m; Avg. Depth: 3m; Max-Min Surface Water Level: 1.5 - 2 m; <u>Basin Area</u> : 10-12 ha

### C. Hydrological feature

Water Volume	Peak Period: 180 000 m <sup>3</sup> ; Dry period: 90000 m <sup>3</sup> ;
Water quality	<u>Physicochemical parameter</u> : Temp.: 28 °C;
Soil feature	Grey color, sandy loam texture.
Shocks/vulnerability	None.

### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : Spirogyra sp (300 ind./m <sup>2</sup> ). <u>Zooplankton</u> : None <u>Core Area</u> : <i>Oxalis</i> (HT: Em, LU: None), <i>Imperata Clindrica</i> (HT: None, LU: None), (LN: Leu)
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Major plants in basin	... (LN: Masala; HT: Tr; LU: Tr); ... (LN: Simal; HT: Tr; LU: Tr, Ful); ... (LN: Aam; HT: Tr; LU: Fruit); ... (LN: Aashoka; HT: Tr; LU: Tr); ... (LN: Mirchaiya; HT: Tr; LU: Tr)
Fish	... (LN: Silmar; N/C: 10-15; LU: Meat); ... (LN: Grass Carp; N/C: 25; LU: Meat); ... (LN: Common Carp; N/C: 10; LU: Meat); ... (LN: Rahu; N/C: 50; LU: Meat) ;(LN: Big Head; N/C: 20)
Herpetofauna	<i>Rana spp. (LN: Bhyaguto); Melanochelys spp. (LN: Kachuwa); Amphiesma spp. (LN: Panisap); Ptyas spp. (LN: Dhaman)</i>
Birds	... (LN: Bakulla; ON: 1; Migratory); ... (LN: Kauwa; ON: 2); ... (LN: Chibe; ON: 2); ... (LN: Dangre; ON: 4)
Mammals	NA
Invertabrates	Snail, Earthworm
Invasive alien species	<u>Plants</u> : None <u>Animals</u> : None
Endemic plant/animal	None
Abundance of plants	<u>Core Area</u> : None. <u>Basin Area</u> : <i>Eucalaptus</i> (1%), <i>Saracaasoca spp.</i> (3%), Mango (2%)
Biomass in core area	None.
<b>E. Socio-Economy at Basin</b>	
Nearby settlement	Rani Bazar, Makhatole; 1 km from lake; Main trail: Pidari Chowk.
Land use	Forest land (0%); Shrub land (0%); Grass land (10%); Agriculture (80%); Settlement (8%); Wetlands (2%); Others (0%);
Demography	Population: 520; Male: 300; Female: 250; HHs: 65; <i>Brahmin/Chettri</i> (15%); <i>Janajati</i> (45%); <i>Dalit</i> (25%); <i>Others</i> (0%); Major Religion: Hindu; Major Dialect: Maitheli).
Education	Primary level (95%); School level certificate (+2) (45%); University level (1%).
Occupation	Agriculture (40%); Employment (10%); Trade/Business (10%); Remittance (20%). Wage labour (20%)
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	... (Buffalo; ON: 15; LU: Domestication); ... (Cow; ON: 1; LU: Domestication); ... (Ox; ON: 2); ... (Goat; ON: 3; Lu: Domestication)
Traditional production system	None.
Traditional water use practices	Community pond (1).
Cultural record	None.
Genesis/origin of lake	NA

**F. Ecosystem Goods/Services**

Provisional services	Water for livestock; fishery
Cultural services	NA

**G. Restoration/Management**

Structural management	NA
Non-structural management	NA
Conservation plan	NA
Monitoring plan	NA

**H. Tourism information** None.

**I. Lake condition** Degrading.

## 18. Murali Sagar

Code: P2-D2-018

Toposheet no: 2685 08 B

Date of inventory: May 23, 2013

Compiler's name: Laxmi Awasthi



### A. General Feature

Conservation status	Religious site
Geographical coordination	<u>Lat.</u> : 26°43' 22"N; <u>Long.</u> : 85°55' 43" E; <u>Alt.</u> : 64 amsl.
Geographical position	Terai
Administrative feature	CDR; Dhanusha district; Janakpur Municipality; 4 ward; Murali/bidhyapati Chock. (Currently: Janakpurdam Municipality; Ward no. 4)
Boundary	<u>Core Area</u> : Settlement in east; Settlement in west: Settlement in south; School and temple in north. <u>Basin Area</u> : Railway line east; Janakpur-Jatahi road in west; Settlement in south; Regional and district court janakpur in north.
Management Responsibility	Government (Guthi Sansthan Janakpur/Ram Mandir Guthi)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 40°C (Jun/Jul). <u>Avg. Min.</u> : 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 4 ha; Avg. Length: 200m; Avg. Width: 180 m; Avg. Depth: 2.5m; Max-Min Surface Water Level: .5 – 2.5 m; <u>Basin Area</u> : 7-8 ha

### C. Hydrological feature

Water Volume	Peak Period: 90000 m <sup>3</sup> ; Dry period: 45000 m <sup>3</sup> ; Inlet: None outlet: small drainage at east.
Water quality	<u>Physicochemical parameter</u> : Temp.: 25 °C; pH: 6
Soil feature	Grey and dark color, sandy silt loam texture.
Shocks/vulnerability	NA

### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : Spirogyra sp (500 ind./m <sup>2</sup> ), Azolla sps (100ind./m <sup>2</sup> ). <u>Zooplankton</u> : NA
Major plants in basin	<u>Core Area</u> : <i>Eichhornea sp</i> (HT: Sm, LU: Fd for pig). <i>Papulus ciliaste</i> (LN: pipal; HT: Tr; LU: Tr); <i>Ficus spp.</i> (LN: Sami; HT: Tr; LU: Tm, Ful); <i>Saracaaso spp.</i> (LN: Ashoka; HT:

	Tr; LU: Ornamental;) <i>Ficus bengelensis</i> (LN: Bar; HT: Tr; LU: Tm, resin );(Ht: Sh, LU: Fr.); <i>Catatopsis giganata</i> (LN: AAnk; HT: sh; LU: Md); <i>Colocosia</i> spp. (LN: karkalo; HT: hr; LU: NA);
Fish	... (LN: Singi; N/C: 2; LU: Meat); ... (LN: Rahu; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 3; LU: Meat); ... (LN: Bhokada; N/C: 2; LU: Meat) ... (LN: kothiya; N/C: 2; LU: Meat) ... (LN: Mahara; N/C: 2; LU: Meat) ... (LN: Garahi; N/C: 2; LU: Meat) (LN: Garchulii; N/C: 2; LU: Meat) (LN: Katari; N/C: 2; LU: Meat) (LN: Silver carp; N/C: 2; LU: Meat). All species introduce.
Herpetofauna	<i>Rana</i> spp. (LN: Bhyaguto); <i>Melanochelys</i> spp. (LN: Kachuwa); <i>Amphiesma</i> spp. (LN: Panisap); <i>Ptyas</i> spp. (LN: Dhaman)
Birds	<i>Pichnonothus</i> sp. (LN: Jureli; ON: 7; Migratory); ..... (White-crested Laughing Thrush, ON: 1); ..... (Blue- Throated Barbet, ON: 1); ... (Crowned Pigmy Woodpecker, ON: 1), (Lesser whistling-duck, LN: Silli, On: 10,) ... (Egret, LN: Bakulla, On:2), (Asian Pied Starling, LN: Rupi/Dangre, On: 15).
Mammals	NA
Invasive alien species	Plants: <i>Eupatorium</i> sp (LN: Banmara, CO: 20%); <i>Eichhornea</i> sp (LN: Jalkhumbi, CO: 50%); <i>Mikania macarant</i> (LN: ..., CO: 30 %). Animals: .....
Endemic plant/animal	Plant: None. Animal: None
Abundance of plants	Core Area: <i>Nymphaea</i> sp (10%), <i>Eichhornea</i> sp (50%). Basin <u>Area</u> : <i>Papulus ciliaste</i> (20%); <i>Ficus spp.</i> (10); Ashoka, (5%); <i>Ficus bengelensis</i> (5%).

## E. Socio-Economy at Basin

Nearby settlement	Murali Tole; 250m from lake; Main trail: janakpur –Jatahi Road.
Land use	Forest land (...); Shrub land (...); Grass land (...); Agriculture (NA) Settlement (95%); Wetlands (3%); others (2%);
Demography	Population: 4550; Male: 2280; Female: 2270; HHs: 1000; Brahmin/Chettri (60%); Janajati (20%); Dalit (10%); Others (10%); Major Religion: Hindu; Major Dialect: Maithali).
Education	Primary level (99%); School level certificate (+2) (85%); University level (60%).
Occupation	Agriculture (30%); Employment (20%); Trade/Business (40%); Remittance (10%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	10 no.
Traditional production system	None. NTFPs: Amlisho.
Traditional water use practices	NA
Cultural record	According to myth, at the time of loard Krishna, he used to come here and make a sound of <i>basuri/murali</i> , so it is called as Murali Sagar.



Genesis/origin of lake NA

### **F. Ecosystem Goods/Services**

Provisional services Water for livestock; fishery; fuelwood; fodder/forage

Cultural services Historic site for Hindu Community; excursion site for students; Swimming place for Hindu prayer.

### **G. Restoration/Management**

Structural management No

Non-structural management Informal restriction.

Conservation plan Available.

Monitoring plan None.

### **H. Tourism information**

>2000 annual visitors; Needs improvement in infrastructure and human resource.

### **I. Lake condition**

Degrading.

## 19. Parseni Sagar

Code: P2-D2-019

Toposheet no: 2685- 08 B

Date of inventory: May 20, 2013

Compiler's name: Sudha Rimal



### A. General Feature

Conservation status

Religious site

Geographical coordination

Lat.: 26°45'45"N; Lon.: 85°54'90" E; Alt.: 64amsl.

Geographical position

Terai

Administrative feature

CDR; Dhanusha district; Janakpur Municipality; Ward no. 13; Ranibazar.

(Currently: Janakpurdham Municipality; Ward no. 14)

Boundary

Core Area: Settlement in west; Agricultural Land in east; Manipal Hospital in south; Temple in north.

Basin Area: Settlement in west; Agricultural Land in east; Manipal Hospital in south; Temple in north.

Management Responsibility

Managed by Community

Wetlands type

Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 42°C (Jun/Jul). Avg. Min.: 5°C (Dec).

Physical feature

Area

Core Area: 2 ha; Avg. Length: 120m; Avg. Width: 100m; Avg. Depth: 1.5m Max-Min Surface Water Level: 2m

### C. Hydrological feature

Water Volume

Peak Period: 24 000 m<sup>3</sup>; Dry period: 18 000 m<sup>3</sup>; Inlet: none; Discharge Rate: NA

Water quality

Physicochemical parameter: Temp.: 29 °C;

Soil feature

Grey Colour with sandy loam texture

Shocks/vulnerability

NA

### D. Biological feature

Major aquatic plants

Phytoplankton: *Spirogyra sp* (100 ind./m<sup>2</sup>), Zooplankton: NA

Core Area: ... (LN: aaruwa(Karkalo); HT: Em; LU: Curry); .... (LN: Mirchaiya; HT: Em; LU: Ful); ... (LN: Dhaturu; HT: Tr; LU: worship);

Major plants in basin

*Ficus religiosa* (LN: Peepal; HT: Tr; LU: Tr); *Mangifera indica* (LN: Aam; HT: TR; LU: Fruit);

Fish	... (LN: Silmar; N/C: 10-15; LU: Meat); ... (LN: Grass Carp; N/C: 25; LU: Meat); ... (LN: Common Carp; N/C: 10; LU: Meat); ... (LN: Rahu; N/C: 50; LU: Meat) ;(LN: Big Head; N/C: 20). All species introduce.
Herpetofauna	<i>Rana spp.</i> (LN: <i>Bhyaguto</i> ); <i>Melanochelys spp.</i> (LN: <i>Kachuwa</i> ); <i>Amphiesma spp.</i> (LN: <i>Panisap</i> ); <i>Ptyas spp.</i> (LN: <i>Dhaman</i> )
Birds	<i>Bubulcus spp.</i> (LN: Bakulla; ON:2)
Mammals	NA
Invertabrates	.... (LN: Gangato; LU: None); .... (LN: Gadeula; LU: None); .... (LN: Water Spider; LU: None)
Invasive alien species	NA
Endemic plant/animal	NA
Abundance of plants	<u>Core Area</u> : NA

Basin Area: Aasoka (5%); Masala (10%); Peepal (2%); Aam (5%)

### E. Socio-Economy at Basin

Nearby settlement	Danda Bazar; 3 km from lake; Main trail: Bhendetar-Rajarani road.
Land use	Forest land (0%); Shrub land (0%); Grass land (10%); Agriculture (80%); Settlement (8%); Wetlands (2%); Others (0%);
Demography	Population: 520; Male: 300; Female: 250 HHs: 65; <i>Brahmin/Chettri</i> (15%); <i>Janajati</i> (45%); <i>Dalit</i> (25%); <i>Others</i> (15%); Major Religion: Hindu; Major Dialect: maithili).
Education	Primary level (95%); School level certificate (+2) (35%); University level (1%).
Occupation	Agriculture (45%); Employment (10%); Trade/Business (10%); Remittance (20%); Wages/ Labor (20%)
Jurisdiction/ownership	Community
Wetlands dependent community	None.
Livestock at basin	.... (Cow; ON: 1; LU; Domestication)
Traditional production system	None
Traditional water use practices	Community pond (1).
Cultural record	None
Genesis/origin of lake	During the marriage of Ram and Sita, their leg was cleaned by the water of the very pond.

### F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery
Cultural services	Local fair in <i>Chhath</i> .

### G. Restoration/Management

Structural management	NA
Non-structural management	None

Conservation plan	NA
Monitoring plan	NA
<b>H. Tourism information</b>	NA
<b>I. Lake condition</b>	Degrading.

## 20. Rukmini Sagar

Code: P2-D2-020

Toposheet no: 2685 08 B

Date of inventory: May 21, 2013

Compiler's name: Dhruva Acharya



### A. General Feature

Conservation status

Religious site

Geographical coordination

Lat.: 26°44'13"N; Lon.: 85°55'43" E; Alt.: 62 amsl.

Geographical position

Terai

Administrative feature

CDR; Dhanusha district; Janakpur Municipality; 9 ward; Kanyapathshala.

(Currently: Janakpurdam Municipality; Ward no. 9)

Boundary

Core Area: Settlement in east; Settlement in west: Settlement in south; Settlement in north.

Basin Area: Kanya pathshala School in east; settlement in west; Janakpur nath mahadev mandir in south; settlement in north.

Management Responsibility

Government (Janakpur Brihattar Kshetra)

Wetlands type

Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 40°C (Jun/Jul). Avg. Min.: - 5°C (Dec).

Physical feature

Area

Core Area: 1.70 ha; Avg. Length: 200m; 2 m; Avg. Width: 180 m; Avg. Depth: 9 m; Max-Min Surface Water Level: 6-9 m; Basin Area: 3 ha

### C. Hydrological feature

Water Volume

Peak Period: 324000 m<sup>3</sup>; Dry period: 0 m<sup>3</sup>; Inlet: tube wells and rainwater Discharge Rate: ...

Water quality

Physicochemical parameter: Temp.: 32 °C; pH: Blue litmus changes into red

Soil feature

Grey color, clay.

Shocks/vulnerability

None

### D. Biological feature

Major aquatic plants

Phytoplankton: Spirogyra sp Azolla sps Zooplankton: NA

Core Area: none

Major plants in basin

Ficus religiopsa (LN: Peepal; HT: Tr; Lu: Rel); Mangifera indica (LN: Mango; HT: Tr; Lu: Food); Madhuca longifolia (LN: Mewa;

	HT: Tr; LU: Food); <i>Cocus nucifera</i> (LN: Coconut; HT: Tr:LU: Food);
Fish	... (LN: Silver; N/C: 10; LU: Meat); ... (LN: Rahu; N/C: 8; LU: Meat); ... (LN: Naini; N/C: 3; LU: Meat); ... (LN: Bhyakur; N/C: 5; LU: Meat) ;(LN: Bighead; N/C: 5; LU: Meat) All species introduce.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Melanochelys spp.</i> (LN: Kachuwa); <i>Amphiesma spp.</i> (LN: Panisap); <i>Ptyas spp.</i> (LN: Dhaman)
Birds	<i>Casmerodius albus</i> (LN: Bakulla; LU: None); <i>Tachybaptus spp.</i> (LN: Silly; LU: None).
Mammals	NA
Invasive alien species	<u>Plants</u> : <i>Eichhornea sp</i> (LN: Jalkhumbi, CO: 1%); .... (LN: Mirchiya jhar, CO: 1 %). <u>Animals</u> : none
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : none
Abundance of plants	<u>Core Area</u> : none. <u>Basin Area</u> : <i>Cocus nucifera</i> (15%); <i>Mangifera indica</i> (2%); <i>Bambusa vulgaris</i> (1%) <i>Ficus religiopsa</i> (2%) <i>Madhuca longifolia</i> (1%)
Biomass in core area	none

## E. Socio-Economy at Basin

Nearby settlement	Kanya Campus chowk; 50 m from lake; Main road: Jqanakpur ring road.
Land use	Agriculture (10%); Settlement (85%); Wetlands (3%); Others (2%);
Demography	Population: 6546; Male: 3624; Female: 2922; HHs: 1204; <i>Brahmin/Chettri</i> (25%); <i>Janajati</i> (65%); <i>Dalit</i> (5%); <i>Others</i> (5%); Major Religion: Hindu; Major Dialect: Maithili).
Education	Primary level (98%); School level certificate (+2) (70%); University level (45%).
Occupation	Agriculture (25%); Employment (35%); Trade/Business (25%); Remittance (15%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	250 no.
Traditional production system	None.
Traditional water use practices	Community pond (1).
Cultural record	Lord Janakpur Nath Mahadevlives in lake area, mela parwa and worship in chhat, purnima etc.
Genesis/origin of lake	Historical and religious site, it was named Rukmini by the name of wife of god Bishnu. One of 52 pokhari at time of Ram Sita marriage.

## F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery; washing; cleaning etc.
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Cultural services

Religious site for Hindu; excursion site for students; local fair (hat-bazar) every 15 days during full-moon.

### **G. Restoration/Management**

Structural management

Dam.

Non-structural management

Informal restriction.

Conservation plan

Available.

Monitoring plan

None.

### **H. Tourism information**

>50000 annual visitors; good guest house-5; locally operated hotel-3; Hotel Management College in operation. Needs improvement in infrastructure and human resource.

### **I. Lake condition**

Good.

## 21. Singrahi Lake

Code: P2-D2-021

Toposheet no: 2685 08 B

Date of inventory: May 24, 2013

Compiler's name: Laxmi Awasthi



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°38' 08"N; <u>Long.</u> : 85°55' 39" E; <u>Alt.</u> : 49 amsl.
Geographical position	Terai
Administrative feature	CDR; Dhanusha district; Nagrain VDC; 1 ward; Nagrain (Currently: Nagrain Municipality; Ward no. 1)
Boundary	<u>Core Area</u> : Janakpur-Jatahi Road in east; Manggo garden in west; Agricultural land in south; Paglababa in north. <u>Basin Area</u> : Purnahi Pokhari in east; Agricultural land in west; Jatahi boarder police station in south; Haspatti tole in north.
Management Responsibility	Government (Rajeswar Nidhi Ma Vi Nagrain)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 40°C (Jun/Jul). <u>Avg. Min.</u> : 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 10 ha; Avg. Length: 350m; Avg. Width: 300 m; Avg. Depth: 5m; Max-Min Surface Water Level: 1.5 - 5 m; <u>Basin Area</u> : 400-500 ha.

### C. Hydrological feature

Water Volume	Peak Period: 525,000 m <sup>3</sup> ; Dry period: 500000 m <sup>3</sup> ; outlet: Not Found.
Water quality	<u>Physicochemical parameter</u> : Temp.: 25 °C; pH: 6.9;
Soil feature	Grey and dark color, sandy silt loam texture.
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : <i>Spirogyra sp</i> (300 ind./m <sup>2</sup> ), <i>Azolla sps</i> (100ind./m <sup>2</sup> ). <i>Hydrophyllum</i> (200ind/m <sup>2</sup> ) <i>Zooplankton</i> : NA <u>Core Area</u> : <i>Eichhornea sp</i> (HT: Sm, LU: Fd for pig).
Major plants in basin	<i>Papulus ciliaste</i> (LN: pipal; HT: Tr; LU: Tr); ..... (LN: Sami; HT: Tr; LU: Tm, Ful); ..... (LN: Ashoka; HT: Tr; LU: Ornamental); <i>Ficus bengelensis</i> (LN: Bar; HT: Tr; LU: Tm, resin); <i>Magnifera indica</i> (Ht: Tr, LU: Fr.); <i>Catatopsis giganata</i>



	(LN: AAnk; HT: sh; LU: Md), ..... (LN: Bamboo; HT: Sh; LU: Handicraft), <i>Dalbergia sisoo</i> (LN: Sisam; Ht: Tr; LU: Timber), (LN: Tadi; Ht: Tr; LU: Juice), (LN: Khajur; Ht: Tr; LU: Fr).
Fish	... (LN: Singi; N/C: 2; LU: Meat); ... (LN: Rahu; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 3; LU: Meat); ... (LN: Bhokada; N/C: 2; LU: Meat) ... (LN: kothiya; N/C: 2; LU: Meat) ... (LN: Mahara; N/C: 2; LU: Meat) ... (LN: Garahi; N/C: 2; LU: Meat) (LN: Garchulii; N/C: 2; LU: Meat) (LN: Katari; N/C: 2; LU: Meat) (LN: Silver carp; N/C: 2; LU: Meat). All species introduce.
Herpetofauna	<i>Rana spp.</i> (LN: <i>Bhyaguto</i> ); <i>Melanochelys spp.</i> (LN: <i>Kachuwa</i> ); <i>Amphiesma spp.</i> (LN: <i>Panisap</i> ); <i>Ptyas spp.</i> (LN: <i>Dhaman</i> )
Birds	<i>Pichnonothus sp.</i> (LN: Jureli; ON: 7; Migratory);
Mammals	<i>Funambulus spp.</i> (Squirrel, ON: 1); ... (Bat, ON: 2);
Invasive alien species	<u>Plants</u> : <i>Eupatorium sp</i> (LN: Banmara, CO: 30%); <i>Eichhornea sp</i> (LN: Jalkhumbi, CO: 40%); <i>Mikania macarant</i> (LN: ..., CO: 30 %). <u>Animals</u> : .....
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : <i>Nymphaea sp</i> (5%), <i>Eichhornea sp</i> (10%). <u>Basin Area</u> : <i>Papulus ciliaste</i> (10%); ....); Ashoka,(5%); <i>Magnifera indica</i> (45%), <i>Bamboo</i> (20%), <i>Other</i> (5%).

## E. Socio-Economy at Basin

Nearby settlement	Nagrain; 2km from lake; Main trail: janakpur –Jaleshwar Road.
Land use	Forest land (...); Shrub land (...); Grass land (5%); Agriculture (75%) Settlement (10%); Wetlands (5%); Others (5%).
Demography	Population: 2100; Male: 1000; Female: 1100; HHs: 450; <i>Brahmin/Chettri</i> (60%); <i>Janajati</i> (20%); <i>Dalit</i> (10%); <i>Others</i> (10%); Major Religion: Hindu; Major Dialect: Maithali).
Education	Primary level (95%); School level certificate (+2) (85%); University level (60%).
Occupation	Agriculture (70%); Employment (15%); Trade/Business (5%); Remittance (10%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	50 no.
Traditional production system	None.
Traditional water use practices	Community pond (4).
Cultural record	None
Genesis/origin of lake	NA

## F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery; fuelwood; fodder/forage
Cultural services	None

## **G. Restoration/Management**

Structural management                      None

Non-structural management                Informal restriction.

Conservation plan                            None

Monitoring plan                              None.

## **H. Tourism information**

>None. Needs improvement in infrastructure and human resource.

## **I. Lake condition**

Degrading.

## 22. Subbaji Pokhari

Code: P2-D2-020

Toposheet no: 2685-08 B

Date of inventory: May 25 2013

Compiler's name: Bina Dangol



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°43'19"N; <u>Lon.</u> : 85°58'11 "E; <u>Alt.</u> : 68amsl.
Geographical position	Terai
Administrative feature	CDR; Dhanusha district; Kankpati VDC, ward.no 4; Kankpati (Currently: Janakpurdham Municipality; Ward no. 17)
Boundary	<u>Core Area</u> : Grassland in north and south, road in west and barren land in east <u>Basin Area</u> : Settlement in west, Agriculture in north and south and VDC office in east
Management Responsibility	School (Shree Ra. Pra School, Kanakpati)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 43 °C (Jun/Jul). <u>Avg. Min.</u> : 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 5 ha; Avg. Length: 300m; Avg. Width: 250m; Avg. Depth: 2.3m; Max-Min Surface Water Level: 4–2.3m

### C. Hydrological feature

Water Volume	Peak Period: 172500m <sup>3</sup> ; Outflow: kulo
Water quality	<u>Physicochemical parameter</u> : Temp.: 27 °C; Soil feature: Grey color; Sandy loam
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	Phytoplankton: None; Zooplankton: None Core Area: Hydrophyllum (LN: None; HT: Ff; LU: None); Water hycinth (LN: Jalakumbhi; HT: Ff; LU: None) ;(Basin area: (LN: Ashoka; HT: Tr; Lu: Tm) .....Ficus religiopsa (LN: Peepal; HT: Tr; Lu: Rel)
Fish	(Introduced) Labio rohita (LN: Rohu; LU: meat); Hypophthalmic molitrix (LN: Silver; LU: meat); ... (LN: Israil; LU: meat); ... (LN: Bigred; LU: Meat); Ctenoharyngodon idella (LN: Grass carp; LU: meat); ..... (LN: Chhadi; LU: meat); (LN: Naini; LU: Meat)

Herpetofauna	<i>Rana spp. (LN: Bhyaguto); Melanochelys spp. (LN: Kachuwa); Amphiesma spp. (LN: Panisap); Ptyas spp. (LN: Dhaman)</i>
Birds	<i>Casmerodius albus (LN: Bakulla; ON:2; LU: None)</i>
Mammals	NA
Invertebrates	NA
Invasive alien species	None
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : <i>Eichorrnea</i> (90%); <i>Hydrophyllum</i> (7%); <u>Basin Area</u> : <i>Hydrophyllum</i> (10%); <i>Ficus religiosa</i> (4%); Karkalo (1%)
Biomass in core area	None

### **E. Socio-Economy at Basin**

Nearby settlement	
Land use	Settlement -95%; Lake-5%
Demography	Population: 800; Male:350; Female: 450; HHs: 100; (NPHC 2011) <i>Brahmin/Chettri</i> (10%); <i>Janajati</i> (40%); <i>Dalit</i> (30%); Major Religion: Hindu; Major Dialect: Maithali)
Education	Primary level (90%); School level certificate (+2) (30%); University level (10%).
Occupation	Agriculture 58%; Employment (5%); Fishing (5%); Trade and business (2%); Wages/labor (20%); Remittance (10%).
Jurisdiction/ownership	State
Wetlands dependent community	None
Livestock at basin	<i>Bos taurus</i> (LN: Cow; ON:2; LU: Domestication); <i>Capra argagrus</i> (LN: Goat; LU: Domestication)
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	None

### **F. Ecosystem Goods/Services**

Provisional services	Fish supply
Cultural services	None

### **G. Restoration/Management**

Structural management	None
Non-structural management	None
Conservation plan	None
Monitoring plan	None.

**H. Tourism information** None

**I. Lake condition** Good

## 23. Tarahi Pokhari (Laksman Sar)

Code: P2-D2-023

Toposheet no: 2685-08 B

Date of inventory: May 23 2013

Compiler's name: Bina Dangol



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°43'58"N; <u>Lon.</u> : 85°55'45 "E; <u>Alt.</u> : 60amsl.
Geographical position	Terai
Administrative feature	CDR; Dhanusha district; Municipality, ward no 03; Laksham akhada (Currently: Janakpurdham Municipality; Ward no. 10)
Boundary	Core Area: road in east and south and dumping site in north and west. Basin Area: Settlement in west, north, south and east
Management Responsibility	None (lake is fully covered by water hyacinth and it is treated as waste dumping site)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 40 °C (Jun/Jul). <u>Avg. Min.</u> : 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 2.5 ha; Avg. Length: 150m; Avg. Width: 100m; Avg. Depth: 1.5m; Max-Min Surface Water Level: 1.8–2.7m;

### C. Hydrological feature

Water Volume	Peak Period: 22500m <sup>3</sup>
Water quality	<u>Physicochemical parameter</u> : Temp.: 28 °C; Soil feature: Grey color; Sandy loam
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	Phytoplankton: None; Zooplankton: None Core Area: Hydrophyllum (LN: None; HT: Ff; LU: None); Water hyacinth (LN: Jalakumbhi; HT: Ff; LU: None) ;(Basin area: (LN: Ashoka; HT: Tr; Lu: Tm) .....Ficus religiopsa (LN: Peepal; HT: Tr; Lu: Rel)
Fish	None
Herpetofauna	(LN: saap: LU: None)

Birds	<i>Casmerodius albus</i> (LN: Bakulla; ON:2; LU: None)
Mammals	None
Invertebrates	None
Invasive alien species	None
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : <i>Eichorrnea</i> (90%); <i>Hydrophyllum</i> (7%); <u>Basin Area</u> : <i>Hydrophyllum</i> (5%); Pipariya (4%); Karkalo (1%)
Biomass in core area	None

### **E. Socio-Economy at Basin**

Nearby settlement	
Land use	Settlement -95%; Lake-5%
Demography	Population: 2100; Male:1000; Female: 1100; HHs: 300; <i>Brahmin/Chettri</i> (10%); <i>Janajati</i> (70%); <i>Dalit</i> (40%); Major Religion: Hindu; Major Dialect: Maithali
Education	Primary level (100%); School level certificate (+2) (60%); University level (40%).
Occupation	Agriculture 5%); Employment (20%); Fishing (5%); Trade and business (40%); Wages/labor (20%); Remittance (10%).
Jurisdiction/ownership	State
Wetlands dependent community	None
Livestock at basin	<i>Bos taurus</i> (LN: Cow; ON:2; LU: Domestication); <i>Capra argagrus</i> (LN: Goat; LU: Domestication)
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	None

### **F. Ecosystem Goods/Services**

Provisional services	Fish supply
Cultural services	None

### **G. Restoration/Management**

Structural management	None
Non-structural management	None
Conservation plan	None
Monitoring plan	None.

<b>H. Tourism information</b>	None
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<b>I. Lake condition</b>	Degrading.
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## Annex-19: Inventory of lakes in Mahottari district

### 1. Bramhasthan Pokhari

Code: P2-D3-001

Toposheet no: 2685-08A

Date of inventory: May 27, 2013

Compiler's name: Sudha Rimal



#### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°39.566'N; <u>Lon.</u> : 85°46.706'E; <u>Alt.</u> : 76amsl.
Geographical position	Tarai
Administrative feature	CDR; Mahottari district; Ankar VDC; Ward no. 5; Ankar. (Currently: Jaleswor Municipality; Ward no. 7)
Boundary	<u>Core Area</u> : settlement in west; settlement and in east; Road in south; agriculture land in north. <u>Basin Area</u> : Banana Farm in west; Settlement in east: Agricultural Land in south; Agricultural Land in north.
Management Responsibility	Government (Managed by VDC)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 41°C (Jun/Jul). <u>Avg. Min.</u> : 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 1.5 ha; Avg. Length: 150m; Avg. Width: 40m; Avg. Depth: 3m; Max-Min Surface Water Level: 2-3m

#### C. Hydrological feature

Water Volume	Peak Period: 18 000 m <sup>3</sup> ; Dry period: 12 000 m <sup>3</sup> ; Inlet: none; Discharge Rate: NA
Water quality	<u>Physicochemical parameter</u> : Temp.: 27 °C;
Soil feature	Grey Color with Clay loam texture
Shocks/vulnerability	NA

#### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : Spirogyra sp (100ind./m <sup>2</sup> ), <u>Zooplankton</u> : NA Core Area: Eichhornea sp (HT: FI, LU: None).
Major plants in basin	.... (LN: Sarbada Phool; HT: Tr; LU: Worship); .....(LN: Sisau; HT: TR; LU: Tr); .... (LN: Banana; HT: Tr; LU: Fruit); .... (LN:

	Mirchaiya; HT: Gr; LU: Ful); .....(LN: Karkalo; HT: Sh: LU: Curry)
Fish	... (LN: Kothre; N/C: 2; LU: Meat); ... (LN: Common Carp; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 2; LU: Meat); ... (LN: Siver; N/C: 5; LU: Meat); .... (LN: Buhari; LU: Meat); ... (LN: Chiruwat; LU: Meat); .... (LN: Bidari; LU: Meat) All species introduce.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Melanochelys spp.</i> (LN: Kachuwa); <i>Amphiesma spp.</i> (LN: Panisap); <i>Ptyas spp.</i> (LN: Dhaman)
Birds	<i>Corvus spp.</i> (Crow: ON: 5; LU None)
Mammals	(Cow; ON:5; Local); (Goat; ON: 10; Local); (Buffalo; ON: 10: Local)
Invertabrates	<i>Rana spp.</i> (LN: Bhyaguto); <i>Melanochelys spp.</i> (LN: Kachuwa); <i>Amphiesma spp.</i> (LN: Panisap); <i>Ptyas spp.</i> (LN: Dhaman)
Invasive alien species	<i>Eichorrnea</i>
Endemic plant/animal	NA
Abundance of plants	<u>Core Area</u> : <i>Eichorrnea</i> (2%), <i>Open water surface</i> (98%) <u>BasinArea</u> : Banana (60%); Karkalo (5%); Sisau (20%); Others (15%)
Biomass in core area	NA

### E. Socio-Economy at Basin

Nearby settlement	Ankar; 2 minutes from lake, Agleswor.
Land use	Forest land (0%); Shrub land (0%); Grass land (10%); Agriculture (25%); Settlement (70%); Wetlands (5%); Others (0%);
Demography	Population:700; Male:300; Female:400; HHs:55; <i>Brahmin/Chettri</i> (80%); <i>Janajati</i> (13%); <i>Dalit</i> (5%); <i>Others</i> (2%); Major Religion: Hindu; Major Dialect: Maithali).
Education	Primary level (50%); School level certificate (+2) (20%); University level (2%).
Occupation	Agriculture (100%); Employment (Negligible); Trade/Business (Negligible); Fishing (0%); Wages/labor (80%); Remittance 5%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	None.
Traditional production system	None.
Traditional water use practices	Community pond (1).
Cultural record	None.
Genesis/origin of lake	NA

### F. Ecosystem Goods/Services

Provisional services	NA
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Cultural services NA

**G. Restoration/Management**

Structural management NA

Non-structural management None

Conservation plan NA

Monitoring plan NA

**H. Tourism information** NA

**I. Lake condition** Degrading.

## 2. Dami Madai Pokhari

Code: P2-D3-002

Toposheet no: N/A

Date of inventory: May 25 2013

Compiler's name: Bina Dangol



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26°41'82"N; <u>Lon.</u> : 85°48'25 "E; <u>Alt.</u> : 44 amsl.
Geographical position	Terai
Administrative feature	CDR; Mahottari district; Dami VDC; ward no 07; Dami madai (Currently: Mahottari Rural Municipality; Ward no. 3)
Boundary	<u>Core Area</u> : Grassland in west and south, barren land in east and north. <u>Basin Area</u> : Agriculture in west, south and north and settlement in east
Management Responsibility	School (Shree Janata Sec.school)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 41°C (Jun/Jul). <u>Avg. Min.</u> : 4°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 2 ha; Avg. Length: 100m; Avg. Width: 100m; Avg. Depth: 2m; Max-Min Surface Water Level: 1.8–2.7m;

### C. Hydrological feature

Water Volume	Peak Period: 20000m <sup>3</sup>
Water quality	<u>Physicochemical parameter</u> : Temp.: 28 °C; Soil feature: Grey color; Sandy loam
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : <i>Spirogyra</i> , <i>Nostoc</i> <u>Zooplankton</u> : None <u>Core Area</u> : <i>Hydrophylum</i> (LN: None; HT: Ff; LU: None); <i>Water hyacinth</i> (LN: Jalakumbhi; HT: Ff; LU: None) ;( <u>Basin area</u> : <i>Mangifera indica</i> (LN: Mango; HT: Tr; Lu: Food) ..... <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; Lu: Rel) .....;(LN: Mirchaiya; HT: Sh; LU: None)
Fish	(Introduced) <i>Labio rohita</i> (LN: Rohu; LU: meat); Hypophthalmic molitrix (LN: Silver; LU: meat); ... (LN: Israil; LU: meat); ... (LN: Bigred; LU: Meat); Ctenoharyngodon idella

	(LN: Grass carp; LU: meat); ..... (LN: Pothi; LU: meat); (LN: Naini; LU: Meat); .....(LN: Mara; LU: Meat)
Herpetofauna	.... (LN: saap:LU: None); (LN: Frog; LU: none) ;(LN: Tortoise; LU: none)
Birds	<i>Casmerodius albus</i> (LN: Bakulla; ON:2; LU: None) ;(LN: Crane; LU: None) ;(LN: Garud; LU: None); ... (LN: waterfowl; LU: None)); (LN: Garud; LU: None)
Mammals	None
Invertebrates	..... (LN: Snail; LU: None); .....(LN: Dragon fly; LU: None)
Invasive alien species	None
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : Water hycinth (negligible); Hydrophylum (negligible); <u>Basin Area</u> : Hydrophylum (5%); Pipariya (4%); Mirchaiya (2%)Karkalo (1%) <i>Cynodon</i> (1%)
Biomass in core area	None

### E. Socio-Economy at Basin

Nearby settlement	
Land use	Forest land-5%; Shrub land-5%; Grass land-15%; Agriculture -40%; Lake-35%
Demography	Population: 823; Male:417; Female: 405; HHS: 121; (NPHC 2011) <i>Brahmin/Chettri</i> (2.9%); <i>Janajati</i> (31.5%); <i>Dalit</i> (1.7%); <i>Others</i> (26.4%); MAJOR Religion: Hindu; Major Dialect: Maithali)
Education	Primary level (90%); School level certificate (+2) (15%); University level (5%).
Occupation	Agriculture (80%); Employment (10%); Fishing (5%); Trade and business (5%)
Jurisdiction/ownership	State
Wetlands dependent community	Malaha community; Population HH:1042; Distance :1.5km; Literacy:50%; Annual income:150000
Livestock at basin	<i>Bos Taurus</i> (LN: Cow; ON:2; LU: Domestication); <i>Bubulus bubalis</i> (LN: Buffalo; ON: 1; LU: Domestication); <i>Capra argagrus</i> (LN: Goat; LU: Domestication)

Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	None

### F. Ecosystem Goods/Services

Provisional services	Fish supply
Cultural services	None

### G. Restoration/Management

Structural management	None
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Non-structural management	None
Conservation plan	None
Monitoring plan	None.
<b>H. Tourism information</b>	None
<b>I. Lake condition</b>	Degrading.

### 3. Gotman Sagar

Code: P2-D3-003

Toposheet no: 2685 08 B

Date of inventory: May 25, 2013

Compiler's name: Laxmi Awasthi



#### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°49' 49"N; <u>Long.</u> : 85°48' 08" E; <u>Alt.</u> : 31 amsl.
Geographical position	Terai
Administrative feature	CDR; Mahottari district; Jaleshwar Municipality; 07 ward; Bajrahi (Currently: Ramgopalur Municipality; Ward no. 5)
Boundary	<u>Core Area</u> : Bamboo tree in east; foot trail in west; Agricultural land south; Settlement north. <u>Basin Area</u> : Agriculture land in east; Settlement in west; Agricultural land in south; Agriculture land in north.
Management Responsibility	Government (Jaleshwar Municipality)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max. Temp.</u> : 42°C (Jun/Jul). <u>Avg. Min.</u> : - 9°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 2 ha; Avg. Length: 200m; Avg. Width: 100 m; Avg. Depth: 3m; Max-Min Surface Water Level: 1.5 - 3 m; <u>Basin Area</u> : 10-15 ha

#### C. Hydrological feature

Water Volume	Peak Period: 60000 m <sup>3</sup> ; Dry period: 50000 m <sup>3</sup> ; Inlet: outlet: None
Water quality	<u>Physicochemical parameter</u> : Temp.: 25 °C; pH: 6.9; Soil feature Grey and dark color, Loamy Sand texture.
Shocks/vulnerability	None

#### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : Spirogyra sp (400 ind./m <sup>2</sup> ), Azolla sps (500 ind./m <sup>2</sup> ). <u>Zooplankton</u> : NA <u>Core Area</u> : <i>Eichhornea sp</i> (HT: Sm, LU: Fd for pig). <i>Hydrophyllum</i> , <i>Graminae Sps</i> .
Major plants in basin	<i>Papulus ciliaste</i> (LN: pipal; HT: Tr; LU: Tr); <i>Ficus bengelensis</i> (LN: Bar; HT: Tr; LU: Tm, resin); <i>Magnifera indica</i> ... (LN: Aap, HT: Tr, LU: Fr), <i>Cocos spp.</i> (LN: Coconut, HT: Sh, LU: Fr), (LN: Amba, HT: Tr, LU: Fr), <i>Dalbergia sissoo</i> (LN: Sisam, Ht: Tr, LU;

	Tr), (LN: Besaram, Ht: Sh, LU: forage), (LN: Bamboo, HT: Ss, Lu: handocrft)
Fish	... (LN: Singi; N/C: 2; LU: Meat); ... (LN: Rahu; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 3; LU: Meat); ... (LN: Bhokada; N/C: 2; LU: Meat) ... (LN: kothiya; N/C: 2; LU: Meat) ... (LN: Mahara; N/C: 2; LU: Meat) ... (LN: Garahi; N/C: 2; LU: Meat) (LN: Garchulii; N/C: 2; LU: Meat) (LN: Katari; N/C: 2; LU: Meat) (LN: Silver carp; N/C: 2; LU: Meat). All species introduce.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Melanochelys spp.</i> (LN: Kachuwa); <i>Amphiesma spp.</i> (LN: Panisap); <i>Ptyas spp.</i> (LN: Dhaman)
Mammals	Birds Pichnonothus sp. (LN: Jureli; ON: 7; Migratory); ..... (White-crested Laughing Thrush, ON: 1); <i>Corvus spp.</i> (Crow, On:10) <i>Alcedo spp.</i> (Kingfisher, ON:1).
Invasive alien species	Funambulus spp. (Squirrel, ON: 1); Plants: <i>Eupatorium sp</i> (LN: Banmara, CO: 5%); <i>Eichhornea sp</i> (LN: Jalkhumbi, CO: 30%); <i>Mikania macarant</i> (LN: ..., CO: 50 %). Animals: .....
Endemic plant/animal	Plant: None. Animal: None
Abundance of plants	<u>Core Area:</u> <i>Nymphaea sp</i> (5%), <i>Eichhornea sp</i> (30%). <u>Basin Area:</u> <i>Papulus ciliaste</i> (5%); ..... <i>Mangifera indica</i> (40%) , <i>Bamboo</i> (20%), <i>Dalbergia sissoo</i> (15%), <i>Azadirachata indica a.juss.</i> (30%),

## E. Socio-Economy at Basin

Nearby settlement	Bajarahi; 100m from lake; Main trail: janakpur Ramgopalpur Road.
Land use	Forest land (...); Shrub land (...); Grass land (...); Agriculture (60%) Settlement (35%); Wetlands (3%); Others (2%);
Demography	Population: 65; Male: 30; Female: 35; HHS: 12; Brahmin/Chettri (80%); Janajati (10%); Dalit (5%); Others (5%); Major Religion: Hindu; Major Dialect: Maithali).
Education	Primary level (60%); School level certificate (+2) (30%); University level (10%).
Occupation	Agriculture (85%); Employment (5%); Trade/Business (5%); Remittance (5%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	50 no.
Traditional production system	None.
Traditional water use practices	Community pond (2).
Cultural record	None
Genesis/origin of lake	NA

## F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery; fuelwood; fodder/forage
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Cultural services None

**G. Restoration/Management**

Structural management None

Non-structural management Informal restriction.

Conservation plan None

Monitoring plan None.

**H. Tourism information**

None. Needs improvement in infrastructure and human resource.

**I. Lake condition**

Degrading.

#### 4. Mahadev Pokhari

Code: P2-D3-004

Toposheet no: 2685 08 A

Date of inventory: May 25, 2013

Compiler's name: Laxmi Awasthi



##### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26°35' 07"N; <u>Long.</u> : 85°48' 30" E; <u>Alt.</u> : 42 amsl.
Geographical position	Terai
Administrative feature	CDR; Mahottari district; Jaleshwar Municipality; 7 ward; Nagarpalika chock. (Currently: Jaleshwar Municipality; Ward no. 1)
Boundary	<u>Core Area</u> : Water tank east; paved land in west; Settlement in south; Community House in north. <u>Basin Area</u> : settlement in east; Jaleshar mahedev Temple in west; Jaleshwar Bazar in south; agriculture land in north.
Management Responsibility	Government (.....)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

##### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 42°C (Jun/Jul). <u>Avg. Min.</u> : - 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 4 ha; Avg. Length: 290m; Avg. Width: 140 m; Avg. Depth: 2.5m; Max-Min Surface Water Level: 1.5 – 3 m; <u>Basin Area</u> : 10-12 ha

##### C. Hydrological feature

Water Volume	Peak Period: 120000 m <sup>3</sup> ; Dry period: 90000 m <sup>3</sup> ; Inlet: No Specified inlet and in rainy season water collected from basin area: ... Discharge Rate: 1000 lts/s; outlet: None
Water quality	<u>Physicochemical parameter</u> : Temp.: 25 °C; pH: 6.9; Soil feature Grey and dark color, sandy silt loam texture.
Shocks/vulnerability	.....

##### D. Biological feature

Major aquatic plants	Phytoplankton: Spirogyra sp (500 ind./m <sup>2</sup> ), Azolla sps (100ind./m <sup>2</sup> ). Zooplankton: NA Core Area: Eichhornea sp (HT: Sm, LU: Fd for pig).
Major plants in basin	Papulus ciliaste (LN: pipal; HT: Tr; LU: Tr); ..... (LN: Ashoka; HT: Tr; LU: Ornamental;)Ficus bengelensis (LN: Bar; HT: Tr;



	LU: Tm, resin); <i>Magnifera indica</i> ... (LN: Aap, HT: Tr, LU: Fr), ..... (LN: Coconut, HT: Sh, LU: Fr)
Fish	... (LN: Singi; N/C: 2; LU: Meat); ... (LN: Rahu; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 3; LU: Meat); ... (LN: Bhokada; N/C: 2; LU: Meat) ... (LN: kothiya; N/C: 2; LU: Meat) ... (LN: Mahara; N/C: 2; LU: Meat) ... (LN: Garahi; N/C: 2; LU: Meat) (LN: Garchulii; N/C: 2; LU: Meat) (LN: Katari; N/C: 2; LU: Meat) (LN: Silver carp; N/C: 2; LU: Meat). All species introduce.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Melanochelys spp.</i> (LN: Kachuwa); <i>Amphiesma spp.</i> (LN: Panisap); <i>Ptyas spp.</i> (LN: Dhaman)
Birds	<i>Pichnonothus sp.</i> (LN: Jureli; ON: 7; Migratory); ..... (White-crested Laughing Thrush, ON: 1); ..... (Blue- Throated Barbet, ON: 1); ... (Crowned Pigmy Woodpecker, ON: 1), .... (Kingfisher, ON:2)
Mammals	NA
Invasive alien species	<u>Plants</u> : <i>Eupatorium sp</i> (LN: Banmara, CO: 10%); <i>Eichhornea sp</i> (LN: Jalkhumbi, CO: 20%); <i>Mikania macarant</i> (LN: ..., CO: 30 %). <u>Animals</u> : .....
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : <i>Nymphaea sp</i> (5%), <i>Eichhornea sp</i> (20%). <u>Basin Area</u> : <i>Papulus ciliaste</i> (20%); ..... Ashoka,(5%); <i>Ficus bengelensis</i> (1%) <i>Magnifera indica</i> (40%),...(Coconut 10%)

## E. Socio-Economy at Basin

Nearby settlement	Jaleshwar Bajar; 100m from lake; Main trail: Jaleshwar-Ramgopalpur Road.
Land use	Forest land (...); Shrub land (...); Grass land (...); Agriculture (30%) Settlement (60%); Wetlands (5%); Others (5%);
Demography	Population: 7050; Male: 3480; Female: 3570; HHs: 1500; <i>Brahmin/Chettri</i> (60%); <i>Janajati</i> (15%); <i>Dalit</i> (15%); <i>Others</i> (10%); Major Religion: Hindu; Major Dialect: Maithali).
Education	Primary level (90%); School level certificate (+2) (80%); University level (60%).
Occupation	Agriculture (35%); Employment (25%); Trade/Business (25%); Remittance (15%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	30 no.
Traditional production system	None. NTFPs: Amlisho.
Traditional water use practices	None
Cultural record	.....
Genesis/origin of lake	NA

## F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery; fuelwood; fodder/forage
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Cultural services

Historic site for Hindu Community; excursion site for students;  
Swimming place for Hindu prayer.

### **G. Restoration/Management**

Structural management

Wall, Embankments

Non-structural management

Informal restriction.

Conservation plan

Available.

Monitoring plan

None.

### **H. Tourism information**

>50000 annual visitors; good guest house-4; locally operated  
hotel-6; Hotel Management College in operation. Needs  
improvement in infrastructure and human resource.

### **I. Lake condition**

Degrading.

## 5. Naini Pokhari

Code: P2-D3-005

Toposheet no: N/A

Date of inventory: May 26, 2013

Compiler's name: Sudha Rimal



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26°38'45"N; <u>Lon.</u> : 85°45'41" E; <u>Alt.</u> : 52amsl.
Geographical position	Tarai
Administrative feature	CDR; Mahottari district; Naini VDC; Ward no. 2; Ranibazar. (Currently: Jaleswor Municipality; Ward no. 12)
Boundary	<u>Core Area</u> : Settlement in west; Agricultural Land in east; Manipal Hospital in south; Temple in north. <u>Basin Area</u> : School in west; Settlement with road in east; Settlement in south; Settlement in north.
Management Responsibility	Government (Managed by Community)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 25°C (Jun/Jul). <u>Avg. Min.</u> : - 4°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 2 ha; Avg. Length: 150m; Avg. Width: 80m; Avg. Depth: 2.5; Max-Min Surface Water Level: No change

### C. Hydrological feature

Water Volume	Peak Period: 30 000 m <sup>3</sup> Inlet: none; Discharge Rate: NA
Water quality	<u>Physicochemical parameter</u> : Temp.: 29 °C;
Soil feature	Grey Colour with Clay loam texture
Shocks/vulnerability	NA

### D. Biological feature

Major aquatic plants	Phytoplankton: Spirogyra sp (100 ind./m <sup>2</sup> ), Zooplankton: NA Core Area: Eichhornea sp (HT: Sm, LU: None).
Major plants in basin	.... (LN: Banana; HT: Tr; LU: fruit); Mangifera indica (LN: Aam; HT: TR; LU: Fruit); Eucalyptus spp (LN: Masala; HT: Tr; LU: Tr); .... (Mirchaiya: HT: Gr; LU: Ful)

Fish	... (LN: Kothre; N/C: 2; LU: Meat); ... (LN: Common Carp; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 2; LU: Meat); ... (LN: Siver; N/C: 5; LU: Meat). All species introduce.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Melanochelys spp.</i> (LN: Kachuwa); <i>Amphiesma spp.</i> (LN: Panisap); <i>Ptyas spp.</i> (LN: Dhaman)
Birds	..... (LN: Bakulla; ON:2; Migratory); (Crow: ON: 5; LU: None); (Pigeon: ON: 2; LU: None)
Mammals	(Cow; ON:5; Local); (Goat; ON: 10; Local); (Buffalo; ON: 10; Local)
Invertabrates	dragon fly, snail, earthworm
Invasive alien species	NA
Endemic plant/animal	NA
Abundance of plants	Core Area: Water Hycinth (10%), Open water surface (90%) Basin <u>Area</u> : Banana (25%); Vicks (7%)

### E. Socio-Economy at Basin

Nearby settlement	Naini Gaun; 2 km from lake
Land use	Forest land (0%); Shrub land (0%); Grass land (10%); Agriculture (90%); Settlement (9%); Wetlands (1%); Others (0%);
Demography	Population: 350; Male: 150; Female: 200; HHs: 55; <i>Brahmin/Chettri</i> (80%); <i>Janajati</i> (13%); <i>Dalit</i> (5%); <i>Others</i> (2%); Major Religion: Hindu; Major Dialect: Nepali).
Education	Primary level (80%); School level certificate (+2) (50%); University level (10%).
Occupation	Agriculture (90%); Employment (20%); Trade/Business (5%); Fishing (5%); Wages/labor (80%); Remittance 75%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	.... (Cow; ON: 2; LU: Domestication); .... (Buffalo; ON: 5; LU: Domestication)
Traditional production system	None
Traditional water use practices	Community pond (1).
Cultural record	None
Genesis/origin of lake	During the marriage of Ram and Sita, their leg was cleaned by the water of the very pond.

### F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery
Cultural services	NA

### **G. Restoration/Management**

Structural management NA

Non-structural management None

Conservation plan NA

Monitoring plan NA

**H. Tourism information** NA

**I. Lake condition** Degrading.

## 6. Purni Pokhari

Code: P2-D3-006

Toposheet no: 2685 08 A

Date of inventory: May 26, 2013

Compiler's name: Laxmi Awasthi



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°38' 03"N; <u>Long.</u> : 85°437' 28" E; <u>Alt.</u> : 43 amsl.
Geographical position	Terai
Administrative feature	CDR; Mahottari district; Jaleshwar Municipality; 11 ward; khaira (Currently: Jaleshwar Municipality; Ward no. 3)
Boundary	<u>Core Area</u> : Pipal Cautari in east; school in west; Agricultural land south; Ag land north. <u>Basin Area</u> : settlement in east; Agricultural land west; Agricultural land in south; Agricultural land in north.
Management Responsibility	Government (Janata Pra. Vi. Khaira)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 42°C (Jun/Jul). <u>Avg. Min.</u> : - 9°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 4 ha; Avg. Length: 250m; Avg. Width:150 m; Avg. Depth: 3m; Max-Min Surface Water Level: 1.5 - 3 m; <u>Basin Area</u> : 10-15 ha

### C. Hydrological feature

Water Volume	Peak Period: 120000 m <sup>3</sup> ; Dry period: 10000 m <sup>3</sup> ; Inlet: outlet: Small Drainage North.
Water quality	<u>Physicochemical parameter</u> : Temp.: 25 °C; pH: 6.9; Soil feature Grey and dark color, Sandy Loam texture.
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	Phytoplankton: Spirogyra sp (100 ind./m <sup>2</sup> ), Azolla sps (50ind./m <sup>2</sup> ). Zooplankton: NA Core Area: Eichhornea sp (HT: Sm, LU: Fd for pig).
Major plants in basin	Papulus ciliaste (LN: pipal; HT: Tr; LU: Tr); ..... (LN: Ashoka; HT: Tr; LU: Ornamental;)Ficus bengelensis (LN: Bar; HT: Tr; LU: Tm, resin); <i>Magnifera indica</i> ... (LN: Aap, HT: Tr, LU: Fr),

	..... (LN: Coconut, HT: Sh, LU: Fr), (LN: Amba, HT: Tr, LU: Fr), Dalbergia sissoo (LN: Sisam, Ht: Tr, LU; Tr), (LN: Besaram, Ht: Sh, LU: forage), Azadirachata indica a. juss (LN: Neem; HT: TR. LU: Md), (LN: Kadam, Ht: Tr, LU: Tr/Ful), (LN: Bamboo, HT: Ss, Lu: handocrft)
Fish	... (LN: Singi; N/C: 2; LU: Meat); ... (LN: Rahu; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 3; LU: Meat); ... (LN: Bhokada; N/C: 2; LU: Meat) ... (LN: kothiya; N/C: 2; LU: Meat) ... (LN: Mahara; N/C: 2; LU: Meat) ... (LN: Garahi; N/C: 2; LU: Meat) (LN: Garchulii; N/C: 2; LU: Meat) (LN: Katari; N/C: 2; LU: Meat) (LN: Silver carp; N/C: 2; LU: Meat). All species introduce.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Melanochelys spp.</i> (LN: Kachuwa); <i>Amphiesma spp.</i> (LN: Panisap); <i>Ptyas spp.</i> (LN: Dhaman)
Birds	<i>Pichnonothus sp.</i> (LN: Jureli; ON: 7; Migratory);
Mammals	<i>Funumbulus spp.</i> (Squirrel, ON: 1); ... (Bat, ON: 1); ...
Invasive alien species	<u>Plants</u> : <i>Eupatorium sp</i> (LN: Banmara, CO: 5%); <i>Eichhornea sp</i> (LN: Jalkhumbi, CO: 20%); <i>Mikania macarant</i> (LN: ..., CO: 50 %). <u>Animals</u> : .....
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : <i>Nymphaea sp</i> (5%), <i>Eichhornea sp</i> (30%). <u>Basin Area</u> : <i>Papulus ciliaste</i> (5%); ..... <i>Mangifera indica</i> ( 40%) , <i>Bamboo</i> (20%), <i>Dalbergia sissoo</i> (30%), <i>Azadirachata indica a.juss.</i> (50%), <i>Kadam</i> (5%)

## E. Socio-Economy at Basin

Nearby settlement	Khaira 100m from lake; Main trail: Jaleshwar-Ramgopalpur Road.
Land use	Forest land (...); Shrub land (...); Grass land (5%); Agriculture (50%) Settlement (40%); Wetlands (3%); Others (2%);
Demography	Population: 55; Male: 22; Female: 33; HHS: 10; Brahmin/Chettri (5%); Janajati (80%); Dalit (10%); Others (5%); Major Religion: Hindu; Major Dialect: Maithali).
Education	Primary level (90%); School level certificate (+2) (65%); University level (10%).
Occupation	Agriculture (90%); Employment (2%); Trade/Business (3%); Remittance (5%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	100 no.
Traditional production system	None.
Traditional water use practices	Community pond (3).
Cultural record	None
Genesis/origin of lake	NA

## **F. Ecosystem Goods/Services**

Provisional services	Water for livestock; fishery; fuelwood; fodder/forage
Cultural services	None

## **G. Restoration/Management**

Structural management	None
Non-structural management	Informal restriction.
Conservation plan	Available.
Monitoring plan	None.

## **H. Tourism information**

None. Needs improvement in infrastructure and human resource.

## **I. Lake condition**

Degrading.



## 7. Rani Pokhari

Code: P2-D3-002

Toposheet no: 2685 08 A

Date of inventory: May 28, 2013

Compiler's name: Dhruva Acharya



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 20°40.877 N; <u>Lon.</u> : 85°47.723 E; <u>Alt.</u> : 36 amsl.
Geographical position	Terai
Administrative feature	CDR; Mahottari district; Dami Madai; 8 and 9 ward; Rani Ratawara. (Currently: Mahottari Rural Municipality; Ward no. 4)
Boundary	<u>Core Area</u> : Aggricultural land in east, north and south; settlement in west. <u>Basin Area</u> : Aggricultural land in east; Rani Ratawara in west: Laxmi narayan temple in south; Settlement in north.
Management Responsibility	Government (Jaleswor Guthi)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 40°C (Jun/Jul). <u>Avg. Min.</u> : - 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 3 ha; Avg. Length: 350m; Avg. Width: 300 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 1.5-3 m; <u>Basin Area</u> : 3 ha

### C. Hydrological feature

Water Volume	Peak Period: 31500 m <sup>3</sup> ; Dry period: 15750 m <sup>3</sup> ; Inlet: none Outlet: none
Water quality	<u>Physicochemical parameter</u> : Temp.: 28 °C; pH: Blue litmus changes into red
Soil feature	Grey color, sandy clay.
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	Phytoplankton: Spirogyra sp Azolla sps Zooplankton: NA Core Area: none
Major plants in basin	<i>Cynodon dactylon</i> (LN: <i>Dubo</i> ; HT; Hb:LU: <i>Relegious</i> ) <i>Ficus religiopsa</i> (LN: Peepal; HT: Tr; Lu: Rel); <i>Mangifera indica</i> (LN: Mango; HT: Tr; Lu: Food); <i>saraca asoca</i> (LN: Ashoka; HT: Tr:LU: Shade, fodder)

Fish	(LN: Silver; N/C: 3; LU: Meat); (LN: Rahu; N/C: 2; LU: Meat); (LN: Naini; N/C: 2; LU: Meat); ... (LN: Buhari; N/C: 5; LU: Meat); Bighead; N/C: 2; LU: Meat) All species introduce.
Herpetofauna	Rana spp. (LN: Bhyaguto); Melanochelys spp. (LN: Kachuwa); Amphiesma spp. (LN: Panisap); Ptyas spp. (LN: Dhaman)
Birds	<i>Casmerodius albus</i> (LN: Bakulla; LU: None);
Mammals	Funambulus spp. (Squirrel); (Bat,);
Invasive alien species	<u>Plants</u> : <i>Eichhornea sp</i> (LN: Jalkhumbi, CO: 1%); <u>Animals</u> : none
Endemic plant/animal	Plant: None. Animal: none
Abundance of plants	Core Area: none. Basin Area: Cynodon dactylon (25%); Mangifera indica (2%); Ficus religiopsa (1%)Saraca asoca (3%).
Biomass in core area	none

### **E. Socio-Economy at Basin**

Nearby settlement	Rani Ratawara; 50 m from lake; Main road: Jaleswor Highway road.
Land use	Agriculture (80%); Settlement (15%); Wetlands (5%).
Demography	Population: 240; Male: 125; Female: 115; HHs: 30; Brahmin/Chettri (10%); Janajati (50%); Dalit (30%); Others (10%); Major Religion: Hindu; Major Dialect: Maithili).
Education	Primary level (95%); School level certificate (+2) (20%); University level (5%).
Occupation	Agriculture (70%); Employment (2%); Trade/Business (5%); Remittance (13%), Wage and labor (10%).
Jurisdiction/ownership	State
Wetlands dependent community	none.
Livestock at basin	150 no.
Traditional production system	None.
Traditional water use practices	Local irrigation system (1, kolua nadi ko Paini).
Cultural record	Mela and worship in chhat.
Genesis/origin of lake	none

### **F. Ecosystem Goods/Services**

Provisional services	livestock; fishery (NRs 2 lakhs per year); washing; cleaning etc.
Cultural services	worship in Laxminarayan Temple, chhat.

### **G. Restoration/Management**

Structural management	none.
Non-structural management	Informal restriction.
Conservation plan	NA.
Monitoring plan	None.

**H. Tourism information**

None needs improvement in infrastructure and human resource.

**I. Lake condition**

Degrading.

## 8. Satuniya Pokhari

Code: P2-D3-008

Toposheet no: 2685 08 B

Date of inventory: June 2, 2013

Compiler's name: Sujan Ghimire



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°48'35.20"N; <u>Lon.</u> 85°47'19.52" E; <u>Alt.</u> : 94 masl.
Geographical position	Terai
Administrative feature	CDR; Mahottari district; Ramgopalpur VDC; 02 ward; Dolaratti
Boundary	<u>Core Area</u> : grassland in east; jungle in west; grassland in south; grassland in north. <u>Basin Area</u> : Bardibas Jaleshowar road in east; Agriculture land in west; Agriculture land in south; Laxmipur village in north.
Management Responsibility	Government (Ramgopalpur VDC)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 41°C (Jun/Jul).
Physical feature	
Area	<u>Core Area</u> : 31 ha; Avg. Length: 500m; 2 m; Avg. Width: 200 m; Avg. Depth: 2m; Max-Min Surface Water Level: 1.5m-2m change; <u>Basin Area</u> : 123 ha

### C. Hydrological feature

Water Volume	Peak Period: 400 000 m <sup>3</sup> ; Dry period: 200 000 m <sup>3</sup> ; Inlet: NA; Inlet: none; Discharge Rate: NA
Water quality	<u>Physicochemical parameter</u> : Temp.: 27 °C; pH: 6.9;
Soil feature	Grey, sandy clay loam texture.
Shocks/vulnerability	NA

### D. Biological feature

Major aquatic plants	Phytoplankton: Spirogyra sp (25ind./m <sup>2</sup> ), Zooplankton: NA Core Area: No Plants i.e. 100% open water surface
Major plants in basin	Ficus spp. (LN: Peepal; HT: Tr; LU: Tr); Eucalyptus (LN: Masala; HT: Tr; LU: Tr); Cocus spp. (LN: Nariwol; HT: Tr; LU: Tr); Mangifera indica (LN: Mango; HT: Tr; LU: Tr); Cyanodon sps. (LN: Dubo; HT: Herb; LU: herb); ..... (LN: Mirchhiya; HT: Herb; LU: herb)

Fish	... (LN: Kothre; N/C: 10; LU: Meat); ... (LN: Rahu; N/C: 8; LU: Meat); ... (LN: Naini; N/C: 6; LU: Meat); ... (LN: Silver; N/C: 10; LU: Meat); ..... (LN: Buhari; N/C: 2; LU: Meat. All species introduce.
Herpetofauna	Rana spp. (LN: Bhyaguto); Melanochelys spp. (LN: Kachuwa); Amphiesma spp. (LN: Panisap); Ptyas spp. (LN: Dhaman)
Birds	Corvus spp. (LN: Crow; ON: 6; Local); Dicrurus spp. (Chibe, ON: 1); Columbus spp. (Pigeon, ON: several
Mammals	... (cow, ON: Severals); ... (Fox); ... (treesquarrel, ON: 4); ... (buffalo, ON: Several); ... (goats, ON: Several); ... (Bat, ON: 1);
Invasive alien species	..... (LN: Mirchhiya; HT: Herb; LU: herb)
Endemic plant/animal	NA
Abundance of plants	Core Area: NA
Area: Mango (50%); Masala (10%); Peepal (2%); Vicks (30%); Others (10%)	

### **E. Socio-Economy at Basin**

Nearby settlement	Dolarati Bazar; 500 m from lake; Main trail: Bardibas-Jaleshowar road.
Land use	Forest land (15%); Grass land (5%); Agriculture (70%); Wetlands (5%); Others (5%);
Demography	Population: 1400; Male: 800; Female: 600; HHs: 200 (source: Local); (Brahmin/Chettri (20%); Janajati (40%); Dalit (30%); others (10%); Major Religion: Hindu; Major Dialect: Maithili).
Education	Primary level (70%); School level certificate (+2) (20%); University level (2%).
Occupation	Agriculture (65%); Employment (10%); Trade/Business (5%); Remittance (20%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	800/900
Traditional production system	None
Traditional water use practices	NA
Cultural record	NA
Genesis/origin of lake	NA

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock; fishery; irrigation; domestic use
Cultural services	excursion site for students; local fair in <i>Chhath</i> .

### **G. Restoration/Management**

Structural management	NA
Non-structural management	NA
Conservation plan	NA

Monitoring plan

NA

**H. Tourism information**

NA

**I. Lake condition**

Degrading in the sense of decreasing water surface area

## 9. Sukhdev Pokhari

Code: P2-D3-009

Toposheet no: 2685 08 B

Date of inventory: May 26, 2013

Compiler's name: Laxmi Awasthi



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26°38' 12"N; <u>Long.</u> : 85°48' 40" E; <u>Alt.</u> : 64 amsl.
Geographical position	Terai
Administrative feature	CDR; Mahottari district; Sugabhawanipatti VDC; 1 ward; Pachhyari Tole (Currently: Ramgopalpur Municipality; Ward no. 5)
Boundary	<u>Core Area</u> : Garden in east; Mangoo Farm in west; Jaleshwar-Matiyani Road in south; Grassland in north. <u>Basin Area</u> : Agriculture Land in east; settlement in west; Jaleshwar-Matiyani Road in south; Agriculture land in north.
Management Responsibility	Government (Sukhdev Higher Secondary School)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 42°C (Jun/Jul). <u>Avg. Min.</u> : - 9°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 3 ha; Avg. Length: 300m; Avg. Width: 100 m; Avg. Depth: 3.5m; Max-Min Surface Water Level: 1.5 - 3 m; Basin Area: 10-12 ha

### C. Hydrological feature

Water Volume	Peak Period: 90 000 m <sup>3</sup> ; Dry period: 80000 m <sup>3</sup> ; Inlet: Bigahi Nadi in east... Discharge Rate: ... lts/s; outlet: small Irrigation canal at west.
Water quality	<u>Physicochemical parameter</u> : Temp.: 25 °C; pH: 6.9;
Soil feature	Grey and dark color, sandy loam texture.
Shocks/vulnerability	People believed that <i>Sukdev risi</i> used to stay here and <i>sita mata</i> was also came here to meet the risi and she pray at the temple and water of the lake used for the pray.

### D. Biological feature

Major aquatic plants	Phytoplankton: Spirogyra sp (600 ind./m <sup>2</sup> ), Azolla sps (400ind./m <sup>2</sup> ). Zooplankton: NA Core Area: Eichhornea sp (HT: Sm, LU: Fd for pig), Nymphiya Sp (HT: LU:), <i>Trapha sp</i> (HT: Em, LU:)
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Major plants in basin	Papulus ciliaste (LN: pipal; HT: Tr; LU: Tr); Ficus bengelensis (LN: Bar; HT: Tr; LU: Tm, resin); Magnifera indica ... (LN: Aap, HT: Tr, LU: Fr), ..... (LN: Coconut, HT: Sh, LU: Fr), (LN: Amba, HT: Tr, LU: Fr), Dalbergia sissoo (LN: Sisam, Ht: Tr, LU; Tr), (LN: Besaram, Ht: Sh, LU: forage), (LN: Bamboo, HT: Ss, Lu: handocrft), Accacia catechu(LN:Khayar.HT: Tr, LU: Md/Timber, (LN: Banana, HT:sh, LU: Fr).
Fish	... (LN: Singi; N/C: 2; LU: Meat); ... (LN: Rahu; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 3; LU: Meat); ... (LN: Bhokada; N/C: 2; LU: Meat) ... (LN: kothiya; N/C: 2; LU: Meat) ... (LN: Mahara; N/C: 2; LU: Meat) ... (LN: Garahi; N/C: 2; LU: Meat) (LN: Garchulii; N/C: 2; LU: Meat) (LN: Katari; N/C: 2; LU: Meat) (LN: Silver carp; N/C: 2; LU: Meat). All species introduce.
Herpetofauna	Rana spp. (LN: Bhyaguto); Melanochelys spp. (LN: Kachuwa); Amphiesma spp. (LN: Panisap); Ptyas spp. (LN: Dhaman)
Birds	Pichnonothus sp. (LN: Jureli; ON: 7; Migratory);
Mammals	Funambulus spp. (Squirrel, ON: 1);
Invasive alien species	Plants: Eupatorium sp (LN: Banmara, CO: 40%); Eichhornea sp (LN: Jalkhumbi, CO: 40%); Mikenia macarant (LN: ..., CO: 80 %). Animals: .....
Endemic plant/animal	Plant: None. Animal: None
Abundance of plants	Core Area: Nymphaea sp (10%), Eichhornea sp (20%). Basin Area: Papulus ciliaste (5%); .... Mangifera indica (40%), Bamboo (20%), Dalbergia sissoo (15%),) Azadirachata indica a. juss.15%), Accacia catechu (5%).

## E. Socio-Economy at Basin

Nearby settlement	Pachhyari tole(Suga-Bhawanipatti); 100m from lake; Main trail: Jaleshwar –Matiyani Road.
Land use	Forest land (...); Shrub land (...); Grass land 10%; Agriculture (70%) Settlement (10%); Wetlands (5%); Others (5%);
Demography	Population: 255; Male: 120; Female: 135; HHs: 35; Brahmin/Chettri (80%); Janajati .... Dalit (10%); Others (10%); Major Religion: Hindu; Major Dialect: Maithali).
Education	Primary level (95%); School level certificate (+2) (95%); University level (15%).
Occupation	Agriculture (70%); Employment (5%); Trade/Business (5%); Remittance (20%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	20 no.
Traditional production system	None.
Traditional water use practices	Community pond (3).
Cultural record	Sikhdev Risi used to stay at the place and Sita mata also used to came that place for prey and to meet with the Risi.



Genesis/origin of lake NA

**F. Ecosystem Goods/Services**

Provisional services Water for livestock; fishery; fuelwood; fodder/forage

Cultural services Historic site for Hindu Community; Swimming place for Hindu prayer.

**G. Restoration/Management**

Structural management None

Non-structural management Informal restriction.

Conservation plan None

Monitoring plan None.

**H. Tourism information**

>None. Needs improvement in infrastructure and human resource.

**I. Lake condition**

Degrading.

## 10. Telia Pokhari

Code: P2-D3-010

Toposheet no: 2685 08 A

Date of inventory: May 28, 2013

Compiler's name: Dhruba Aharya



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26°42.432 N; <u>Lon.</u> : 85°48.873 E; <u>Alt.</u> : 45 amsl.
Geographical position	Terai
Administrative feature	CDR; Mahottari district; Dami Madai VDC; 2 ward; Dami. (Currently: Mahottari Rural Municipality; Ward no. 3)
Boundary	<u>Core Area</u> : settlement in east, Kalika mandir in west, Aggricultural land in south and settlement in north. <u>Basin Area</u> : Dami madai village in east and north, Kalika mandir in west, Aggricultural land in south.
Management Responsibility	Community (Kalika Mandir Management Committe)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 40°C (Jun/Jul). <u>Avg. Min.</u> : - 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 1 ha; Avg. Length: 120 m; Avg. Width: 100 m; Avg. Depth: 3 m; Max-Min Surface Water Level: 3-4 m; <u>Basin Area</u> : 2 ha

### C. Hydrological feature

Water Volume	Peak Period: 48000 m <sup>3</sup> ; Dry period 36000m <sup>3</sup> ; Inlet: Rato Nadi kulo; Discharge Rate; 100m <sup>3</sup> Outlet: School ko kulo Discharge Rate 80 m <sup>3</sup>
Water quality	<u>Physicochemical parameter</u> : Temp.: 28 °C; pH: Blue litmus changes into red
Soil feature	Grey color, sandy clay.
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	Phytoplankton: Spirogyra sp Azolla sps Zooplankton: NA CoreArea: Eichhornea sp (HT: Sm, LU: none) ... (LN: Kamal; HT: Ff; LU: None); Alternanthera sp. (HT: Sh:LU: None)
Major plants in basin	<i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Timber) <i>Ficus religiopsa</i> (LN: Peepal; HT: Tr; Lu: Rel); <i>Mangifera indica</i> (LN: Mango; HT: Tr; Lu: Food) ;(LN: Bar; HT: Tr; LU: Fodder); <i>saraca asoca</i>

	(LN: Ashoka; HT: Tr:LU: Shade, fodder); <i>Bambusa vulgaris</i> (LN: Bamboo; HT: Tr:LU: Tm); <i>Azadirachta indica</i> (LN: Neem; HT: Tr:LU: Tm)
Fish	... (LN: Silver; N/C: 4; LU: Meat); ... (LN: Rahu; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 2; LU: Meat); ... (LN: Bhyakur; N/C: 2; LU: Meat); (LN: Bighead; N/C: 1; LU: Meat) ... (LN: Grass carp; N/C: 5; LU: Meat) All species introduce.
Herpetofauna	<i>Rana</i> spp. (LN: Bhyaguto); <i>Melanochelys</i> spp. (LN: Kachuwa); <i>Amphiesma</i> spp. (LN: Panisap); <i>Ptyas</i> spp. (LN: Dhaman)
Birds	<i>Casmerodius albus</i> (LN: Bakulla; LU: None); <i>Tachybaptus</i> spp. (LN: Silly; LU: None)
Mammals	<i>Funambulus</i> spp. (Squirrel);
Invasive alien species	Plants: <i>Eichhornea</i> sp (1%); Animals: none
Endemic plant/animal	Plant: None. Animal: none
Abundance of plants	Core Area: <i>Shorea robusta</i> (2%) <i>Ficus religiosa</i> (5%); <i>Mangifera indica</i> (5%) <i>saraca asoca</i> (2%); <i>Bambusa vulgaris</i> (10%); <i>Azadirachta indica</i> (5%).
Biomass in core area	none

### **E. Socio-Economy at Basin**

Nearby settlement	Dami village; 50 m from lake; Main road: Jaleswor Dami road.
Land use	Agriculture (80%); Settlement (15%); Wetlands (5%).
Demography	Population: 400; Male: 230; Female: 170; HHs: 50; <i>Brahmin/Chettri</i> (25%); <i>Janajati</i> (30%); <i>Dalit</i> (30%); <i>Others</i> (15%); Major Religion: Hindu; Major Dialect: Maithili.
Education	Primary level (95%); School level certificate (+2) (30%); University level (15%).
Occupation	Agriculture (55%); Employment (5%); Trade/Business (10%); Remittance (20%), Wage and labor (10%)
Jurisdiction/ownership	State
Wetlands dependent community	none.
Livestock at basin	280 no.
Traditional production system	None.
Traditional water use practices	Local irrigation system (1 Kulo) Community ponds (2)
Cultural record	worship in Kalika Temple, Chhat parwa.
Genesis/origin of lake	none

### **F. Ecosystem Goods/Services**

Provisional services	livestock; fishery (NRs 1 lakhs per year); washing; cleaning.
Cultural services	Mela and worship in chhat.

### **G. Restoration/Management**

Structural management	none.
Non-structural management	Informal restriction.

Conservation plan

NA.

Monitoring plan

None.

**H. Tourism information**

no visitors; no hotel; Need in infrastructure and human resource.

**I. Lake condition**

Degrading.

## 11. Thari Pokhari

Code: P2-D3-011

Toposheet no: 2685 08 A

Date of inventory: May 21, 2013

Compiler's name: Dhruva Acharya



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26°41.794 N; <u>Lon.</u> : 85°39.246 E; <u>Alt.</u> : 54 amsl.
Geographical position	Terai
Administrative feature	CDR; Mahottari district; Mahottari VDC; 5 ward; Thari. (Currently: Mahottari Rural Municipality; Ward no. 2)
Boundary	<u>Core Area</u> : Aggricultural land in east, settlement in north, south and west. <u>Basin Area</u> : Aggricultural land in east; Madai village in west; Mahottari village in south; Anaitha village in north.
Management Responsibility	Government (Thari VDC)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 40°C (Jun/Jul). <u>Avg. Min.</u> : - 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 2 ha; Avg. Length: 300 m; Avg. Width: 280 m; Avg. Depth: 3 m; Max-Min Surface Water Level: 2-4 m; <u>Basin Area</u> : 3 ha

### C. Hydrological feature

Water Volume	Peak Period: 336000 m <sup>3</sup> ; Dry period: 252000 m <sup>3</sup> ; Inlet: Thari irrigation kulo: Discharge Rate; 250m <sup>3</sup> Outlet: Kulo Discharge Rate 100 m <sup>3</sup>
Water quality	<u>Physicochemical parameter</u> : Temp.: 28 °C; pH: Blue litmus changes into red
Soil feature	Grey color, loamy sand.
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	Phytoplankton: Spirogyra sp Azolla sps Zooplankton: NA Core Area: none.
Major plants in basin	<i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Timber) <i>Ficus religiopsa</i> (LN: Peepal; HT: Tr; Lu: Rel); <i>Mangifera indica</i> (LN: Mango;

	HT: Tr; Lu: Food) ;(LN: Bar; HT: Tr: LU: Fodder); saraca asoca (LN: Ashoka; HT: Tr:LU: Shade, fodder).
Fish	... (LN: Silver; N/C: 10; LU: Meat); ... (LN: Rahu; N/C: 4; LU: Meat); ... (LN: Naini; N/C: 1; LU: Meat); ... (LN: Bhyakur; N/C: 3; LU: Meat) ;(LN: Bighead; N/C: 1; LU: Meat) ... (LN: Grass carp; N/C: 8; LU: Meat) All species introduce.
Herpetofauna	Rana spp. (LN: Bhyaguto); Melanochelys spp. (LN: Kachuwa); Amphiesma spp. (LN: Panisap); Ptyas spp. (LN: Dhaman)
Birds	<i>Casmerodius albus</i> (LN: Bakulla; LU: None); ...
Mammals	funambuluss spp. (Squirrel,);
Invasive alien species	Plants: none; Animals: none
Endemic plant/animal	Plant: None. Animal: none
Abundance of plants	Core Area: none. Basin Area: <i>Shorea robusta</i> (5%) <i>Mangifera indica</i> (2%); <i>Ficus religiopsa</i> (2%) <i>Saraca asoca</i> (5%) <i>Musa acuminata</i> (5%) <i>Bar</i> (5%).
Biomass in core area	<i>none</i>

### **E. Socio-Economy at Basin**

Nearby settlement	Mahottari village; 20 m from lake; Main road: Jaleshwor Mahottari road.
Land use	Agriculture (85%); Settlement (10%); Wetlands (5%).
Demography	Population: 1200; Male: 590; Female: 610; HHs: 150; Brahmin/Chettri (50%); Janajati (30%); Dalit (15%); Others (5%); Major Religion: Hindu; Major Dialect: Maithili.
Education	Primary level (95%); School level certificate (+2) (40%); University level (10%).
Occupation	Agriculture (70%); Employment (5%); Trade/Business (5%); Remittance (10%), Wage and labor (10%)
Jurisdiction/ownership	State
Wetlands dependent community	none.
Livestock at basin	350 no.
Traditional production system	None.
Traditional water use practices	Community ponds (4 Mahottari pokhari, Rabahi, Chhapkhi and Kaithi pokhari).
Cultural record	worship in Hanuman mahadev mandir, Chhat parwa.
Genesis/origin of lake	none

## **F. Ecosystem Goods/Services**

Provisional services                      livestock; fishery (NRs 1.5 lakhs per year); washing; cleaning.  
Cultural services                            Mela and worship in chhat.

## **G. Restoration/Management**

Structural management                  none.  
Non-structural management            Informal restriction.  
Conservation plan                        NA.  
Monitoring plan                          None.

## **H. Tourism information**

no visitors; no hotel; Need in infrastructure and human resource.

## **I. Lake condition**

Degrading.

## 12. Tharuhai Pokhari

Code: P2-D3-012

Toposheet no: 2685 08 A

Date of inventory: May 28, 2013

Compiler's name: Dhruba Acharya



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 26°39'10"N; Lon.: 85°45'52" E; Alt.: 48 amsl.

Geographical position

Terai

Administrative feature

CDR; Mahottari district; Naini VDC; 6 ward; Chadani Chowk.  
(Currently: Jaleshwar Municipality; Ward no. 12)

Boundary

Core Area: Agricultural land in east, north and south; settlement in west.

Basin Area: Aggricultural land in east; Chadani chowk in west; Temple in south; Tharuhai school in north.

Management Responsibility

Government (DDC, Mahottari)

Wetlands type

Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 40°C (Jun/Jul). Avg. Min.: - 5°C (Dec).

Physical feature

Area

Core Area: 1.5 ha; Avg. Length: 250m; Avg. Width: 180 m; Avg. Depth: 3 m; Max-Min Surface Water Level: 2-4 m; Basin Area: 3 ha

### C. Hydrological feature

Water Volume

Peak Period: 180000 m<sup>3</sup>; Dry period: 9000 m<sup>3</sup>; Inlet: none  
Outlet: none

Water quality

Physicochemical parameter: Temp.: 32 °C; pH: Blue litmus changes into red

Soil feature

Grey color, clay loam.

Shocks/vulnerability

None

### D. Biological feature

Major aquatic plants

Phytoplankton: Spirogyra sp Azolla sps Zooplankton: NA  
Core Area: Eichhornea sp (HT: Sm, LU: none).

Major plants in basin

Ficus religiopsa (LN: Peepal; HT: Tr; Lu: Rel); Mangifera indica (LN: Mango; HT: Tr; Lu: Food); Cocus nucifera (LN: Coconut);



	HT: Tr:LU: Food); <i>Musa acuminata</i> (LN: Banana; HT: Tr:LU: Food); saraca asoca (LN: Ashoka; HT: Tr:LU: Shade, fodder).
Fish	... (LN: Silver; N/C: 4; LU: Meat); ... (LN: Rahu; N/C: 5; LU: Meat); ... (LN: Naini; N/C: 2; LU: Meat); ... (LN: Bhyakur; N/C: 3; LU: Meat) ;(LN: Bighead; N/C: 1; LU: Meat) All species introduce.
Herpetofauna	Rana spp. (LN: Bhyaguto); Melanochelys spp. (LN: Kachuwa); Amphiesma spp. (LN: Panisap); Ptyas spp. (LN: Dhaman)
Birds	<i>Casmerodius albus</i> (LN: Bakulla; LU: None) ;(LN: Crane; LU: None) ;(LN: waterfowl; LU: None); (LN: Silly; LU: None.); (LN: Bhuilochan bird; LU: None); (LN: Chiva; LU: None)
Mammals	none
Invasive alien species	Plants: Eichhornea sp (LN: Jalkhumbi, CO: 1%); Animals: none
Endemic plant/animal	Plant: None. Animal: none
Abundance of plants	Core Area: none. Basin Area: Cocus nucifera (5%); Mangifera indica (2%); Ficus religiopsa (2%)Saraca asoca (5%) Musa acuminata (5%).
Biomass in core area	none

### **E. Socio-Economy at Basin**

Nearby settlement	Chadani Chowk; 50 m from lake; Main road: Jaleswor Naini road.
Land use	Agriculture (80%); Settlement (15%); Wetlands (5%).
Demography	Population: 600; Male: 320; Female: 280; HHs: 75; <i>Brahmin/Chettri</i> (10%); <i>Janajati</i> (30%); <i>Dalit</i> (20%); <i>Others</i> (40%); Major Religion: Hindu; Major Dialect: Maithili).
Education	Primary level (90%); School level certificate (+2) (30%); University level (2%).
Occupation	Agriculture (70%) Employment (2%); Trade/Business (10%); Remittance (10%), Wage and labor (10%)
Jurisdiction/ownership	State
Wetlands dependent community	none.
Livestock at basin	350 no.
Traditional production system	None.
Traditional water use practices	Local irrigation system (1, kolua nadi ko Paini).
Cultural record	Mela and worship in chhat.
Genesis/origin of lake	none

### **F. Ecosystem Goods/Services**

Provisional services	livestock; fishery (NRs 3lakhs per year); washing; cleaning etc.
Cultural services	Mela and worship in chhat.

### **G. Restoration/Management**

Structural management	none.
Non-structural management	Informal restriction.
Conservation plan	NA.
Monitoring plan	None.
<b>H. Tourism information</b>	none; no hotel; Needs improvement in infrastructure and human resource.
<b>I. Lake condition</b>	Degrading.

## Annex-20: Inventory of lakes in Parsa district

### 1. Gamharia Pokhari

Code: P2-D4-001

Toposheet no: 2784 15D

Date of inventory: June 3, 2013

Compiler's name: Shanti Paudel/

Manju Gautam



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°02'18"N; <u>Lon.</u> : 84°41'09" E; <u>Alt.</u> 80m
Geographical position	Terai
Administrative feature	CDR; Parsa district; Vishwa VDC; Vishwa, 5 wards  (Currently: Chippaharmai Municipality; Ward no. 5)
Boundary	<u>Core Area</u> : Trail in east; Settlement in west, south, north
Management Responsibility	Government
Wetlands type	Freshwater/ natural; Lacustrine; seasonal.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 40°C (Jul/Sept). <u>Avg. Min.</u> : - 0°C (January) (Source: <a href="http://www.dnpwc.gov.np/protected-areas/wild-life-reserves/12-parsa-wildlife-reserve.html">http://www.dnpwc.gov.np/protected-areas/wild-life-reserves/12-parsa-wildlife-reserve.html</a> )
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#### Physical feature

Area	<u>Core Area</u> : 1.5 ha; Avg. Length: 300 m; Avg. Width: 100 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 0 - 2 m.
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#### C. Hydrological feature

Water Volume	Peak Period: 30, 000 m <sup>3</sup> ; Dry period: 0 m <sup>3</sup>
Water quality	<u>Physicochemical parameter</u> : NA
Soil feature	Yellowish, sandy texture.
Shocks/vulnerability	NA

#### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : Spirogyra sps <u>Zooplankton</u> : NA  <u>Core Area</u> : <i>Graminae sps</i> (LN: Lahare banso, HT: Herb, LU: Grass); <i>Pistia stratiotes</i> (HT: Ff, LU: No); <i>Eichhornia crassipes</i> (LN: Jal kumbhi, HT: Ff, LU: Ornamental).
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Major plants in basin	<i>Dalbergia sissoo</i> (LN: Sissau; HT: Tree; LU: Tm, Ful), <i>Magnifera indica</i> (LN: Aamp, HT: Tr, LU: Fr); <i>Ipomoea carnea</i> (LN: Besharam, HT: Sb)
Fish	NA
Herpetofauna	<i>Rana tigrina</i> (Frog), Snakes
Birds	<i>Corvus Splendens</i> (LN: Kaag, ON: 7); <i>Casmerodius albus</i> (LN: Crane, ON: 3); Duck sps (LN: Haans ON:10).
Mammals	NA
Invasive alien species	<u>Plants</u> : Lahare banso (25%); <i>Pistia stratiotes</i> (5%); <i>Eichhornia crassipes</i> (25%). <u>Animals</u> : None.
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : <i>Eichhornia crassipes</i> (10%) <i>Dalbergia sissoo</i> (10%), <i>Magnifera indica</i> 30%); <i>Ipomoea carnea</i> (15%)

### E. Socio-Economy at Basin/ Peripheri

Nearby settlement	Vishwa; Main trail: Way to custom office/ Mahendra road India.
Land use	Agriculture (60%); Settlement (40%); Wetlands (2%)
Demography	HHs: 35; Brahmin/Chettri (0%); Janajati/ Indiginous (95%); Dalit (5%); Major Religion: Hindu; Major Dialect: Bhojpuri.
Occupation	Agriculture (85%); Employment (5%); Trade/Business (25%); Remittance (5%)
Jurisdiction/ownership	State
Wetlands dependent community	None
Traditional production system	Agriculture (ploughing fields)
Traditional water use practices	None.
Cultural record	None
Genesis/origin of lake	NA

### F. Ecosystem Goods/Services

Provisional services	Water for livestock.
Cultural services	None.

### G. Restoration/Management

Structural management	No
Non-structural management	NO
Conservation plan	NO.
Monitoring plan	None

### H. Tourism information

No visitors; No infrastructures like road accessibility, transportation facilities etc. No tourism potential.

### I. Lake condition

Degrading (Encroachment has decreased the total area of lake within few years; lake is nearly getting lost)

## 2. Nawagachhi Dam

Code: P2-D4-002

Toposheet no: 2784 15B

Date of inventory: 05 June, 2013

Compiler's name: Shanti Paudel/  
Manju Gautam



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 27°08'20"N; <u>Lon.</u> : 84°43'50" E; <u>Alt.</u> : 100 m.
Geographical position	Terai
Administrative feature	CDR; Parsa district; Jagarnathpur VDC; 8 wards; Sohari. (Currently: Jagarnathpur Rural Municipality; Ward no. 5)
Boundary	<u>Core Area</u> : Paddy field in all the Direction
Management Responsibility	Government
Wetlands type	Manmade; water storage dam for irrigation.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 40°C (Jul/Sept). <u>Avg. Min.</u> : - 0°C (January) (Source: <a href="http://www.dnpwc.gov.np/protected-areas/wild-life-reserves/12-parsa-wildlife-reserve.html">http://www.dnpwc.gov.np/protected-areas/wild-life-reserves/12-parsa-wildlife-reserve.html</a> )
Physical feature	
Area	<u>Core Area</u> : 35 ha; Avg. Length: 800 m; 2 m; Avg. Width: 300 m; Avg. Depth: 5 m.

### C. Hydrological feature

Water Volume	Peak Period: 1,750,000 m <sup>3</sup>
Water quality	<u>Physicochemical parameter</u> : Temp.: 38 °C; pH: 6.5; Transparency: <1 m;
Soil feature	whitish, sandy texture
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : <i>Azolla</i> sps, <i>Eichhornia crassipes</i> (LN: Jal kumbhi, HT: Ff, LU: Ornamental); <i>Trapa</i> sps (HT: Ff); <i>Hydrilla</i> sps (HT: Fm); <i>Chara</i> Sps (HT: Sm). <u>Zooplankton</u> : NA <u>Core Area</u> : <i>Azolla</i> sps, <i>Eichhornia crassipes</i> (LN: Jal kumbhi, HT: Ff, LU: Ornamental); <i>Trapa</i> sps (HT: Ff); <i>Hydrilla</i> sps (HT: Ff); <i>Chara</i> Sps (HT: Sm).
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Major plants in basin	<i>Dendrocalamus sps</i> (LN: Bans; HT: Tr; LU: Ful, Fd); <i>Artocarpus heterophyllus</i> (Rukh katahar, HT: Tr, LU: Fr); <i>Magnifera indica</i> (LN: Aamp, HT: Tr, LU: Fr)
Fish	Monopterus cuchia (LN: Bam; N/C: 5; LU: Meat); Channa striata (LN: Sauri; N/C:7; LU: Meat); Puntius chola (LN: Pothi; N/C: 3; LU: Meat); Teauri, Jhinge. (All are Resident).
Herpetofauna	Naja naja (Cobra); Ptyas mucosus (Dhaman); Indotestudo elongate (Turtle); Rana tigrina (Frog, ON: many); Xenochrophis piscator (Water snake; ON: 1)
Birds	Grus grus; grus antigone (2-Crane sps, ON:10); (Pani hans, ON:8); Lampuchhre, ON:2
Mammals	Canis aureus (Jackel, ON:3)
Invasive alien species	Plants: Eichhornia crassipes (Jal Kumbhi); <i>Ipomoea carnea</i> (Besharam); <i>Lantana camara</i> . <u>Animals</u> :
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None.

### **E. Socio-Economy at Basin**

Nearby settlement	Sohari, Hulaki Sadak
Jurisdiction/ownership	State
Wetlands dependent community	None.
Cultural record	None
Genesis/origin of lake	Dam was constructed on 2062B.S. for the irrigation purpose

### **F. Ecosystem Goods/Services**

Provisional services	Irrigating water supply.
Cultural services	Recreational

### **G. Restoration/Management**

Structural management	A water regulator
Non-structural management	Available
Conservation plan	No.
Monitoring plan	No

### **H. Tourism information**

No hotels, No Infrastructure, Local transportation Available but not accessible in rainy season; Promotional Activities and infrastructural development

### **I. Lake condition**

Good

### 3. Rabidash Pokhari

Code: P2-D4-003

Toposheet no: 2784 15D

Date of inventory: June 2, 2013

Compiler's name: Shanti Paudel/

Manju Gautam



#### A. General Feature

Conservation status	None.
Geographical coordination	Lat.: 27o04'40"N; Lon.: 84o42'50" E; Alt.: 86 m.
Geographical position	Terai
Administrative feature	CDR; Parsa district; Mudali VDC; Rabidash. (Currently: Kalikamai Rural Municipality; Ward no. 1)
Boundary	Core Area: Agricultural land in east; small irrigation canal in west; Foot trail south; Agricultural land in north.
Management responsibility	Government (Leased by VDC for fish farming)
Wetlands type	Freshwater/ natural; Lacustrine; Seasonal.

#### B. Ecological Feature

Climatic feature	Avg. Max: Temp.: 40°C (Jul/Sept). Avg. Min.: - 00°C (January) (Source: <a href="http://www.dnpwc.gov.np/protected-areas/wild-life-reserves/12-parsa-wildlife-reserve.html">http://www.dnpwc.gov.np/protected-areas/wild-life-reserves/12-parsa-wildlife-reserve.html</a> )
Physical feature	
Area	<u>Core Area</u> : 2 ha; Avg. Length: 500; Avg. Width: 500 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 1 - 3 m

#### C. Hydrological feature

Water Volume	Peak Period: 30, 000 m <sup>3</sup> ; Dry period: 10,000 m <sup>3</sup>
Water quality	Physicochemical parameter: Temp.: 37 °C; pH: Slightly acidic
Soil feature	yellowish color, sandy texture
Shocks/vulnerability	None

#### D. Biological feature

Major aquatic plants	Phytoplankton: None. Zooplankton: NA  Core Area: Imperata cylindrica (LN: Siru; HT: Hb/ Em); Saccharum spontaneum (LN: Kans; HT: Hb/ Em; LU: Grass); Cynodon dactylon (LN: Dubo; HT: Hb/ Em).
Major plants in basin	Magnifera indica (LN: Aamp, HT: Tr, LU: Fr); Dalbergia sissoo (LN: Sissau HT: Tr, LU: Tm, Ful); Artocarpus heterophyllus (Rukh katahar, HT: Tr, LU: Fr); Eugenia jambolana (LN:

	Jamun, HT: Tr, LU: Fr, Medicine); <i>Calotropis gigantea</i> (LN: Ank, HT: Sb, LU: Medicine, Religious importance),
Fish	Cyprinus carpio (LN: Common carp, LU: Meat); Labeo caeruleus (LN: Rhou, LU: Meat); Cirrhinus mrigala (LN: Naini carp, LU: Meat); Hypophthalmic molitrix (LN: Silver carp, LU: Meat); Ctenopharyngodon idella (LN: Grass carp, LU: Meat)  (About 300-400kg fish at one catch, thus each type has around 50-60 number per catch)
Herpetofauna	Rana tigrina (LN: Frog, ON:5), Xenochrophis piscator (Water snake); Naja naja (LN: Goman); other species of Snakes.
Birds	Corvus splendens (LN: Kaag, ON:5); <i>Casmerodius albus</i> (LN: Crane, ON:3); Local Ducks; (ON:12)
Invertebrates	<i>Bellamyia bengalensis</i> (LN: Ghongi, ON: 12, LU: Meat); <i>Pheretima posthuma</i> (LN: Earthworm, LU: Farming); Different species of Leeches, Snails, Butterflie sand Dragonflies
Mammals	NA
Invasive alien species	Plants: None. Animals: None.
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: Imperata cylindrical (25%), Saccharum spontaneum (25%); Cynodon dactylon (20%).  <u>Peripheri</u> : <i>Magnifera indica</i> (25%); <i>Dalbergia sissoo</i> (30%); <i>Artocarpus heterophyllus</i> (10%); <i>Eugenia jambolana</i> (5%);

## E. Socio-Economy at Basin/Peripheri

Nearby settlement	Rabidash; 1 km from lake; Main trail: Mahendra sadak.
Land use	Grass land (5%); Agriculture (85%); Wetlands (2%)
Education	Primary level (85%); School level certificate (+2) (20%); University level (10%).
Jurisdiction/ownership	State
Wetlands dependent community	None.

## F. Ecosystem Goods/Services

Provisional services	Fishery
Cultural services	Religious spiritual service (Worship in Chhat pooja)

## G. Restoration / Management

Structural management	None.
Non-structural management	Restricted for fishing
Conservation plan	None.
Monitoring plan	None.

## H. Tourism information

NA.

## I. Lake condition

Good



## Annex-21: Inventory of lakes in Rautahat district

### 1. *Bauddhi Pokhari*

Code: P2-D5-001

Toposheet no: 2685-02A

Date of inventory: May 23 2013

Compiler's name: Anju Rana,

Jeevan Chhetri, Saroj Pokheral,

Pabitra Basnet



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26°56'21.52"N; <u>Lon.</u> : 85°16'7.77"E; <u>Alt.</u> :84 amsl.
Geographical position	Terai
Administrative feature	CDR; Rautahat district; Prempur, Gonahi VDC; Ward no:5 and 6 Gonahi bazar (Currently: Dewahi Gonahi Municipality; Ward no. 7)
Boundary	<u>Core Area</u> : Gonahi bazaar in east and west and Agricultural land in North and south; Basin area: Settlement in east, west and south and cultivated land in North
Management Responsibility	Government (VDC)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	Lowest annual temperature of Rautahat:25.3°C. (Source: Terai Arc Landscape 2006); Avg annual precipitation:2013mm (DHM and ESN 2006)
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#### Physical feature

Area	<u>Core Area</u> :2.01ha; Avg. Length: 300m; Avg. Width: 275m; Avg. Depth: 3.1 m; Max-Min Surface Water Level: 3-4m;
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#### C. Hydrological feature

Water Volume	Peak Period: 80400m <sup>3</sup> ; Dry period: 60300m <sup>3</sup> ; Inlet: None
Water quality	Physicochemical parameter: Temp.: 31 0C; pH: No change in blue and red litmus paper; Soil feature: Dark Grey color; Clay
Shocks/vulnerability	None

#### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : None; <u>Zooplankton</u> : None <u>Core Area</u> ; Eichhornia crassipes (LN: Water hyacinth; HT: Em; LU: None) Major plants in basin: <i>Ficus religiosa</i> (LN: Peepal;
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	HT: Tr; Lu: Rel) ;(LN: Pakar; LU: None); Azadirachta indica (LN: Neem; HT: Tr; LU: medicine) ;(LN: Sapeta; HT: Tr; LU: None) ;(LN: Wild Karkalo; HT: Sh; LU: None); Rumex obtusifolius (HT: Sh; LU: None)
Fish	Hypophthalmic molitrix (LN: Silver; LU: meat); Ctenoharyngodon idella (LN: Grass carp; LU: meat); (LN: Bigred; LU: Meat)
Herpetofauna	Rana tigrina (LN: Frog; ON:5; LU: None)
Invertebrates	None
Invasive alien species	Eichhornia crassipes (LN: Water hyacinth: Co:5-10%; LU: None; Core area
Endemic plant/animal	Plant: None. Animal: None
Abundance of plants	Core Area: Eichhornia crassipes (5-10%); Basin Area: Ficus religiosa (2%); Pakar (1%); Neem (2%); Sapeta (2%); Wild Karkalo (1%); Rumex obtusifolius (4%); Mirchैया (5%)

### E. Socio-Economy at Basin

Nearby settlement	Gonahi bazar; 100m from lake; Main trail: Jayanagar-Gonahi trail
Land use	Agriculture -50%; Lake-10%; settlement-40%
Demography	Population: 700; Male:431; Female: 269; HHs: 80; (NPHC 2011); Caste: Brahmin/Chettri (5%); Janajati (35%); Dalit (50%); Others (10%); Major Religion: Hindu; Major Dialect: Bhojpuri)
Education	Primary level (60%); School level certificate (+2) (15%); University level (5%).
Occupation	Agriculture (90%); Employment (5%); Trade and business (5%)
Jurisdiction/ownership	State
Wetlands dependent community	Majhi community; HH-2; Distance-1km; Literacy rate:100%; Annual income-120000/HH
Livestock at basin	Buffaloes-25; Goats: about 100 (Avg: 2/HH)

Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	None

### F. Ecosystem Goods/Services

Provisional services	Fish supply
Cultural services	None

### G. Restoration/Management

Structural management	None
Non-structural management	None
Conservation plan	None
Monitoring plan	None.

**H. Tourism information**

None

**I. Lake condition**

Degrading.

## 2. Chandi Pokhari

Code: P2-D5-002

Toposheet no: 2785-14C

Date of inventory: May 22 2013

Compiler's name: Anju Rana,  
Jeevan Chhetri, Saroj Pokharel,  
Pabitra Basnet



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°06'46.5"N; <u>Lon.</u> : 85°22'19.8"E; <u>Alt.</u> :118 amsl.
Geographical position	Terai
Administrative feature	CDR; Rautahat district; Chandranigahapur VDC; Ward no:5; Chandi khola (Currently: Chandrapur Municipality; Ward no. 4)
Boundary	<u>Core Area</u> : Shahid smarak park in east; Road in west and Forest in North and south; <u>Basin area</u> : Park on east, Chandi River in west, and south and Forest in North
Management Responsibility	Community (Shahid smarak park management committee)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Lowest annual temperature of Rautahat:25.3°C. (Source: Terai Arc Landscape 2006); Avg annual precipitation:2013mm (DHM and ESN 2006)
Physical feature	
Area	<u>Core Area</u> : 1.2 ha; Avg. Length: 250m; Avg. Width: 100m; Avg. Depth: 2.1 m; Max-Min Surface Water Level: 2-4m;

### C. Hydrological feature

Water Volume	Peak Period: 48000m <sup>3</sup> ; Dry period: 24000m <sup>3</sup> ; Inlet: None
Water quality	<u>Physicochemical parameter</u> : Temp.: 27 °C; pH: No change in blue and red litmus paper; Soil feature: Dark Grey color; Clay
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	Phytoplankton: None; Zooplankton: None Core Area; None Major plants in basin: Besharam (HT: Sh; LU: none); Imperata cylindrica (LN: Siru; HT: Gr; LU: None); Dalbergia sissau (LN: Sissau; HT: Tr; LU: Tm)
Fish	Hypophthalmic molitrix (LN: Silver; LU: meat); Ctenoharyngodon idella (LN: Grass carp; LU: meat); (LN: Bigred; LU: Meat)

Herpetofauna	Rana tigrina (LN: Frog; ON:5; LU: None) ;(LN: Dhodia saap:LU: None); (LN: Masar gidhi saap; LU: none)); (LN: Gohu; LU: none) ;(LN: Tortoise; LU: none)
Invertebrates	None
Invasive alien species	Ipoemoea camea (LN: Besaram; Co-5%; Basin area)
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : None <u>Basin Area</u> : Besaram (5%); Siru (70%), <i>Dalbergia sissau</i> (15%)

### **E. Socio-Economy at Basin**

Nearby settlement	Chandranigahapur village; 1 km from lake; Main trail: Mahendra highway
Land use	Forest-30%, Shrubland-5%; Grassland :20%; Barren land :5%; River-20%; Road:10%; Lake-20%
Demography	No settlement
Education	NA
Occupation	NA
Jurisdiction/ownership	State
Wetlands dependent community	None
Livestock at basin	None
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	NA

### **F. Ecosystem Goods/Services**

Provisional services	Recreational value (Park area)
Cultural services	None

### **G. Restoration/Management**

Structural management	None
Non-structural management	informal rules (No permission for littering and swimming and other domestic activities like washing and bathing)
Conservation plan	None
Monitoring plan	None.

### **H. Tourism information**

<b>I. Lake condition</b>	Good
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### 3. Dhamaura Pokhari

Code: P2-D5-003

Toposheet no: 2785-14C

Date of inventory: May 23 2013

Compiler's name: Anju Rana,  
Jeevan Chhetri, Saroj Pokheral,  
Pabitra Basnet



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26°59'55.8"N; <u>Lon.</u> : 85°19'52.9"E; <u>Alt.</u> :81 amsl.
Geographical position	Terai
Administrative feature	CDR; Rautahat district; Dhamaura VDC; Ward no:4; Sakhuwa, Dhamaura (Currently: Brindawan Municipality; Ward no. 7)
Boundary	<u>Core Area</u> : Agricultural land in west, south and North and school in East; <u>Basin area</u> : Settlement in the east, Agricultural land in west, and south and North
Management Responsibility	None
Wetlands type	Manmade (Water storage area)

#### B. Ecological Feature

Climatic feature	Lowest annual temperature of Rautahat:25.3°C. (Source: Terai Arc Landscape 2006); Avg annual precipitation:2013mm (DHM and ESN 2006)
Physical feature	
Area	Core Area: 1 ha; Avg. Length: 100m; Avg. Width: 50m; Avg. Depth: 3 m; Max-Min Surface Water Level: 3-4m;

#### C. Hydrological feature

Water Volume	Peak Period: 40000m <sup>3</sup> ; Dry period: 30000m <sup>3</sup> ; Inlet: None
Water quality	<u>Physicochemical parameter</u> : Temp.: 27 °C; pH: No change in blue and red litmus paper; Soil feature: Grey color; Silty Clay
Shocks/vulnerability	None

#### D. Biological feature

Major aquatic plants	Phytoplankton: None; Zooplankton: None Core Area; Siru (HT: Gr; LU: None); Solanum sp (HT: Sh; LU: None) Major plants in basin: Cynodon dactylon (LN: Dubo (HT: Em; LU: None); Eugenia jambola (LN: Jamun; HT: Tr; LU: None); Mangifera indica (LN: Mango; HT: Tr; LU: Food); Saraca asoca (HT: Tr; LU: None)
Fish	Labio rohita (LN: Rohu; LU: meat); Hypophthalmic molitrix (LN: Silver; LU: meat); ... (LN: Israil; LU: meat); ... (LN:

Herpetofauna	Bigred; LU: Meat); <i>Ctenoharyngodon idella</i> (LN: Grass carp; LU: meat); ..... (LN: Chhadi; LU: meat); (LN: Naini; LU: Meat)
Birds	<i>Rana tigrina</i> (LN: Frog; ON:5; LU: None) ;(LN: Dhodia saap:LU: None); (LN: Lizard; LU: None)
Invertebrates	<i>Casmerodius albus</i> (LN: Bakulla; ON:2; LU: None); <i>Grus grus</i> (LN: Crane; LU: None) ;(LN: Garud; LU: None); (LN: Garud; LU: None) ;(LN: Gairi; LU: None); (LN: Pandubi; LU: None)
Invasive alien species	..... (LN: Snail:LU: None), (LN: Leech; LU: None)
Endemic plant/animal	Eichhornia crassipes; Co:10%; LU: None; Core area
Abundance of plants	Plant: None. Animal: None Core Area: Siru (10%); Mirchaya (10%) Basin Area: <i>Eugenia jambola</i> (1%) <i>Mangifera indica</i> (10%) <i>Saraca asoca</i> (1%) <i>Cynodon dactylon</i> (15%)

## E. Socio-Economy at Basin

Nearby settlement	Dhamaura village; 200m from lake; Main trail: Dhamaura ko bato
Land use	Agricultural land 50%; Grassland:5%; Settlement:20%; Lake-25%
Demography	Population: 1583; Male:765; Female:818; HHS: 279; (NPHC 2011); Caste: Brahmin/Chettri (5%); Janajati (30%); Dalit (60%); Others (5%); Major Religion: Hindu; Major Dialect: Bajika
Education	Primary level (80%); School level certificate (+2) (10%); University level (10%)
Occupation	Agriculture (85%), Employment (5%), Trade and business (5%); wages and labor (5%)
Jurisdiction/ownership	Trust
Wetlands dependent community	None
Livestock at basin	<i>Bos Taurus</i> (LN: Cow; LU: Domestication) (About 50), (LN: Horse; LU: Domestication) (About 50-60); <i>Bubulus bubulis</i> (LN: Buffaloes; LU: None) ;(About 50)
Traditional production system	None
Traditional water use practices	1 religious pond
Cultural record	None
Genesis/origin of lake	NA

## F. Ecosystem Goods/Services

Provisional services	Fishing
Cultural services	Aesthetic and religious services as in the festivals like chat and Ramnavami

## G. Restoration/Management

Structural management	None
Non-structural management	None
Conservation plan	None
Monitoring plan	None.

**H. Tourism information**

None

**I. Lake condition**

Degrading



#### 4. Gaur Pokhari

Code: P2-D5-004

Toposheet no: 2685-02C and 06A

Date of inventory: May 22 2013

Compiler's name: Anju Rana,  
Jeevan Chhetri, Saroj Pokheral,  
Pabitra Basnet



##### A. General Feature

Conservation status

None

Geographical coordination

Lat.: 26°45'45.4"N; Lon.: 85°16'44"E; Alt.:60 amsl.

Geographical position

Terai

Administrative feature

CDR; Rautahat district; Gaur VDC; Gaur chowk  
(Currently: Gaur Municipality; Ward no. 1)

Boundary

Core Area: Gaur village in east, west and south and Road in North; Basin area: Settlement in east, west and south and Road in North

Management Responsibility

Government (Municipality)

Wetlands type

Freshwater/ natural; Lacustrine; Permanent.

##### B. Ecological Feature

Climatic feature

Avg. Mean Temp of Gaur: 25.3 °C (2001-2006); Lowest annual temperature of Rautahat:25.3°C. (Source: Terai Arc Landscape 2006); Avg annual precipitation:2013mm (DHM and ESN 2006)

Physical feature

Area

Core Area:4.02ha; Avg. Length: 400m; Avg. Width: 100m; Avg. Depth: 2.4 m; Max-Min Surface Water Level: 1.5–3.4m;

##### C. Hydrological feature

Water Volume

Peak Period: 136680m<sup>3</sup>; Dry period: 60,300m<sup>3</sup>; Inlet: None

Water quality

Physicochemical parameter: Temp.: 28 °C; pH: No change  
Soil feature: Grey color; Clay

Shocks/vulnerability

None

##### D. Biological feature

Major aquatic plants

Phytoplankton: None; Zooplankton: None

Core Area; None Major plants in basin: None

Fish

Labio rohita (LN: Rohu; LU: meat); Hypophthalmic molitrix (LN: Silver; LU: meat); Ctenoharyngodon idella (LN: Grass carp; LU: meat)

Birds

..... (LN: Kingfisher; LU: None); Grus grus (LN: Crane; LU: None)

Invertebrates	... (LN: Mosquito; LU: None); (LN: Housefly; LU: None)
Invasive alien species	None
Endemic plant/animal	Plant: None. Animal: None
Abundance of plants	Core Area: None; Basin Area: None
Biomass in core area	None

### **E. Socio-Economy at Basin**

Nearby settlement	VDC chowk; 20m from lake; Main trail: Khanepaniko bato
Land use	Shrub land-25%; Grass land-10%; Agriculture -5%; Lake-20%; settlement-50%
Demography	Population: 1641; Male:766; Female: 875; HHs: 390; (NPHC 2011) Caste: Brahmin/Chettri (5%); Janajati (40%); Dalit (30-40%); Others (15%); Major Religion: Hindu and muslim; Major Dialect: Bhojpuri, hindi, Maithili, Bajika, Nepali)
Education	Primary level (20-40%); School level certificate (+2) (90%); University level (30%).
Occupation	Agriculture (75%); Employment (6%); Trade and business (40%); Tourism (5%)
Jurisdiction/ownership	State
Wetlands dependent community	Majhi (Malahar) community; HH-2; Distance-1km; Literacy rate:100%; Annual income-240000/HH
Livestock at basin	Horse: Approx 100
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	The lake is believed to be since the Rana regime during Dev Sumser whose name is written in the bell of Shivamandir nearby the lake.

### **F. Ecosystem Goods/Services**

Provisional services	Fish supply
Cultural services	None

### **G. Restoration/Management**

Structural management	1 sewerage system from the households at southern side of the lake
Non-structural management	None
Conservation plan	None
Monitoring plan	None.

### **H. Tourism information**

None

### **I. Lake condition**

Degrading.

## 5. Mahadev Pokhari

Code: P2-D5-005

Toposheet no: 2785-14C

Date of inventory: May 22 2013

Compiler's name: Anju Rana,  
Jeevan Chhetri, Saroj Pokheral,  
Pabitra Basnet



### A. General Feature

Conservation status	None
Geographical coordination	Lat.: 26o56'08.33"N; Lon.: 85o18'24.10"E; Alt.:87.4 amsl.
Geographical position	Terai
Administrative feature	CDR; Rautahat district; Pothiyahi VDC; Shivanagar (Currently: Garuda Municipality; Ward no. 5)
Boundary	Core Area: Agricultural land in wesr and south; Road in East and Settlement in North; Basin area: Birendra highway in west; Settlement in east and agriculture in south and north
Management Responsibility	Community (Mahadev temple management committee)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Lowest annual temperature of Rautahat:25.3°C. (Source: Terai Arc Landscape 2006); Avg annual precipitation:2013mm (DHM and ESN 2006)
Physical feature	
Area	Core Area: 1 ha; Avg. Length: 100m; Avg. Width: 75m; Avg. Depth: 1.5m; Max-Min Surface Water Level: 0.5–3m;

### C. Hydrological feature

Water Volume	Peak Period: 30000m <sup>3</sup> ; Dry period: 5000m <sup>3</sup> ; Inlet: None
Water quality	Physicochemical parameter: Temp.: 30 0C; pH: No change in blue and red litmus paper; Soil feature: Grey color; Clay
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	Phytoplankton: None; Zooplankton: None  Core Area; None Major plants in basin: Cynodon dactylon (HT: Gr; Lu: none); Imperata cylindrica (LN: Siru; HT: Gr; LU: None); Mangifera indica (LN: Mango; HT: Tr; LU: Fd); Eugenia jambola (LN: Jamun; HT: Tr; LU: Fd); Musa Acuminata (LN: Banana; HT: Tr; LU: Fd)
Fish	Hypophthalmic molitrix (LN: Silver; LU: meat); Ctenoharyngodon idella (LN: Grass carp; LU: meat); Labio rohita (LN: Rohu; LU: Meat)

Herpetofauna	Rana tigrina (LN: Frog; ON:5; LU: None)
Mammals	Bubulus bubalis (LN: Buffalo: ON:1; LU: Domestication for milk)
Invertebrates	None
Invasive alien species	None
Endemic plant/animal	Plant: None. Animal: None
Abundance of plants	Core Area: None Basin Area: Cynodon dactylon (20%); Imperata cylindrica (10%), Mangifera indica (30%); <i>Eugenia jambola</i> (20%)

### **E. Socio-Economy at Basin**

Nearby settlement	Shivanagar village; 100m from lake; Main trail: Birendra highway
Land use	Shrubland-15%; Agriculture-60%; Settlement:15%; Lake-5%
Demography	Population: 768; Male:393; Female:375; HHs: 110; (NPHC 2011); Caste: Brahmin/Chettri (less than 5%); Janajati (40%); Dalit (30%); Others (25%); Major Religion: Hindu; Major Dialect: Bhojpuri, hindi)
Education	Primary level (70%); School level certificate (+2) (20%); University level (less than 10%).
Occupation	Agriculture (90%); wage and labor (5%); Trade and business (5%)
Jurisdiction/ownership	Trust (Mahadev temple management committee)
Wetlands dependent community	None
Livestock at basin	Buffalo-25; Goat:50-60
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	NA

### **F. Ecosystem Goods/Services**

Provisional services	Drinking water for the domestic animals
Cultural services	None

### **G. Restoration/Management**

Structural management	None
Non-structural management	None
Conservation plan	None
Monitoring plan	None.

**H. Tourism information** None

**I. Lake condition** Degrading

## 6. Mahakar Pokhari

Code: P2-D5-006

Toposheet no: Map not available  
may be 2685 01B

Date of inventory: May 23 2013

Compiler's name: Anju Rana,  
Jeevan Chhetri, Saroj Pokharel,  
Pabitra Basnet



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°54'31.5"N; <u>Lon.</u> : 85°11'22.3 "E; <u>Alt.</u> : 73 amsl.
Geographical position	Terai
Administrative feature	CDR; Rautahat district; Pathara, Budharampur VDC; Mahakar (Currently: Maulapur Municipality; Ward no. 7)
Boundary	<u>Core Area</u> : Agriculture in east, west, south and north <u>Basin Area</u> : Agriculture in east, west, south and north
Management Responsibility	Government (VDC)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Lowest annual temperature of Rautahat: 25.3°C. (Source: Terai Arc Landscape 2006); Avg annual precipitation:2013mm (DHM and ESN 2006)
Physical feature	
Area	<u>Core Area</u> :2.68 ha; Avg. Length: 400m; Avg. Width: 300m; Avg. Depth: 2.7 m; Max-Min Surface Water Level: 1.8–2.7m;

### C. Hydrological feature

Water Volume	Peak Period: 93800m <sup>3</sup> ; Dry period: 67000m <sup>3</sup> ; Inlet: None; Outflow: None
Water quality	Physicochemical parameter: Temp.: 32 0C; pH: No change Soil feature: Dark Grey color; Clay
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	Phytoplankton: None Zooplankton: None Core Area; None Basin area: Ficus religiopsa (LN: Peepal; HT: Tr; Lu: Rel); Ficus beganlensis (LN: Bar; HT: Tr; LU: Rel) ..... (LN: Imlee; HT: Tr; Lu: Food) ;(LN: Gachi; HT: Tr; LU: None) ;(LN: Thotarlate; HT: Sh; LU: None)
Fish	(Introduced) Labio rohita (LN: Rohu; LU: meat); Hypophthalmic molitrix (LN: Silver; LU: meat); ... (LN: Bigred;

	LU: Meat); <i>Ctenoharyngodon idella</i> (LN: Grass carp; LU: meat)
Herpetofauna	<i>Rana tigrina</i> (LN: Frog; ON:3; LU: None)
Birds	<i>Casmerodius albus</i> (LN: Bakulla; ON:2; LU: None); <i>Grus grus</i> (LN: Crane; LU: None) ;(LN: Gairi; LU: None); (LN: Pandubi; LU: None)) <i>Corvus brachyrhynchos</i> (LN: crow; ON: 5; Migratory)
Invertebrates	..... (LN: Earthworm; LU: None); (LN: Butterfly; ON:10; LU: None)
Invasive alien species	..... (LN: Thotarlate; Co:10%; Basin area
Endemic plant/animal	Plant: None. Animal: None
Abundance of plants	Core Area: None Basin Area: Gachi (2-3%); <i>Imlee</i> (2%); <i>Thotarlate</i> (10%) <i>Ficus religiopsa</i> (2%); <i>Ficus bengalensis</i> (2%)

### E. Socio-Economy at Basin

Nearby settlement	Bushramthara village; 9km from lake; Main trail: Budharam-Gaur road
Land use	Forest land-5%; Grass land-5%; Agriculture -60%; Lake-30%
Demography	No settlement
Education	Primary level; School level certificate (+2); University level.
Occupation	NA
Jurisdiction/ownership	State
Wetlands dependent community	None
Livestock at basin	NA
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	NA

### F. Ecosystem Goods/Services

Provisional services	Aesthetic value
Cultural services	Religious value (Chhat)

### G. Restoration/Management

Structural management	None
Non-structural management	No informal rules but due to the religious belief the people donot pollute the lake
Conservation plan	None
Monitoring plan	None.

### H. Tourism information

I. Lake condition	Good
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## 7. Mardhar Pokhari

Code: P2-D5-007

Toposheet no: 2785-14C

Date of inventory: May 22 2013

Compiler's name: Anju Rana,  
Jeevan Chhetri, Saroj Pokheral,  
Pabitra Basnet



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 27°05'13.2"N; <u>Lon.</u> : 85°21'28.6 "E; <u>Alt.</u> : 104 amsl.
Geographical position	Terai
Administrative feature	CDR; Rautahat district; Santapur VDC; ward no 8; Mardhar (Currently: Chandrapur Municipality; Ward no. 8)
Boundary	<u>Core Area</u> : Agricultural land in east, west, and south and Road in North; <u>Basin Area</u> : Agriculture in west and east, settlement (Sanatpur village) in south and north
Management Responsibility	Government
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Lowest annual temperature of Rautahat:25.3°C. (Source: Terai Arc Landscape 2006); Avg annual precipitation:2013mm (DHM and ESN 2006)
Physical feature	
Area	<u>Core Area</u> : 9.6 ha; Avg. Length: 500m; Avg. Width: 350m; Avg. Depth: 1.8 m; Max-Min Surface Water Level: 1.8–2.7m;

### C. Hydrological feature

Water Volume	Peak Period: 259200m <sup>3</sup> ; Dry period: 172800m <sup>3</sup> ; Inlet: None; Outflow:2 sluice gates
Water quality	<u>Physicochemical parameter</u> : Temp.: 32 °C; pH: Blue litmus changes into red Soil feature: Grey color; Clay
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	Phytoplankton: Spirogyra, Nostoc Zooplankton: None Core Area:Nelumbo nucifera(LN:Kamal;HT:Ff;LU:None);Pistia stratiotes (LN:water lettuce;HT:Ff;LU:None);Lemna minor(LN:Duckweed;HT:Ff;LU:None)Major plants in basin: <i>Paspalum sp.</i> (HT: Sh; LU:None); <i>Shorea robusta</i> (LN:Sal;HT:Tr;LU:Tm); <i>Alternanthera sp.</i> (HT:Sh;LU:None) <u>Basin area</u> : <i>Ficus religiopsa</i> (LN:Peepal;HT: Tr; Lu:Rel); <i>Dalbergia sissau</i> (LN:Sissau; HT: Tr; LU:
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	Tim) <i>Mangifera indica</i> (LN:Mango;HT: Tr; Lu:Food); <i>Eucalyptus</i> sp.(HT: Tr; LU: Tim); <i>Madhuca longifolia</i> (LN:Mewa;HT:Tr;LU:Food); <i>Bambusa vulgaris</i> (LN:Bamboo;HT:Tr:LU:Tm); <i>Ficus religiopsa</i> (LN:Peepal;HT: Tr; Lu:Rel); <i>Solanum</i> sp. (HT:Sh;LU:None)
Fish	(Introduced) Labio rohita (LN: Rohu; LU: meat); Hypophthalmic molitrix (LN: Silver; LU: meat); ... (LN: Israil; LU: meat); ... (LN: Bigred; LU: Meat); Ctenoharyngodon idella (LN: Grass carp; LU: meat); (LN: Chhadi; LU: meat); (LN: Naini; LU: Meat)
Wallago	attu (LN: Buhari; LU: meat); Machrobrachium sp (LN: Singi; LU: meat); Penaeu sp. (LN: Jhinge; LU: meat) ;(LN: Hile garai; LU: Meat)
Herpetofauna	LN: Dhodia saap;LU: None); (LN: Masar gidhi saap; LU: none);. (LN: Gohu; LU: none); <i>Lissemys punctata</i> (LN: Tortoise; LU: none)
Birds	<i>Casmerodius albus</i> (LN: Bakulla; ON:2; LU: None); Grus grus (LN: Crane; LU: None) ;(LN: Garud; LU: None); ... (LN: waterfowl; LU: None) ;(LN: Gairi; LU: None); (LN: Pandubi; LU: None)
Mammals	<i>Bos Taurus</i> (LN: Cow; ON:2; LU: Domestication for milk); (LN: Buffalo; ON:1; LU: Domestication for milk); <i>Capra argagrus</i> (LN: Goat; LU: Domestication for meat) ;(LN: Udh; LU: None)
Invertebrates	(LN: Malah kira; LU: None)
Invasive alien species	None
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : water lettuce (40%); Kamal (30%); Pater (2%); Duckweed (25%); Bishnuhari (1%); Alternanthera (2%); <u>Basin Area</u> : Dalbergia sissou (15%); <i>Mangifera indica</i> (2%); <i>Bambusa vulgaris</i> (5%) <i>Ficus religiopsa</i> (2%) <i>Eucalyptus</i> sp. (3%) <i>Madhuca longifolia</i> (1%)

## E. Socio-Economy at Basin

Nearby settlement	Mardhar village; 500m from lake; Main trail: Mardhar road
Land use	Forest land-5%; Shrub land-5%; Grass land-15%; Agriculture -40%; Lake-35%
Demography	Population: 823; Male:417; Female: 405; HHs: 121; (NPHC 2011) Brahmin/Chettri (15%); Janajati (35%%); Dalit (45%); Others (26.4%); Major Religion: Hindu; Major Dialect: Nepali (Asked to local people)
Education	Primary level (90%); School level certificate (+2) (15%); University level (5%).
Occupation	Agriculture (80%); Employment (10%); Fishing (5%); Trade and business (5%)
Jurisdiction/ownership	State
Wetlands dependent community	Malahar community; Population HH:10; Distance :15/16km; Literacy:50%; Annual income:180000/HH
Livestock at basin	Buffalo: 50-70; Goat: 250



Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	About 153 years ago the lake was the part of the Chandi river. With the time, the water in the river gradually decreased and the river made a new path leaving the water in the lake. That's why the lake is known as dead lake and named as mardhar lake.

#### **F. Ecosystem Goods/Services**

Provisional services	Irrigation water supply
Cultural services	None

#### **G. Restoration/Management**

Structural management	None
Non-structural management	None
Conservation plan	None
Monitoring plan	None.

**H. Tourism information**                      None

**I. Lake condition**                              Degrading.

## 8. Nagarpalika Pokhari

Code: P2-D5-008

Toposheet no: 2685-02C and 06A

Date of inventory: May 22 2013

Compiler's name: Anju Rana,  
Jeevan Chhetri, Saroj Pokheral,  
Pabitra Basnet



### A. General Feature

Conservation status

None

Geographical coordination

Lat.: 26°45'57.88"N; Lon.: 85°16'43.01"E; Alt.: 71 amsl.

Geographical position

Terai

Administrative feature

CDR; Rautahat district; Gaur VDC; Gaur  
(Currently: Gaur Municipality; Ward no. 1)

Boundary

Core Area: Gaur village in east, west and north; Agriculture in south; Basin area- Settlement in east, west and north and agriculture in the south

Management Responsibility

Government (Municipality)

Wetlands type

Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Mean Temp of Gaur: 25.3 °C (2001-2006); Lowest annual temperature of Rautahat:25.3°C. (Source: Terai Arc Landscape 2006); Avg annual precipitation:2013mm (DHM and ESN 2006)

Physical feature

Area

Core Area: 4.5 ha; Avg. Length: 400m; Avg. Width: 100m; Avg. Depth: 1.8 m; Max-Min Surface Water Level: 1.8-3m;

### C. Hydrological feature

Water Volume

Peak Period: 135000m<sup>3</sup>; Dry period: 81000m<sup>3</sup>; Inlet: None

Water quality

Physicochemical parameter: Temp.: 29 °C; pH: No change  
Soil feature: Dark Grey color; Clay

Shocks/vulnerability

None

### D. Biological feature

Major aquatic plants

Phytoplankton: None; Zooplankton: None

CoreArea; Eichornia crassipes (LN: Jalkumbhi; Ht: Ff; LU: None); Ipomea camea (LN Besaram; HT: Sh; LU: None); Rumex sp. (HT: Sh; LU: None) Major plants in basin: Paspalum sp. (HT: Sh; LU: None; *Shorea robusta* (LN: Sal:HT: Tr; LU: Tm); Alternanthera sp. (HT: Sh:LU: None) Basin area: Rumex sp. (HT: Sh; LU: None); Dalbergia sissau (LN: Sissau; HT: Tr; LU: Tm)

Mammals	(LN: Pig; ON:5; LU: Meat)
Invertebrates	None
Invasive alien species	Eichornia crassipes (90%); Besaram (10%)
Endemic plant/animal	Plant: None. Animal: None
Abundance of plants	Core Area: Eichornia crassipes (90%); Besaram (10%) (25%); Xanthium (1%); Alternanthera (1%); Basin Area: Dalbergia sissou (1%); Kanike jhar (10%); Lalupate (1%); Mirchaiya (1%)
Biomass in core area	None

### **E. Socio-Economy at Basin**

Nearby settlement	Gaur village; 5km from lake; Main trail: Gaur road
Land use	Shrub land-20%; Grass land-10%; Agriculture -40%; Lake-less than 5%; settlement-20%
Demography	Population: 1641; Male:766; Female: 875; HHs: 390; (NPHC 2011); Caste: Brahmin/Chettri (5%); Janajati (40%); Dalit (30-40%); Others (15%); Major Religion: Hindu and muslim; Major Dialect: Bhojpuri, hindi, Maithili, Nepali)
Education	Primary level (40%); School level certificate (+2) (12%); University level (5%).
Occupation	Agriculture (50%); Trade and business (50%)
Jurisdiction/ownership	No one
Wetlands dependent community	None
Livestock at basin	Pig (About 20)
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	NA

### **F. Ecosystem Goods/Services**

Provisional services	None
Cultural services	None

### **G. Restoration/Management**

Structural management	None
Non-structural management	None
Conservation plan	None
Monitoring plan	None.

<b>H. Tourism information</b>	None
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<b>I. Lake condition</b>	Degraded.
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## 9. Nunthar Pokhari

Code: P2-D5-009

Toposheet no: 2785-14C

Date of inventory: May 22 2013

Compiler's name: Anju Rana,  
Jeevan Chhetri, Saroj Pokheral,  
Pabitra Basnet



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°09'1.3"N; <u>Lon.</u> : 85°29'15.45"E; <u>Alt.</u> :187 amsl.
Geographical position	Terai
Administrative feature	CDR; Rautahat district; Paurai VDC; Nunthar (Currently: Chandrapur Municipality; Ward no. 1)
Boundary	<u>Core Area</u> : Picnic park in all direction; <u>Basin area</u> : Agricultural land on east, settlement in west, and south and grassland in North
Management Responsibility	Government
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Lowest annual temperature of Rautahat: 25.3°C. (Source: Terai Arc Landscape 2006); Annual ppt ;2013mm in 2005 (DHM and Environmental statistics of Nepal, 2006)
Physical feature	
Area	<u>Core Area</u> : 1 ha; Avg. Length: 100m; Avg. Width: 50m; Avg. Depth: 0.91 m; Max-Min Surface Water Level: 0.91–2m;

### C. Hydrological feature

Water Volume	Peak Period: 20000m <sup>3</sup> ; Dry period: 9100m <sup>3</sup> ; Inlet: None
Water quality	<u>Physicochemical parameter</u> : Temp.: 27 °C; pH: No change in blue and red litmus paper; Soil feature: Dark Grey color; Clay
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	Phytoplankton: None; Zooplankton: None Core Area; None Major plants in basin: Alternanthera sp. (HT: Sh; LU: None); Rumex sp (HT: Sh; LU: None)
Herpetofauna	Rana tigrina (LN: Frog; ON:5; LU: None)
Invertebrates	None

Invasive alien species	None
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : None <u>Basin Area</u> : <i>Alternanthera sp</i> (5%); Rumex sp (2%)

### **E. Socio-Economy at Basin**

Nearby settlement	Nunthar village; 200m from lake; Main trail: Nunthar ko bato
Land use	Agricultural land 20%; Shrubland:20%; Settlement:40%; Lake-20%
Demography	Population: 1068; Male:527; Female: 541; HHs: 202; (NPHC 2011) Caste: Brahmin/Chettri (20%); Janajati (35%); Dalit (35%); Others (10%); Major Religion: Hindu; Major Dialect: Bhojpuri
Education	Primary level (80%); School level certificate (+2) (10%); University level (10%)
Occupation	Agriculture (85%), Employment (5%), Trade and business (5%); wages and labor (5%)
Jurisdiction/ownership	State
Wetlands dependent community	None
Livestock at basin	Buffalos (100); Goats (500) Avg:2/HH
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	NA

### **F. Ecosystem Goods/Services**

Provisional services	None
Cultural services	None

### **G. Restoration/Management**

Structural management	None
Non-structural management	None
Conservation plan	None
Monitoring plan	None.

### **H. Tourism information**

None

### **I. Lake condition**

Degrading

Invasive alien species	None
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : None <u>Basin Area</u> : <i>Alternanthera sp</i> (5%); Rumex sp (2%)

### **E. Socio-Economy at Basin**

Nearby settlement	Nunthar village; 200m from lake; Main trail: Nunthar ko bato
Land use	Agricultural land 20%; Shrubland:20%; Settlement:40%; Lake-20%
Demography	Population: 1068; Male:527; Female: 541; HHs: 202; (NPHC 2011) Caste: Brahmin/Chettri (20%); Janajati (35%); Dalit (35%); Others (10%); Major Religion: Hindu; Major Dialect: Bhojpuri
Education	Primary level (80%); School level certificate (+2) (10%); University level (10%)
Occupation	Agriculture (85%), Employment (5%), Trade and business (5%); wages and labor (5%)
Jurisdiction/ownership	State
Wetlands dependent community	None
Livestock at basin	Buffalos (100); Goats (500) Avg:2/HH
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	NA

### **F. Ecosystem Goods/Services**

Provisional services	None
Cultural services	None

### **G. Restoration/Management**

Structural management	None
Non-structural management	None
Conservation plan	None
Monitoring plan	None.

<b>H. Tourism information</b>	None
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<b>I. Lake condition</b>	Degrading
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## Zooplankton: NA

Core Area: *Nymphaea* sp (HT: Sm, LU: Orn), *Eichhornea* sp (HT: Sm, LU: Fd for pig).

Major plants in basin	<i>Mangifera indica</i> (LN: Aap; HT: Tr; LU: fruit); <i>Bambuseae</i> spp (LN: Bans; HT: Hr; LU: Multi proposes); <i>Dalbergia sissoo</i> (LN: Sissoo; HT: Tr; LU: Tm); <i>Cynodon dactylon</i> (LN: Dubo; HT: Hr; LU: religious use );); <i>Dalbergia sissoo</i> (LN: Sissoo; HT: Tr; LU: Tm); <i>Vitex negundo</i> (LN: Simali; HT: Sh; LU: Ful); <i>Psidiumguajava</i> (LN: Aamba; HT: Tr; LU: Food); <i>Eucalyptus</i> spp (LN: Masala; HT: Tr; LU: Tm); <i>Albizia procera</i> (LN: Seto siris; HT: Tr; LU: Ful).
Fish	<i>Wallago attu</i> (LN: Buhari; N/C: 22; LU: Meat); <i>Mystus seenghala</i> (LN: Tengri; N/C: 27; LU: Meat); <i>Clupisoma gaura</i> (LN: Jalkapoor; N/C: 16; LU: Meat); <i>Heteropneustes fossiis</i> (LN: Singi; N/C: 4; LU: Meat).
Herpetofauna	<i>Natrix stolata</i> (LN: Hara hara sarpa, ON: 1); <i>Amphiesma stolatum</i> (LN: Dhoriya sarpa, ON: 1); <i>Varanus</i> spp (LN: Gohoro; ON: 1).
Birds	<i>Pichnonothus</i> sp. (LN: Jureli; ON: 6; Migratory); <i>Corvus splendens</i> (LN: kaag; ON: 10); <i>Pythonmolurus domesticus</i> (LN: Bhagera; ON: 36) <i>Arde cinera</i> (LN: Bakulla; ON: 8); <i>leptotilos dubius</i> (LN: Gadur; ON: 2).
Mammals	<i>Callosircus pygerythrus</i> (LN: Lokharke; EN: Squirrel; ON: 0); <i>Hystrix indica</i> (LN: Dumsi; EN: Porcupine, ON: 0); <i>Herpestes</i> spp (LN: Nyauri; ON: 2).
Invasive alien species	Plants: <i>Eupatorium</i> spp (LN: Banmara, CO: 0%); <i>Eichhornea</i> sp (LN: Jalkhumbi, CO: 35%);(LN: Shankhe Kira, ON: 6).
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: <i>Nymphaea</i> sp (2%), <i>Eichhornea</i> sp (36%). Basin Area: <i>Mangifera indica</i> (30%); <i>Bambuseae</i> spp (12%) <i>Dalbergia sissoo</i> (8%); <i>Cynodon dactylon</i> (10%); <i>Vitex negundo</i> (10%); <i>Psidium guajava</i> (5%); <i>Eucalyptus</i> spp (20%); <i>Albizia procera</i> (5%).

## E. Socio-Economy at Basin:

Nearby settlement	Singrahi; 1 km from lake; Main trail: Rajbiraj- Belaha- Naya Tole- Singrahi.
Land use	Forest land (0%); Shrub land (3%); Grass land (11%); Agriculture (78%); Settlement (5%); Wetlands (1%); Others (2%);
Demography	Population: 320; Male: 130; Female: 190; HHs: 70; Brahmin/Chettri (0%); Janajati (0%); Dalit (30%); Others- (Jha, Mandal & Yadav: 70%); Major Religion: Hindu; Major Dialect: Maithali.
Education	Primary level (87%); School level certificate (+2) (20%); University level (2.5%).
Occupation	Agriculture (75%); Employment (4%); Trade/Business (2%); NTFPs (0%); Wages/Labour (80%); Remittance (5%); Others (2%).
Jurisdiction/ownership	State

Wetlands dependent community	None.
Livestock at basin	180 nos.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	Jha, Yadav & Mandal community lives in lake area.
Genesis/origin of lake	Not known.

**F. Ecosystem Goods/Services:**

Provisional services	Drinking Water for livestock; Irrigation water supply for Farm.
Cultural services	Historic site for Mushar, Shah & Sardar community; excursion site for students.

**G. Restoration/Management:**

Structural management	Earthdam & Afforestation.
Non-structural management	None.
Conservation plan	Not Available.
Monitoring plan	None.

**H. Tourism information:** None.

**I. Lake condition:** Degrading.



## 2. Jhola Daha (Gopit Ganga)

Code: P2-D6-002

Topo sheet no: 2686 08C

Date of inventory: May 26, 2013

Compiler's name: Suman Kafle



### A. General Feature:

Conservation status	None
Geographical coordination	Lat.: 26°52'52.2"N; Lon.: 87°26'8.6" E; Alt.: 110 amsl.
Geographical position	Terai, flat
Administrative feature	EDR: Saptari district: Lohajara VDC:09 wards: Vediya madh. (Currently: Chaubise Municipality; Ward no. 6)
Boundary	Core Area: Earth Dam & stone cliff in east; Shree Baba Banaskhandi CF in west; Shree Baba Banaskhandi CF in south; Grassland of Shree Baba Banaskhandi CF in north. <u>Basin Area</u> : Mahuli river in East; Thakur Baba CF in west; Mango garden & Banaskhandi Mandir in south; Shree Baba Banaskhandi CF in north.
Management Responsibility	Community Forest Users Groups of Shree Baba Banaskhandi CF.
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature:

Climatic feature	<u>Avg. Max: Temp.:</u> 36°C (Jun/Jul). <u>Avg. Min.:</u> 10°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 2.1 ha; Avg. Length: 300 m; Avg. Width: 70 m; <u>Avg. Depth</u> : 1 m; <u>Max-Min Surface Water Level</u> : 1 – 3 m; <u>Basin Area</u> : 92 ha.

### C. Hydrological feature

Water Volume	Peak Period: 63000 m <sup>3</sup> ; Dry period: 20000 m <sup>3</sup> ; Inlet: Small stream/Rainfall/Underground water and Discharge Rate: ... lts/s; Inlet: Kulo and Discharge Rate: 20 lts/s.
Water quality	<u>Physicochemical parameter</u> : Temp.: 22°C; pH: 6.8; Transparency: 15.25 cm
Soil feature	Grey and dark color, sandy clay loam texture.
Shocks/vulnerability	Not available

### D. Biological feature

Major aquatic plants	Phytoplankton: NA
Zooplankton: NA	

	<u>Core Area</u> : <i>Nymphaea sp</i> (HT: Sm, LU: Orn), <i>Eichhornea sp</i> (HT: Sm, LU: Fd for pig); <i>Rorippa nasturtium-aquaticum</i> (LN: Sim sag; HT: Hr; LU: Food); <i>Trapa spp</i> (LN: Makhan; HT: Hr; LU: Religious use);
Major plants in basin	Bambuseae spp (LN: Baas ; HT: Tr ; LU: Tm & Religious use) ; <i>Mangifera indica</i> (LN: Aap ; HT: Tr; LU: fruit); <i>Shorea robusta</i> (LN: Sal ; HT: Tr; LU: Tm); <i>Acacia catechu</i> (LN: Khayer ; HT: Tr; LU: Tm, Ful); <i>Terminalia alata</i> (LN: saj; HT: Tr; LU: Tm ); <i>Syzygium cumini</i> ( LN: Jamun; HT: Tr; LU: Fd); <i>Ficus bengelensis</i> (LN: Bar; HT: Tr; LU: Tm, resin); <i>Bombax ceiba</i> (LN: Simal; HT: Tr ; LU: Tm, Fd); <i>Cynodon dactylon</i> (LN: Dubo; HT: Hr ; LU: religious use); <i>Vitex negundo</i> (LN: Simali; HT: Sh; LU: Ful); <i>Albizia procera</i> (LN: Seto siris; HT: Tr; LU: Ful ); <i>Ficus religiosa</i> ( LN: Pipal; HT: Tr; LU: Religious use );
Fish	<i>Amphipnous cuchia</i> (LN: Hiie Bam; N/C: 2; LU: Meat); <i>Wallago attu</i> (LN: Buari; N/C: 25; LU: Meat); <i>Mystus seenghala</i> (LN: Tengri; N/C: 23; LU: Meat); <i>Anguilla bengalaensis</i> (LN: Raj Bam; N/C: 2; LU: Meat); <i>Clupisoma gaura</i> (LN: Jalkapoor; N/C: 12; LU: Meat); <i>Notopterus chitala</i> (LN: Patali; N/C: 9; LU: Meat); <i>Heteropneustes fossiis</i> (LN: Singi; N/C: 8; LU: Meat).
Herpetofauna	<i>Natrix stolata</i> (LN: Hara hara sarpa, ON: 0); <i>Ptyas mucosus mucosus</i> (LN: Dhaman sarpa, ON: 1); <i>Amphiesma stolatum</i> (LN: Dhoriya sarpa, ON: 2); <i>Varanus spp</i> (LN: Gohoro; ON: 1).
Birds	<i>Pichnonothus sp.</i> (LN: Jureli; ON: 9; Migratory); <i>Corvus splendens</i> (LN: kaag; ON: 5); <i>Lophura leucomelanes</i> (LN: kaliz; ON: 5); <i>Urocissa spp</i> (LN: Lampuchre; ON: 2); <i>Pythonmolurus domesticus</i> (LN: Bhagera; ON: 60) <i>Arde cinera</i> (LN: Bakulla; ON: 25); <i>leptotilos dubius</i> (LN: Gadur; ON: 5); <i>Streptopelia Decaocto</i> (LN: Dhukur; ON: 2).
Mammals	<i>Callosircus pygerythrus</i> (LN: Lokharke; EN: Squirrel; ON: 3); <i>Hystrix indica</i> (LN: Dumsi; EN: Porcupine, ON: 1); <i>Macacca mulatta</i> (LN: Rato badar; ON: 3); <i>Herpestes spp</i> (LN: Nyauri; ON:1); <i>Canis aureus</i> (LN: Syal; ON: 1);
Invasive alien species	<u>Plants</u> : <i>Eupatorium sp</i> (LN: Banmara, CO: 15%); <i>Eichhornea sp</i> (LN: Jalkhumbi, CO: 15%); (LN: Shankhe Kira, ON: 5).
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None.
Abundance of plants	<u>Core Area</u> : <i>Trapa spp</i> (90%), <i>rorippa nasturtium-aquaticum</i> (2%), <i>Nymphaea sp</i> (2%), <i>Eichhornea sp</i> (6%).  Basin Area: <i>Mangifera indica</i> (7%) <i>Shorea robusta</i> (62%); <i>Acacia catechu</i> (3%); <i>Terminalia alata</i> (2%); <i>Syzygium cumini</i> (2%); <i>Ficus bengelensis</i> (1%); <i>Ficus religiosa</i> (1%); <i>Bombax ceiba</i> (3%); <i>Cynodon dactylon</i> (11%); <i>Vitex negundo</i> (7%); <i>Albizia procera</i> (1%).

## E. Socio-Economy at Basin

Nearby settlement	Kanchanpur; 10 km from lake; Main trail; Rajbiraj-Hulak Sadak-Bode Barshin-Kusmahar.
Land use	Forest land (47%); Shrub land 6%); Grass land (10%); Agriculture (22%); Settlement (4%); Wetlands (8%); Others (3%);

Demography	Population: 198; Male: 81; Female: 117; HHs:45; Brahmin/Chettri (0%); Janajati (0%); Dalit (15%); Others- (Mukhiya & Shah: 85%); Major Religion: Hindu; Major Dialect: Maithali.
Education	Primary level (0%); School level certificate (+2) (2%); University level (0%).
Occupation	Agriculture (33.33%); Employment (0%); Trade/Business (0%); NTFPs (5%); Wages/Labour (80%); Remittance (5%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	105 nos.
Traditional production system	None.
Traditional water use practices	Religious/ritual pond (1) & Bar Tree (Big) near Temple.
Cultural record	Sardar (Bantar) and Mushar community lives in lake area.
Genesis/origin of lake	Banaskhandi Baba use to bath here as a Gopit Ganga & place his bag near the pond, so it named as Gopit Ganga & Jhola Daha.

#### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock; fishery; timber; fuelwood; fodder/forage; wild fruit.
Cultural services	Historic site for Mushar, Shah & Sardar community; excursion site for students.

#### **G. Restoration/Management**

Structural management	Loose stone checkdam, afforestation.
Non-structural management	Informal restriction.
Conservation plan	Available.
Monitoring plan	None.

#### **H. Tourism information**

Good picnic spot; Needs improvement in infrastructure and human resource.

#### **I. Lake condition**

Degrading.

### 3. Lohajara Thakur Daha

Code: P2-D6-003

Topo sheet no: 2686 08C

Date of inventory: May 25, 2013

Compiler's name: Suman Kafle



#### A. General Feature:

Conservation status	None.
Geographical coordination	<u>Lat.:</u> 26°36'59.10"N; <u>Lon.</u> 86°50'26.02" E; <u>Alt.:</u> 114 amsl.
Geographical position	Terai, flat
Administrative feature	EDR: Saptari district: Lohajara VDC:03 wards: Lohajara Village. (Currently: Tirahut Municipality; Ward no. 5)
Boundary	<u>Core Area:</u> Earth Dam in east; Hilly Slope in west: Mango garden in south; Thakur Baba CF in north. <u>Basin Area:</u> Shree Baba Banaskhandi CF in East: in west; Agriculture Land in south: Thakur Baba CF in north.
Management Responsibility	Community Forest Users Groups of Thakur Baba CF.
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

#### B. Ecological Feature:

Climatic feature	<u>Avg. Max: Temp.:</u> 36°C (Jun/Jul). <u>Avg. Min.:</u> 10°C (Dec).
Physical feature	
Area	<u>Core Area:</u> 3.77 ha; Avg. Length: 290 m; Avg. Width: 130 m; <u>Avg. Depth:</u> 2 m; <u>Max-Min Surface Water Level:</u> 1.5 – 3.5 m; <u>Basin Area:</u> 78 ha.

#### C. Hydrological feature

Water Volume	Peak Period: 188500 m <sup>3</sup> ; Dry period: 56550 m <sup>3</sup> ; Inlet: Small stream/Rainfall and Discharge Rate: ... lts/s; Inlet: Kulo and Discharge Rate: 300 lts/s.
Water quality	<u>Physicochemical parameter:</u> Temp.: 23 °C; pH: 7; Transparency: 15 cm
Soil feature	Grey and dark color, sandy clay loam texture.
Shocks/vulnerability	Not available

#### D. Biological feature

Major aquatic plants	Phytoplankton: ..... Core Area: Nymphaea spp (HT: Sm, LU: Orn), Eichhornea spp (HT: Sm, LU: Fd for pig).
Major plants in basin	Mangifera indica (LN: Aap ; HT: Tr; LU: fruit) <i>Shorea robusta</i> (LN: Sal ; HT: Tr; LU: Tm); <i>Acacia catechu</i> (LN: Khayer ; HT: Tr; LU: Tm, Ful); <i>Terminalia alata</i> (LN: saj; HT: Tr; LU: Tm );

	<i>Syzygium cumini</i> ( LN: Jamun; HT: Tr; LU: Fd); <i>Ficus bengelensis</i> (LN: Bar; HT: Tr; LU: Tm, resin) <i>Bombax ceiba</i> (LN: Simal; HT: Tr ; LU: Tm, Fd); <i>Terminalia bellerica</i> (LN:Barro; HT: Tr; LU: Fd ); <i>Cynodon dactylon</i> (LN: Dubo; HT: Hr ; LU: religious use); <i>Vitex negundo</i> (LN: Simali; HT: Sh; LU: Ful); <i>Albizia procera</i> (LN: Seto siris; HT: Tr; LU: Ful ); <i>Piper bettle</i> (LN: Paan; HT: Cli; LU: Food )
Fish	Amphipnous cuchia (LN: Hiie Bam; N/C: 2; LU: Meat); Wallago attu (LN: Buari; N/C: 25; LU: Meat); <i>Mystus seenghala</i> (LN: Tengri; N/C: 23; LU: Meat); <i>Anguilla bengalaensis</i> (LN: Raj Bam; N/C: 2; LU: Meat); <i>Clupisoma gaura</i> (LN: Jalkapoor; N/C: 12; LU: Meat); <i>Silondia silondia</i> (LN: Bachawa; N/C: 8; LU: Meat).
Herpetofauna	<i>Natrix stolata</i> (LN: Hara hara sarpa, ON: 3); <i>Ptyas mucosus mucosus</i> (LN: Dhaman sarpa, ON: 1); <i>Amphiesma stolatum</i> (LN: Dhoriya sarpa, ON: 1); <i>Varanus flavescens</i> (LN: Sun gohoro; ON: 0)
Birds	<i>Pichnonothus</i> sp. (LN: Jureli; ON: 9; Migratory); <i>Corvus splendens</i> (LN: kaag; ON: 5); <i>Lophura leucomelanes</i> (LN: kaliz; ON: 5); <i>Urocissa</i> spp (LN: Lampuchre; ON: 2); <i>Pythonmolurus domesticus</i> (LN: Bhagera; ON: 60)
Mammals	<i>Calloscirus pygerythrus</i> (LN: Lokharke; EN: Squirrel; ON: 3); <i>Hystrix indica</i> (LN: Dumsi; EN: Porcupine, ON: 1); <i>Moschus chrysogaster</i> (LN: Kasturi Mirga; EN: Musk Deer, ON: 1); <i>Macacca mulatta</i> (LN: Rato badar; ON: 3); <i>Herpestes</i> spp (LN: Nyauri; ON:1); <i>Canis aureus</i> (LN: Syal; ON: 1); <i>Lepus nigricollis</i> (LN: Kharayo; ON: 2)
Invasive alien species	<u>Plants</u> : <i>Eupatorium</i> sp (LN: Banmara, CO: 25%); <i>Eichhornea</i> sp (LN: Jalkhumbi, CO: 15%)..... (LN: Shankhe Kira, ON: 5).
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None.
Abundance of plants	<u>Core Area</u> : <i>Nymphaea</i> sp (20%), <i>Eichhornea</i> sp (15%). <u>Basin Area</u> : <i>Shorea robusta</i> (60%); <i>Acacia catechu</i> (5%); <i>Terminalia alata</i> (3%); <i>Mangifera indica</i> (6%); <i>Ficus bengelensis</i> (1%); <i>Bombax ceiba</i> (2%); <i>Vitex negundo</i> (6%); <i>Albizia procera</i> (1%.); <i>Terminalia bellerica</i> (2%); <i>Piper bettle</i> (1%); <i>Ficus religiosa</i> (1%); <i>Cynodon dactylon</i> (11%);

## E. Socio-Economy at Basin:

Nearby settlement	Mahuli Bazar; 7 km from lake; Main trail: Mahuli -Baugduha-Dimar -Lohajara.
Land use	Forest land (40%); Shrub land (5%); Grass land (10%); Agriculture (11%); Settlement (2%); Wetlands (10%); Others (2%);
Demography	Population: 87; Male: 35; Female: 52; HHs: 11; Brahmin/Chettri (0%); Janajati (0%); Dalit (95%); Others (5%); Major Religion: Hindu; Major Dialect: Maithali.
Education	Primary level (75%); School level certificate (+2) (0%); University level (0%).
Occupation	Agriculture (15%); Employment (0%); Trade/Business (0%); Fishing (5%) NTFPs (10%); Wages/Labour (70%); Remittance (5%).
Jurisdiction/ownership	State

Wetlands dependent community	None.
Livestock at basin	27 nos.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	Sardar (Bantar) and Mushar community lives in lake area.
Genesis/origin of lake	It is assumed that Lord Thakur Baba established this pond for bathing.

#### **F. Ecosystem Goods/Services:**

Provisional services	Water for livestock; fishery; timber; fuelwood; fodder/forage; wild fruit.
Cultural services	Historic site for yadav & sardar community; excursion site for students; local fair (mela) every new year i.e; Baisakh 1.

#### **G. Restoration/Management:**

Structural management	Earth dam, afforestation.
Non-structural management	Informal restriction.
Conservation plan	Available.
Monitoring plan	None.

#### **H. Tourism information:**

<4000 annual visitors; good picnic spot; Needs improvement in infrastructure and human resource.

#### **I. Lake condition:**

Degrading.

#### 4. Purnai Pokhari

Code: P2-D6-004

Topo sheet no: 2686 11B

Date of inventory: May 29, 2013

Compiler's name: Suman Kafle



##### A. General Feature:

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26°29'5"N; <u>Lon.</u> : 86°37'7"E; <u>Alt.</u> : 92 amsl.
Geographical position	Terai, flat
Administrative feature	EDR: Saptari district: Auhari VDC:07 wards: Phattepur, kataiya. (Currently: Dakneswori Municipality; Ward no. 6)
Boundary	<u>Core Area</u> : Mango Garden in east; Trishuli Dhar in west: Mango garden in south; Mango Garden in north. <u>Basin Area</u> : Agricultural land in East: Kataiya Villaga in west; Trishuli River in south: Nahar in north.
Management Responsibility	Community - Himalayan Club.
Wetlands type	Freshwater/ natural; Lacustrine; Seasonal.

##### B. Ecological Feature:

Climatic feature	<u>Avg. Max: Temp.</u> : 33°C (Jun/Jul). <u>Avg. Min.</u> : 9°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 0.99 ha; Avg. Length: 102 m; Avg. Width: 98 m; <u>Avg. Depth</u> : 2 m; <u>Max-Min Surface Water Level</u> : 1.5 – 2.5 m; <u>Basin Area</u> : 74 ha.

##### C. Hydrological feature

Water Volume	Peak Period: 24750 m <sup>3</sup> ; Dry period: 14850 m <sup>3</sup> ; Inlet: Nahar / Underground /Rainfall and Discharge Rate: ... lts/s; Inlet: Kulo and Discharge Rate: 16 lts/s.
Water quality	<u>Physicochemical parameter</u> : Temp.: 23°C; pH: 6.8; Transparency: 10cm;
Soil feature	Grey and dark color, sandy clay loam texture.
Shocks/vulnerability	Not available

##### D. Biological feature

Major aquatic plants	Phytoplankton: NA; Zooplankton: NA
Major plants in basin	Core Area: Nymphaea sp (HT: Sm, LU: Orn). Mangifera indica (LN: Aap; HT: Tr; LU: fruit); Ficus bengelensis (LN: Bar; HT: Tr; LU: Tm, resin); Ficus religiosa

	(LN: pipal; HT: Tr; LU: Religious use); <i>Cynodon dactylon</i> (LN: Dubo; HT: Hr; LU: religious use); <i>Vitex negundo</i> (LN: Simali; HT: Sh; LU: Ful); <i>Mimosa rubicaulis</i> (LN: Boksi Ghas; HT: Sh; LU: Fd); <i>Psidiumguajava</i> (LN: Aamba; HT: Tr; LU: Food); <i>Eucalyptus spp</i> (LN: Masala; HT: Tr; LU: Tm); <i>Morus alba</i> (LN: Kimbu; HT: Tr; LU: Fd)
Fish	Wallago attu (LN: Buhari; N/C: 25; LU: Meat); Clupisoma gaura (LN: Jalkapoor; N/C: 12; LU: Meat); Silondia silondia (LN: Bachawa; N/C: 8; LU: Meat); Claries batractus (LN: Mungri; N/C: 12; LU: Meat); Heteropneustes fossilis (LN: Singi; N/C: 8; LU: Meat)
Herpetofauna	Naja naja (LN: Goman sarpa, ON: 01); Amphiesma stolatum (LN: Dhoriya sarpa, ON: 1); Varanus spp. (LN: Gohoro; ON: 01)
Birds	Corvus splendens (LN: kaag; ON: 11); Lophura leucomelanes (LN: kaliz; ON: 5); Pythonmolurus domesticus (LN: Bhagera; ON: 72); Streptopelia chinensis (LN: Dhukur; ON: 04); Mergus merganser (LN: Kaure haans; ON: 02).
Mammals	Calloscirus pygerythrus (LN: Lokharke; EN: Squirrel; ON: 4); Canis aureus (LN: Syal; ON: 1); Lepus nigricollis (LN: Kharayo; ON: 1); Herpestes spp (LN: Nyauri musa; ON: 2); Chiroptera spp (LN: Chamera; ON: 5)
Invasive alien species	Plants: Eichhornea sp (LN: Jalkhumbi, CO: 15%); (LN: Shankhe Kira, ON: 5).
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: Nymphaea sp (20%), Eichhornea sp (15%). <u>Basin Area:</u> <i>Mangifera indica</i> (35%); <i>Ficus bengelensis</i> (8%); <i>Ficus religiosa</i> (8%); <i>Cynodon dactylon</i> (18%); <i>Vitex negundo</i> (5%); <i>Mimosa rubicauli</i> (7%); <i>Psidiumguajava</i> (9%); <i>Eucalyptus spp</i> (6%); <i>Morus alba</i> (4%)

### E. Socio-Economy at Basin:

Nearby settlement	Phattempur, Kataiya Bazar; 2 km from lake; Main trail: Rajbiraj-Sonara- Kataiya.
Land use	Forest land (30%); Shrub land (5%); Grass land (10%); Agriculture (40%); Settlement (3%); Wetlands (10%); Others (2%);
Demography	Population: 650; Male: 300; Female: 350; HHs: 108; Brahmin/Chettri (0%); Janajati (0%); Dalit (35%); Others (Mandal, Yadav= 65%); Major Religion: Hindu; Major Dialect: Maithali.
Education	Primary level (84%); School level certificate (+2) (23%); University level (4%).
Occupation	Agriculture (65%); Employment (3%); Trade/Business (18%); NTFPs (0%); Wages/Labour (45%); Remittance (5%); Others (3%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	240 nos.
Traditional production system	None.



Traditional water use practices	None.
Cultural record	Yadav & Mandal community lives in lake area.
Genesis/origin of lake	Not available.

**F. Ecosystem Goods/Services:**

Provisional services	Water for livestock; fishery; Mango garden.
Cultural services	Historic site for yadav community.

**G. Restoration/Management:**

Structural management	Earth dam.
Non-structural management	Informal restriction.
Conservation plan	Not available.
Monitoring plan	None.

**H. Tourism information:** None.

**I. Lake condition:** Degrading.

## 5. Sakuwayi Pond

Code: P2-D6-005

Topo sheet no: 2686-07D

Date of inventory: June 02, 2013

Compiler's name: Suman Kafle



### A. General Feature:

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26°34'39.6"N; <u>Lon.</u> : 86°33'15.45"E; <u>Alt.</u> : 86 amsl.
Geographical position	Terai, flat
Administrative feature	EDR: Saptari district: Sarshwor VDC: 08 wards: kusmahar. (Currently: Bodebarsain Municipality; Ward no. 6)
Boundary	<u>Core Area</u> : Sissoo & Mango Garden in east; Agricultural land in west: Agricultural land in south; Hulak Sadak in north. <u>Basin Area</u> : Kusmahar, ward no: - 08 in East; Pritampur, Ward no: - 01 in west; Phulkahi Village in sout; Hulak Sadak in north.
Management Responsibility	Community of Kusmahar, Ward no: -08, Village.
Wetlands type	Freshwater/ natural; Lacustrine; Seasonal.

### B. Ecological Feature:

Climatic feature	<u>Avg. Max</u> : <u>Temp.</u> : 35°C (Jun/Jul). <u>Avg. Min.</u> : 10°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 2.55 ha; Avg. Length: 150 m; Avg. Width: 170 m; <u>Avg. Depth</u> : 2 m; <u>Max-Min Surface Water Level</u> : 1.5 – 2 m; <u>Basin Area</u> : 82 ha.

### C. Hydrological feature

Water Volume	Peak Period: 51000 m <sup>3</sup> ; Dry period: 0 m <sup>3</sup> ; Inlet: Underground /Rainfall and Discharge Rate: ... lts/s; Inlet: Kulo and Discharge Rate: 13 lts/s.
Water quality	<u>Physicochemical parameter</u> : Temp.: 25°C; pH: 6.7; Transparency: 10 cm;
Soil feature	Grey color, clay loam texture.
Shocks/vulnerability	Not available

### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : NA Zooplankton: NA
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	<u>Core Area</u> : <i>Nymphaea sp</i> (HT: Sm, LU: Orn), <i>Eichhornia sp</i> (LN: Jal kumbi; HT: Sm, LU: ...); <i>Utricularia spp</i> (LN: Sim ghas; HT: Hr; LU: ....);
Major plants in basin	<i>Mangifera indica</i> (LN: Aap; HT: Tr; LU: fruit); <i>Syzygium cumini</i> (LN: Jamun; HT: Tr; LU: Fd); <i>Ficus bengelensis</i> (LN: Bar; HT: Tr; LU: Tm, resin); <i>Cynodon dactylon</i> (LN: Dubo; HT: Hr; LU: religious use); <i>Vitex negundo</i> (LN: Simali; HT: Sh; LU: Ful); <i>Psidium guajava</i> (LN: Amba; HT: Tr; LU: Food)
Fish	<i>Amphipnous cuchia</i> (LN: Hiie Bam; N/C: 2; LU: Meat); <i>Wallago attu</i> (LN: Buhari; N/C: 25; LU: Meat); <i>Mystus seenghala</i> (LN: Tengri; N/C: 23; LU: Meat); <i>Anguilla bengalaensis</i> (LN: Raj Bam; N/C: 2; LU: Meat); <i>Clupisoma gaura</i> (LN: Jalkapoor; N/C: 12; LU: Meat); <i>Silondia silondia</i> (LN: Bachawa; N/C: 8; LU: Meat).
Herpetofauna	<i>Natrix stolata</i> (LN: Hara hara sarpa, ON: 3); <i>Ptyas mucosus mucosus</i> (LN: Dhaman sarpa, ON: 1); <i>Amphiesma stolatum</i> (LN: Dhoriya sarpa, ON: 1); <i>tiliqua scincoides</i> (LN: Vale mungro; ON: 2)
Birds	<i>Pichnonothus sp.</i> (LN: Jureli; ON: 5; Migratory); <i>Corvus splendens</i> (LN: kaag; ON: 2); <i>Lophura leucomelanes</i> (LN: kaliz; ON: 1); <i>Urocissa spp</i> (LN: Lampuchre; ON: 2); <i>Pythonmolurus domesticus</i> (LN: Bhagera; ON: 12); <i>Alcedo atthis</i> (EN: King fisher; ON: 3)
Mammals	<i>Calloscirus pygerythrus</i> (LN: Lokharke; EN: Squirrel; ON: 3); <i>Herpestes spp</i> (LN: Nyauri; ON:1); <i>Lepus nigricollis</i> (LN: Kharayo; ON: 2)
Invasive alien species	<u>Plants</u> : <i>Eupatorium sp</i> (LN: Banmara, CO: 3%); <i>Eichhornea sp</i> (LN: Jalkhumbi, CO: 18%);(LN: Shankhe Kira, ON: 3).
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None.
Abundance of plants	<u>Core Area</u> : <i>Nymphaea sp</i> (3%), <i>Eichhornea sp</i> (18%).
	<u>Basin Area</u> : <i>Mangifera indica</i> (13%); <i>Syzygium cumini</i> (15%); <i>Ficus bengelensis</i> (2%); <i>Cynodon dactylon</i> (18%); <i>Vitex negundo</i> (10%) <i>Psidium guajava</i> (22%)

## E. Socio-Economy at Basin:

Nearby settlement	Rajbiraj; 18 km from lake; Main trail: Rajbiraj – Arnaha - Majhara
Land use	Forest land (0%); Shrub land (3%); Grass land (7%); Agriculture (45%); Settlement (20%); Wetlands (20%); Others (5%);
Demography	Population: 500; Male: 220; Female: 280; HHs: 100; Brahmin/Chettri (0%); Janajati (0%); Dalit (15%); Others (Mandal, Thakur, Chaudhary, Mushalman = 5%, 5%, 50%, 5%); Major Religion: Hindu & Musalman; Major Dialect: Maithali & Tharu
Education	Primary level (80%); School level certificate (+2) (20%); University level (11%).
Occupation	Agriculture (70%); Employment (10%); Trade/Business (8%); NTFPs (0%); Wages/Labour (53%); Remittance (20%).
Jurisdiction/ownership	State

Wetlands dependent community	None.
Livestock at basin	450 nos.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	Chaudhary community lives in Dhar area.
Genesis/origin of lake	Situwai dhar flow from Singaya village so it is named as Singaya dhar.

**F. Ecosystem Goods/Services:**

Provisional services	Drinking water for livestock; fishery; irrigation.
Cultural services	Historic site for Tharu community.

**G. Restoration/Management:**

Structural management	None.
Non-structural management	Informal restriction.
Conservation plan	Not available.
Monitoring plan	None.

**H. Tourism information:** None

**I. Lake condition:** Degrading.

## 6. Singrahi Pokhari

Code: P2-D6-006

Topo sheet no: 2686 11B

Date of inventory: June 04, 2013

Compiler's name: Suman Kafle



### A. General Feature:

Conservation status

None.

Geographical coordination

Lat.: 26°28'26.28"N; Lon.: 86°41'36.36" E; Alt.: 98 amsl.

Geographical position

Terai, flat

Administrative feature

EDR: Saptari district: Nargo VDC:03 wards: Belha.

(Currently: Dakneswori Municipality; Ward no. 7)

Boundary

Core Area: Samali Plantation in east; Sissoo & Siris Plantation in west; Mango Plantation in south; Masala Plantation in north.

Basin Area: Nahar in East; Mutni Dhar in west; Agricultural Land in south; Inaruwa Village in north.

Management Responsibility

Nargo VDC

Wetlands type

Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature:

Climatic feature

Avg. Max: Temp.: 36°C (Jun/Jul). Avg. Min.: 13°C (Dec).

Physical feature

Area

Core Area: 1.08 ha; Avg. Length: 120 m; Avg. Width: 90 m; Avg. Depth: 2m; Max-Min Surface Water Level: 0.5m – 1.5 m; Basin Area: 110 ha.

### C. Hydrological feature

Water Volume

Peak Period: 16200m<sup>3</sup>; Dry period: 5400m<sup>3</sup>; Inlet: Nahar & Underground water and Discharge Rate: ... Its/s; Inlet: Kulo and Discharge Rate: ... Its/s.

Water quality

Physicochemical parameter: Temp.: 24°C; pH: 6.8; Transparency: 12.50cm;

Soil feature

Grey color, Sandy Clay loam texture.

Shocks/vulnerability

This area is being decreasing by way of encroachment.

### D. Biological feature

Major aquatic plants

Phytoplankton: NA

Zooplankton: NA

Core Area: *Nymphaea sp* (HT: Sm, LU: Orn), *Eichhornea sp* (HT: Sm, LU: Fd for pig).

Major plants in basin	<i>Mangifera indica</i> (LN: Aap; HT: Tr; LU: fruit); <i>Bambuseae spp</i> (LN: Bans; HT: Hr; LU: Multi proposes); <i>Dalbergia sissoo</i> (LN: Sissoo; HT: Tr; LU: Tm); <i>Cynodon dactylon</i> (LN: Dubo; HT: Hr; LU: religious use );); <i>Dalbergia sissoo</i> (LN: Sissoo; HT: Tr; LU: Tm); <i>Vitex negundo</i> (LN: Simali; HT: Sh; LU: Ful); <i>Psidium guajava</i> (LN: Aamba; HT: Tr; LU: Food); <i>Eucalyptus spp</i> (LN: Masala; HT: Tr; LU: Tm); <i>Albizia procera</i> (LN: Seto siris; HT: Tr; LU: Ful).
Fish	Wallago attu (LN: Buhari; N/C: 22; LU: Meat); Mystus seenghala (LN: Tengri; N/C: 27; LU: Meat); Clupisoma gaura (LN: Jalkapoor; N/C: 16; LU: Meat); Heteropneustes fossiis (LN: Singi; N/C: 4; LU: Meat).
Herpetofauna	<i>Natrix stolata</i> (LN: Hara hara sarpa, ON: 1); <i>Amphiesma stolatum</i> (LN: Dhoriya sarpa, ON: 1); <i>Varanus spp</i> (LN: Gohoro; ON: 1).
Birds	<i>Pichnonothus sp.</i> (LN: Jureli; ON: 6; Migratory); <i>Corvus splendens</i> (LN: kaag; ON: 10); <i>Pythonmolurus domesticus</i> (LN: Bhagera; ON: 36) <i>Arde cinera</i> (LN: Bakulla; ON: 8); <i>leptotilos dubius</i> (LN: Gadur; ON: 2).
Mammals	<i>Calloscirus pygerythrus</i> (LN: Lokharke; EN: Squirrel; ON: 0); <i>Hystrix indica</i> (LN: Dumsi; EN: Porcupine, ON: 0); <i>Herpestes spp</i> (LN: Nyauri; ON: 2).
Invasive alien species	<u>Plants</u> : <i>Eupatorium sp</i> (LN: Banmara, CO: 0%); <i>Eichhornea sp</i> (LN: Jalkhumbi, CO: 35%);(LN: Shankhe Kira, ON: 6).
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None.
Abundance of plants	<u>Core Area</u> : <i>Nymphaea sp</i> (2%), <i>Eichhornea sp</i> (36%). Basin Area: <i>Mangifera indica</i> (30%); <i>Bambuseae spp</i> (12%); <i>Dalbergia sissoo</i> (8%); <i>Cynodon dactylon</i> (10%); <i>Vitex negundo</i> (10%); <i>Psidium guajava</i> (5%); <i>Eucalyptus spp</i> (20%); <i>Albizia procera</i> (5%).

### E. Socio-Economy at Basin:

Nearby settlement	Singrahi; 1 km from lake; Main trail: Rajbiraj- Belaha- Naya Tole- Singrahi.
Land use	Forest land (0%); Shrub land (3%); Grass land (11%); Agriculture (78%); Settlement (5%); Wetlands (1%); Others (2%);
Demography	Population: 320; Male: 130; Female: 190; HHs: 70; Brahmin/Chettri (0%); Janajati (0%); Dalit (30%); Others- (Jha, Mandal & Yadav: 70%); Major Religion: Hindu; Major Dialect: Maithali.
Education	Primary level (87%); School level certificate (+2) (20%); University level (2.5%).
Occupation	Agriculture (75%); Employment (4%); Trade/Business (2%); NTFPs (0%); Wages/Labour (80%); Remittance (5%); Others (2%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	180 nos.
Traditional production system	None.

Traditional water use practices	None.
Cultural record	Jha, Yadav & Mandal community lives in lake area.
Genesis/origin of lake	Not known.

**F. Ecosystem Goods/Services:**

Provisional services	Drinking Water for livestock; Irrigation water supply for Farm.
Cultural services	Historic site for Mushar, Shah & Sardar community;

**G. Restoration/Management:**

Structural management	Earthdam & Afforestation.
Non-structural management	None.
Conservation plan	Not Available.
Monitoring plan	None.

**H. Tourism information:** None.

**I. Lake condition:** Degrading.

## 7. Thani Pokhari

Code: P2-D6-007

Topo sheet no: 2686 07D

Date of inventory: May 31, 2013

Compiler's name: Suman Kafle



### A. General Features

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°35'13.63"N; <u>Lon.</u> : 86°33'29.38" E; <u>Alt.</u> : 93 amsl.
Geographical position	Terai, flat
Administrative feature	EDR: Saptari district: Sarshwor VDC:08 wards: Kusmahar. (Currently: Bodebarsain Municipality; Ward no. 3)
Boundary	<u>Core Area</u> : Sissoo garden in east; Bamboo & mango garden in west; Diwarthan Mandir in south; Agricultural land in north. <u>Basin Area</u> : Kusmahar, Ward.no 8 in East; Agricultural land in west; Hulaki Marga in south; Manuri Village in north.
Management Responsibility	None.
Wetlands type	Freshwater/ natural; Lacustrine; Seasonal.

### B. Ecological Features

Climatic feature	<u>Avg. Max: Temp.</u> : 36°C (Jun/Jul). <u>Avg. Min.</u> : 15°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 4.2 ha; Avg. Length: 200 m; Avg. Width: 210 m; <u>Avg. Depth</u> : 1 m; <u>Max-Min Surface Water Level</u> : 1 – 3 m; <u>Basin Area</u> : 90 ha.

### C. Hydrological feature

Water Volume	Peak Period: 126000 m <sup>3</sup> ; Dry period: 0 m <sup>3</sup> ; Inlet: Rainfall/Underground water and Discharge Rate: ... lts/s; Inlet: Kulo and Discharge Rate: 20 lts/s.
Water quality	<u>Physicochemical parameter</u> : Temp.: 28°C; pH: 6.9; Transparency: 14.50cm;
Soil feature	Grey and dark color, clay loam texture.
Shocks/vulnerability	from past 2 years it is going on drying.

### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : NA <u>Zooplankton</u> : NA  <u>Core Area</u> : <i>Nymphaea sp</i> (HT: Sm, LU: Orn), <i>Eichhornea sp</i> (HT: Sm, LU: Fd for pig); <i>Rorippanasturtium-aquaticum</i> (LN: Sim sag; HT: Hr; LU: Food).
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Major plants in basin	<i>Mangifera indica</i> (LN: Aap; HT: Tr; LU: fruit); <i>Bambuseae spp</i> (LN: Bans; HT: Hr; LU: Multi proposes); <i>Dalbergia sissoo</i> (LN: Sissoo; HT: Tr; LU: Tm); <i>Ficus bengelensis</i> (LN: Bar; HT: Tr; LU: Tm, resin); <i>Cynodon dactylon</i> (LN: Dubo; HT: Hr; LU: religious use); <i>Ficus religiosa</i> (LN: Pipal; HT: Tr; LU: Religious use);
Fish	<i>Wallago attu</i> (LN: Buhari; N/C: 25; LU: Meat); <i>Mystus seenghala</i> (LN: Tengri; N/C: 23; LU: Meat); <i>Clupisoma gaura</i> (LN: Jalkapoor; N/C: 12; LU: Meat); <i>Heteropneustes fossiis</i> (LN: Singi; N/C: 8; LU: Meat).
Herpetofauna	<i>Natrix stolata</i> (LN: Hara hara sarpa, ON: 1); <i>Ptyas mucosus mucosus</i> (LN: Dhaman sarpa, ON: 1); <i>Amphiesma stolatum</i> (LN: Dhoriya sarpa, ON: 0); <i>Varanus spp</i> (LN: Gohoro; ON: 1).
Birds	<i>Pichnonothus sp.</i> (LN: Jureli; ON: 12; Migratory); <i>Corvus splendens</i> (LN: kaag; ON: 8); <i>Pythonmolurus domesticus</i> (LN: Bhagera; ON: 26) <i>Arde cinera</i> (LN: Bakulla; ON: 4); <i>leptotilos dubius</i> (LN: Gadur; ON: 2).
Mammals	<i>Calloscirus pygerythrus</i> (LN: Lokharke; EN: Squirrel; ON: 4); <i>Hystrix indica</i> (LN: Dumsi; EN: Porcupine, ON: 01); <i>Herpestes spp</i> (LN: Nyauri; ON:2).
Invasive alien species	Plants: <i>Eupatorium sp</i> (LN: Banmara, CO: 25%); <i>Eichhornea sp</i> (LN: Jalkhumbi, CO: 20%); (LN: Shankhe Kira, ON: 6).
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: <i>Rorippa nasturtium-aquaticum</i> (2%), <i>Nymphaea sp</i> (1%), <i>Eichhornea sp</i> (8%).  Basin Area: <i>Mangifera indica</i> (32%); <i>Bambuseae spp</i> (28%); <i>Dalbergia sissoo</i> (18%); <i>Ficus bengelensis</i> (2); <i>Cynodon dactylon</i> (18); <i>Ficus religiosa</i> (2);

### E. Socio-Economy at Basin:

Nearby settlement	Kusmahar; 0.5 km from lake; Main trail: Rajbiraj- Bode Barsain-Kusmahar.
Land use	Forest land (0%); Shrub land (3%); Grass land (19%); Agriculture (63%); Settlement (10%); Wetlands (3%); Others (2%);
Demography	Population: 910; Male:407; Female: 503; HHs: 152; Brahmin/Chettri (0%); Janajati (0%); Dalit (33%); Others- (Chaudhary, Jha, Mukhiya, Yadav & Shah: 67%); Major Religion: Hindu; Major Dialect: Maithali & Tharu
Education	Primary level (92%); School level certificate (+2) (19%); University level (5%).
Occupation	Agriculture (70%); Employment (5%); Trade/Business (2%); NTFPs (0%); Wages/Labour (78%); Remittance (15%); Others (3%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	480 nos.
Traditional production system	None.
Traditional water use practices	Diwarthan Mandir.

Cultural record Chaudhary, Jha, Yadav & Shah community lives in lake area.  
Genesis/origin of lake Not known.

**F. Ecosystem Goods/Services:**

Provisional services Drinking Water for livestock; Irrigation water supply for Farm;  
Domestic Water supply for Washing Clothes; fodder/forage.  
Cultural services Historic site for Mushar, Shah & Sardar community; excursion  
site for students.

**G. Restoration/Management:**

Structural management Earthdam.  
Non-structural management Informal restriction.  
Conservation plan Available.  
Monitoring plan None.

**H. Tourism information:** None.

**I. Lake condition:** Degrading.

## Annex-23: Inventory of lakes in Sarlahi district

### 1. Betini Daha

Code: P2-D7-001

Toposheet no: 2685-15D...

Date of inventory: 07/02/070

Compiler's name: Saroj Pokhrel



#### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 27°08.702"N; <u>Lon.</u> : 88°38.150" E; <u>Alt.</u> : 130 amsl.
Geographical position	Terai
Administrative feature	CDR; Sarlahi district; Jabdi VDC; 03 wards; Jabdi Tole. (Currently: Lalbandi Municipality; Ward no. 3)
Boundary	<u>Core Area</u> : Nursery of District agricultural office in east, west and north. Settlement area in south. <u>Basin Area</u> : Betini forest in east, Lalbandi bazaar in north. Musermajhi village in south; baghbani area in west.
Management Responsibility	Jabdi VDC and Baghbani office, Jabdi.
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 42°C. <u>Avg. Min.</u> : 20°C.
Physical feature	
Area	<u>Core Area</u> : 4 hec.; Avg. Length: 350 m; Avg. Width: 155m; Avg. Depth: 4.5 m; Max-Min Surface Water Level: 6.7m– 2.4 m;

#### C. Hydrological feature

Water Volume	Peak Period: 268000 m <sup>3</sup> ; Dry period: 96000 m <sup>3</sup> ; Inlet: Small stream and Discharge Rate: ... lts/s; Inlet: -
Water quality	<u>Physicochemical parameter</u> : Temp.: 33 °C.
Soil feature	Grey and dark color, clay loam texture.
Shocks/vulnerability	-

#### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : None
Zooplankton: <u>None</u>	
	<u>Core Area</u> : None.

Major plants in basin	Ageratum conyzoides (LN: Gande Jhar; HT: herb; LU: grass); Cyndon <i>Dactylon</i> (LN: Dubo; HT: herb; LU: Ful); Iporemoea sp (LN: Besaram; HT: Hr; LU: Fd); <i>Schleichera oleosa</i> (HT: herb); Aegle Marmelos (LN: bel; HT: Tr; LU: Tm, fruit); <i>Ficus religisa</i> (Ht: Tr, LU: Tm, Fd); Mangifera Indica (LN: Mango: HT: Tr; LU: Tm, fruit) :(LN: Narkate Jhar; HT: herb)
Fish	None.
Herpetofauna	... (snake,)
Birds	NA
Mammals	Buffalo; ON:6
Invasive alien species	<u>Plants</u> : - None
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None
Abundance of plants	<u>Core Area</u> : none. <u>Basin Area</u> : Ageratum conyzoides (25%); <i>Cynodon Dactylon</i> (5%); <i>Iporemoea sp.</i> (25%); <i>Schleichera oleosa</i> (8%); <i>Aegle Marmelos</i> (1%); <i>Magnifera indica</i> (10%); <i>Narkate jhar</i> (19%).
Biomass in core area	-

### **E. Socio-Economy at Basin**

Nearby settlement	Betini Bazar; 500m from lake; Main trail: Mahendra Highway (1km).
Land use	Forest land (20%); Shrub land (20%); Grass land (2%); Agriculture (50%); Settlement (1%); Wetlands (1%); Others (6%);
Demography	Population: 812; Male: 401; Female: 411; HHs: 151; <i>Brahmin/Chettri</i> (52.9%); <i>Janajati</i> (12.3%); <i>Dalit</i> (26.7%); <i>Others</i> (8.1%); Major Religion: Hindu; Major Dialect: Nepali.
Education	Primary level (80%); School level certificate (+2) (30%); University level (5%).
Occupation	Agriculture (50%); Wage/Labour (40%); Fishing (2%); Trade/Bussiness (8%).
Jurisdiction/ownership	State.
Wetlands dependant community	None
Livestock at basin	320 nos.
Traditional production system	None
Traditional water use practices	None.
Cultural record	None
Genesis/origin of lake	NA

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock; irrigation; timber; fuelwood; fodder/forage.
Cultural services	excursion site for students;

### **G. Restoration/Management**

Structural management

None.

Non-structural management

Informal restriction.

Conservation plan

None.

Monitoring plan

None.

**H. Tourism information**

>50 annual visitors; Needs improvement in infrastructure and human resource.

**I. Lake condition**

Degraded.

## 2. Chandragunj Pokhari

Code: P2-D7-002

Toposheet no: 2685-03B...

Date of inventory: 07/02/070

Compiler's name: Saroj Pokhrel



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°55'54"N; <u>Lon.</u> : 85°37'23.5" E; <u>Alt.</u> : 88 amsl.
Geographical position	Terai
Administrative feature	CDR; Sarlahi district; Chandranagar VDC; 09 ward; Chandragunj chowk. (Currently: Malangawa Municipality; Ward no. 3)
Boundary	<u>Core Area</u> : Chandragunj bazaar in west and south; road in north; agricultural land in east. <u>Basin Area</u> : Rice fields in east; Settelement area in west; settlement area in south; chandanpur forest in north.
Management Responsibility	State.
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 42°C. <u>Avg. Min.</u> : 20°C.
Physical feature	
Area	<u>Core Area</u> : 0.95 hec; Avg. Length: 220 m; Avg. Width: 85m; Avg. Depth: 2.4 m; Max-Min Surface Water Level: 1.5 – 3.75 m.

### C. Hydrological feature

Water Volume	Peak Period: 35625 m <sup>3</sup> ; Dry period: 14250 m <sup>3</sup> ; Inlet: Small stream and Discharge Rate: ... lts/s; Inlet:
Water quality	<u>Physicochemical parameter</u> : Temp.: 28 °C.
Soil feature	Grey and dark color, sandy clay loam texture.
Shocks/vulnerability	-

### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : None
<u>Zooplankton</u> : None	
	<u>Core Area</u> : Water hyacinth (2%)

Major plants in basin	Musa sp. (LN: Banana; HT: Tr; LU: fruit); Bambusa vulgains (LN: Bamboo; HT: Tr; LU: Tm, Ful); <i>Dalbergia sisoo</i> (LN: Sisau; HT: Tr; LU: Tm, Fd); Kande jhar (HT: herb); Ficus bengelensis (LN: Bar; HT: Tr; LU: Tm, resin); Ficisa Religisa (LN: Pipal Ht: Tr, LU: Tm, Fd);
Fish	... (LN: Gahari; N/C: 2; LU: Meat); ... (LN: commoncarp; N/C: 3; LU: Meat); Hypothalamic molitrix (LN: Silvercarp; N/C: 3; LU: Meat); ... (LN: Isareli; N/C: 2; LU: Meat). All species introduce.
Herpetofauna	Bufo Himalayanus; ... (dhodiya snake, ON:-)
Birds	Anas Platyhynchos (LN: Duck; ON: 4; resident); Grus grus (LN: Crane, ON: -);
Mammals	-
Invasive alien species	Plants: - Water Hycinth (2%)
Endemic plant/animal	Plant: None. Animal: None
Abundance of plants	Core Area: Water Hycinth (2%). Basin Area: <i>Dalbergia sisoo</i> (30%); Ficus religisa (10%); Musa sp. (10%); Ficus bengelensis (10%); Bambusa vulgains (5%);

### E. Socio-Economy at Basin

Nearby settlement	Chandragunj tole; 150 m from lake; Main trail: Bharmapuri-Chandragunj road.
Land use	Forest land (23.31%); Shrub land (0.30%); Grass land (1.04%); Agriculture (66.57%); Settlement (0.91%); Wetlands (0.34%); Others (7.53%); (Source: District profile 067).
Demography	Population: 803; Male: 411; Female: 392; HHs: 137; Brahmin/Chettri (61.9%); Janajati (33.1%); Dalit (26.1%); Others (8.1%); Major Religion: Hindu; Major Dialect: Maitili. (Source: District profile 067)
Education	Primary level (10%); School level certificate (+2) (0%); University level (0%).
Occupation	Agriculture (38%); Wage/Labour (60%); Fishing (1%); Trade/Bussiness (1%).
Jurisdiction/ownership	State.
Wetlands dependent community	None
Livestock at basin	310 nos. (buffalo, ox, Goat, Pig etc)
Traditional production system	None
Traditional water use practices	-
Cultural record	None
Genesis/origin of lake	NA

### F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery; timber; fuelwood; fodder/forage; wild fruit; bamboo for handicraft.
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Cultural services

excursion site for students; Religious mela every year during chhat; Religious mela on Hanuman temple.

### **G. Restoration/Management**

Structural management

None.

Non-structural management

Informal restriction.

Conservation plan

None.

Monitoring plan

None.

### **H. Tourism information**

>70 annual visitors; Needs improvement in infrastructure and human resource.

### **I. Lake condition**

Degrading.



### 3. Hatmare Pokhari

Code: P2-D7-003

Topo sheet no: 2685-03A

Date of inventory: May 20, 2013

Compiler's name: Pabitra Basnet,  
Saroj Pokhrel, Anju Rana, Jeevan  
Chhetri,



#### A. General Feature

Conservation status

none.

Geographical coordination

Lat.: 26°55'18.98"N; Lon.: 85°31'08.95" E; Alt.: 95 m asl.

Geographical position

Terai

Administrative feature

CDR; Sarlahi district; Jamuniya VDC; ward no:5; Hatmaritole-Madanpur.

(Currently: Malangawa Municipality; Ward no. 2)

Boundary

Core Area: Mango garden and agricultural lands in east; Agricultural land and Road/Trail in west; Agricultural lands in south; Ashram in north. There is a temple of Radha Krishna in the middle of the pond resembling the pond feature similar to Rani pokhari of Kathmandu.

Basin Area: Agricultural lands in east; Madanpur secondary School in west; Madanpur road in North; Agriculture land in south.

Management Responsibility

Government and Community

Wetlands type

Manmade; Aquaculture.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 42Co. Avg. Min.: 20oC

Physical feature

Avg Rainfall 1699.6 mm/year

Area

Core Area: 5 Hectre; Avg. Length: 350m; Avg. Width: 300m; Avg. Depth: 6.1m; Max-Min Surface Water Level: 8–6.1m;

#### C. Hydrological feature

Water Volume

Peak Period: 4,00,000 m<sup>3</sup>; Dry period: 305,000m<sup>3</sup>; Inlet: 1 kulo

Water quality

Physicochemical parameter: Temp.: 35 0C; pH: No change

Soil feature

Grey color, Sandy loam texture.

Shocks/vulnerability

No

#### D. Biological feature

Major aquatic plants

Phytoplankton: Spirogyra, Nostoc Zooplankton: None

	Core Area: Eichhornia spp (LN: Jalkumbhi; HT: Em; LU Non) Rumex nepalensis (, LN: Banpalungo; HT: Em; LU: Non)
Major plants in basin	Ficus religiosa (LN: Peepal; HT: Tr; Lu: Rel); Ficus bengalensis (LN: Bar: HT; Tree: LU; Rel) Dalbergia sissau (LN: Sissau; HT: Tr; LU: Tim) Mangifera indica (LN: Mango; HT: Tr; Lu: Food); Eucalyptus sp. (HT: Tr; LU: Tim) Musa Sp (LN: Kera, HT; Grass: LU; Fd)
Fish	(Introduced) Labio rohita (LN: Rohu; LU: meat); Hypophthalmic molitrix (LN: Silver; LU: meat); ... (LN: Israil; LU: meat); ... (LN: Bigred; LU: Meat); Ctenoharyngodon idella (LN: Grass carp; LU: meat); ..... (LN: Chhadi; LU: meat); (LN: Naini; LU: Meat
Herpetofauna	Zenochrophis sp. (LN: Dhodia saap:LU: None); (LN: Masar gidhi saap; LU: none); (LN: Gohu; LU: none
Birds	<i>Casmerodius albus</i> (LN: Bakulla; ON:2; LU: None); Grus grus (LN: Crane; LU: None) ;(LN: Garud; LU: None); ... (LN: waterfowl; LU: None) ;(LN: Gairi; LU: None); (LN: Pandubi; LU: None)
Endemic plant/animal	Plant: None. Animal: None.
Core Area:	Mangifera indica (20%); Ficus religiopsa (10%)Eucalyptus sp. (10%)Musa Sp (20%)

## E. Socio-Economy at Basin

Nearby settlement	Madanpur village; 100m from lake; Main trail: Madanpur road
Land use	Forest land-20%; Shrub land-5%; Grass land-5%; Agriculture -30%; Lake-30%
Demography	Population: 754; Male:393; Female: 361; HHs: 120; (NPHC 2011) Brahmin/Chettri/others (77.5%); Janajati (0.4%%); Dalit (22.1%); Major Religion: Hindu, Muslim; Major Dialect: Hindi, Maithili, Abadhi, theti) (DDC profile, 2067)
Education	Primary level (90%); School level certificate (+2) (15%); University level (5%).
Occupation	Agriculture (80%); Employment (10%); Fishing (5%); Trade and business (5%)
Jurisdiction/ownership	State.
Wetlands dependent community	None
Livestock at basin	Ox (50-60), Cow (30-40)
Traditional production system	None
Traditional water use practices	None
Cultural record	There is a Radha Krishna temple in the middle of the lake and an Ashram nearby the lake.
Genesis/origin of lake	The pond was dug by the spirit according to locals.

## F. Ecosystem Goods/Services

Provisional services	Religious value.
Cultural services	Festival/Mela: In Krishna Janmastami and Chhat.

## **G. Restoration/Management**

Structural management	The pond is managed by the locals and they are planning to develop into a tourist site. They are trying to promote it as a religious site so planning to build outer boundary wall.
Non-structural management	informal rules: Not allow to throw any wastes, fishing, swimming; formal rules:NA
Conservation plan	Develop the area as Tourism sector;
Monitoring plan	None
<b>H. Tourism information</b>	None
<b>I. Lake condition</b>	Degrading.

#### 4. Kerwa Pokhari

Code: P2-D7-004

Topo sheet no: 2685-03A

Date of inventory: May 20, 2013

Compiler's name: Pabitra Basnet,  
Anju Rana, Jeevan Chhetri, Saroj  
Pokhrel



##### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26°55'37.91"N; <u>Lon.</u> : 85°30'49.24" E; <u>Alt.</u> : 93 m asl.
Geographical position	Terai
Administrative feature	CDR; Sarlahi district; Jamuniya VDC; ward no:5; Madanpur. (Currently: Kabilasi Municipality; Ward no. 3)
Boundary	<u>Core Area</u> : agricultural lands in North; Madanpur Secondary School and Road Trail in East; Agricultural land in north. Agricultural land is South. <u>Basin Area</u> : Birnagara Road in east; Agricultural land in west; Agricultural land in North; Agriculture land in south.
Management Responsibility	Community and School.
Wetlands type	Manmade; Aquaculture

##### B. Ecological Feature

Climatic feature	Avg. Max: Temp.: 42Co. Avg. Min.: 20oC
Physical feature	Avg Rainfall 1699.6 mm/year
Area	Core Area: 4 Hectre; Avg. Length: 300m; Avg. Width: 250m; Avg. Depth: 5.2m; Max-Min Surface Water Level: 7.6-3.7m;

##### C. Hydrological feature

Water Volume	Peak Period: 3,04,000 m3; Dry period: 1,48,000m3; Inlet: No
Water quality	Physicochemical parameter: Temp.: 30 0C; pH: No change
Soil feature	Grey color, clay loam texture.
Shocks/vulnerability	No

##### D. Biological feature

Major aquatic plants	Phytoplankton: Spirogyra, Nostoc Zooplankton: None
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	Core Area: Eichhornia spp (LN: Jalkumbhi; HT: Em; LU Non) Rumex nepalensis (, LN: Banpalungo; HT: Em; LU: Non)
Major plants in basin	Ficus religiosa (LN: Peepal; HT: Tr; Lu: Rel); Ficus bengalensis (LN: Bar: HT; Tree: LU; Rel) Dalbergia sissau (LN: Sissau; HT: Tr; LU: Tim) Mangifera indica (LN: Mango; HT: Tr; Lu: Food); Eucalyptus sp. (HT: Tr; LU: Tim)
Fish	(Introduced) Labio rohita (LN: Rohu; LU: meat); Hypophthalmic molitrix (LN: Silver; LU: meat); ... (LN: Israil; LU: meat); ... (LN: Bigred; LU: Meat); Ctenoharyngodon idella (LN: Grass carp; LU: meat); ..... (LN: Chhadi; LU: meat); (LN: Naini; LU: Meat
Herpetofauna	... (LN: Dhodia saap;LU: None); (LN: Masar gidhi saap; LU: none); (LN: Gohu; LU: none
Birds	<i>Casmerodius albus</i> (LN: Bakulla; ON:2; LU: None); Grus grus (LN: Crane; LU: None) ;(LN: Garud; LU: None); ... (LN: waterfowl; LU: None) ;(LN: Gairi; LU: None); (LN: Pandubi; LU: None)
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	CoreArea: Eichhornia Sp (40%); Rumex nepalensis (10%) BasinArea: Dalbergia sissou (20%); Mangifera indica (20%); Syzigium cumini (10%)Ficus religiopsa (02%)Eucalyptus sp. (10%)Aegele marmalos (20%)

## E. Socio-Economy at Basin

Nearby settlement	Madanpur village; 100m from lake; Main trail: Madanpur road
.	.
Land use	Forest land-20%; Shrub land-5%; Grass land-5%; Agriculture -30%; Lake-30%
Demography	Population: 754; Male:393; Female: 361; HHs: 120; (NPHC 2011) Brahmin/Chettri/others (77.5%); Janajati (0.4%%); Dalit (22.1%); Major Religion: Hindu, Muslim; Major Dialect: Hindi, Maithili, Abadhi, theti) (DDC profile, 2067)
Education	Primary level (90%); School level certificate (+2) (15%); University level (5%).
Occupation	Agriculture (80%); Employment (10%); Fishing (5%); Trade and business (5%)
Jurisdiction/ownership	School.
Wetlands dependent community	Local majhis.
Livestock at basin	Ox (50-60), Cow (30-40)
Traditional production system	None
Traditional water use practices	None
Cultural record	None.
Genesis/origin of lake	The place was covered with banana plants in the past and gradually displaced thus called Keruwa pokhari.

## **F. Ecosystem Goods/Services**

Provisional services Religious value.  
Cultural services Chhat.

## **G. Restoration/Management**

Structural management The pond is managed by the locals and the local Majhi community is dependent on it.  
Non-structural management informal rules: Not allow to throw any wastes, fishing, swimming; formal rules:NA  
Conservation plan Non;  
Monitoring plan None

**H. Tourism information** None

**I. Lake condition** Degrading.

## 5. Lekhandehi Taal

Code: P2-D7-005

Toposheet no: 2685-03A....

Date of inventory: 07/02/070

Compiler's name: Saroj Pokhrel,  
Anju Rana, Jeevan Chhetri



### A. General Feature

Conservation status	None
Geographical coordination	Lat.: 26o55'47.6"N; Lon.: 85o30'01.7" E; Alt.: 77 amsl.
Geographical position	Terai
Administrative feature	CDR; Sarlahi district; Padahiya VDC; 06 ward; Shivanagar. (Currently: Chakraghatta Rural Municipality; Ward no. 1)
Boundary	Core Area: settlement in east and nortt; forest in west; grassland in south.  Basin Area: Shivanagar village in east; Forest in west; malempur village in north; grassland in south.
Management responsibility	State (Padahiya VDC).
Wetlands type	Freshwater/ natural; Lacustrine; seasonal (dry condition).

### B. Ecological Feature

Climatic feature	Avg. Max: Temp.: 420C. Avg. Min.: 200C.
Physical feature	
Area	Core Area: 2hec; Avg. Length: 250; Avg. Width: 175m; Avg. Depth: 3m; Max-Min Surface Water Level:6-2m.

### C. Hydrological feature

Water Volume	Peak Period: 120000 m3; Dry period: 40000 m3; Inlet: Small stream and Discharge Rate: ... lts/s; Inlet: -
Water quality	Physicochemical parameter: Temp.: - (dry condition)
Soil feature	Grey and dark color, sandy clay texture.

### D. Biological feature

Major aquatic plants	Phytoplankton: None
Zooplankton: <u>None</u>	
Core Area: None.	
Major plants in basin	Dalbergia sisso (LN: sisso; HT: Tr; LU: Tr); Magnifera indica (LN: mango; HT: Tr; LU: Tm, Ful); Ficus religisa (Ht: Tr, LU: Tm, Fd);
Fish	NA

Herpetofauna	NA
Birds	NA
Mammals	NA
Invasive alien species	Plants: - None
Endemic plant/animal	Plant: None. Animal: None
Abundance of plants	Core Area: none. Basin Area: <i>Magnifera indica</i> (20%); <i>Dalbergia sisoo</i> (35%); <i>ficus religisa</i> (15%).
Biomass in core area	-

### **E. Socio-Economy at Basin**

Nearby settlement	Shivanagar Tole; 200m from lake; Main trail: Shivanagar-Salempur road.
Land use	Forest land (23%); Shrub land (1%); Grass land (2%); Agriculture (66%); Settlement (1%); Wetlands (1%); Others (6%);
Demography	Population: 482; Male: 249; Female: 232; HHs: 86; Brahmin/Chettri (51.9%); Janajati (13.7%); Dalit (25.7%); Others (8.1%); Major Religion: Hindu; Major Dialect: Theti, Maitili.
Education	Primary level (98%); School level certificate (+2) (40%); University level (2%).
Occupation	Agriculture (80%); Wage/Labour (13%); Fishing (5%); Trade/Bussiness (2%).
Jurisdiction/ownership	State.
Wetlands dependent community	Bihari community;(HH:25, Annual income: 2-3 lakhs/Year)
Livestock at basin	213 nos.
Traditional production system	None
Traditional water use practices	None.
Cultural record	None
Genesis/origin of lake	NA

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock; fishery; timber; fuelwood; fodder/forage; Water for irrigation; household purpose.
Cultural services	Religious mela every year during chhat.

### **G. Restoration/Management**

Structural management	None.
Non-structural management	Informal restriction.
Conservation plan	None.
Monitoring plan	None.

### **H. Tourism information**

>200 annual visitors .one locally organized hotel; Needs improvement in infrastructure and human resource.

### **I. Lake condition**

Degrading. (dry condition).



## 6. Math Pokhari

Code: P2-D7-006

Topo sheet no: 2685-03A

Date of inventory: May 20, 2013

Compiler's name: Pabitra Basnet,

Saroj Pokhrel, Anju Rana, Jeevan

Chhetri



### A. General Feature

Conservation status	none.
Geographical coordination	Lat.: 26°55'27.15"N; Lon.: 85°30'48.48" E; Alt.: 94 m asl.
Geographical position	Terai
Administrative feature	CDR; Sarlahi district; Jamuniya VDC; ward no:7; Madanpur. (Currently: Kabilasi Municipality; Ward no. 3)
Boundary	Core Area: Basin Area: Kabilasi VDC in east; Madanpur secondary School in west; Padahariya and Aurahi VDC in south; Hempur VDC in north.
Management responsibility	Government and Community
Wetlands type	Natural; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp.: 42Co. Avg. Min.: 20oC
Physical feature	Avg Rainfall 1699.6 mm/year
Area	Core Area: 3 Hectre; Avg. Length: 300m; Avg. Width: 180m; Avg. Depth: 6.1m; Max-Min Surface Water Level: 4-3 m; Basin Area: ...m.sq.

### C. Hydrological feature

Water Volume	Peak Period: 1,20,000 m <sup>3</sup> ; Dry period: 90,000m <sup>3</sup> ; Inlet: 1 kulo
Water quality	Physicochemical parameter: Temp.: 32 0C; pH: No change
Soil feature	Grey color, Sandy loam texture.
Shocks/vulnerability	None.

### D. Biological feature

Major aquatic plants

	Phytoplankton: Spirogyra, Nostoc Zooplankton: None
	Core Area: Eichhornia spp (LN: Jalkumbhi; HT: Em; LU Non) Rumex nepalensis (, LN: Banpalungo; HT: Em; LU: Non)
Major plants in basin	Ficus religiosa (LN: Peepal; HT: Tr; Lu: Rel); Ficus bengalensis (LN: Bar: HT; Tree: LU; Rel) Dalbergia sissau (LN: Sissau; HT: Tr; LU: Tim) Mangifera indica (LN: Mango; HT: Tr; Lu: Food); Eucalyptus sp. (HT: Tr; LU: Tim) Musa Sp (LN: Kera, HT; Grass: LU; Fd)
Fish	Non
Herpetofauna	.... (LN: Dhodia saap:LU: None); (LN: Masar gidhi saap; LU: none); (LN: Gohu; LU: none)
Endemic plant/animal	Plant: None. Animal: None.
Core Area:	Mangifera indica (20%); Ficus religiopsa (10%)Eucalyptus sp. (10%)Musa Sp (20%)

### E. Socio-Economy at Basin

Nearby settlement	Madanpur village; 100m from lake; Main trail: Madanpur road
Land use	Forest land-20%; Shrub land-5%; Grass land-5%; Agriculture -30%; Lake-30%
Demography	Population: 754; Male:393; Female: 361; HHs: 120; (NPHC 2011) Brahmin/Chettri/others (77.5%); Janajati (0.4%%); Dalit (22.1%); Major Religion: Hindu, Muslim; Major Dialect: Hindi, Maithili, Abadhi, theti) (DDC profile, 2067)
Education	Primary level (90%); School level certificate (+2) (15%); University level (5%).
Occupation	Agriculture (80%); Employment (10%); Fishing (5%); Trade and business (5%)
Jurisdiction/ownership	State.
Wetlands dependent community	None
Livestock at basin	Ox (50-60), Cow (30-40)
Traditional production system	None
Traditional water use practices	None
Cultural record	There is a Radha Krishna temple in the middle of the lake and an Ashram nearby the lake.
Genesis/origin of lake	The pond was dug by the spirit according to locals.

### F. Ecosystem Goods/Services

Provisional services	Religious value.
Cultural services	Festival/Mela: In Krishna Janmastami, ram Nawami and Chhat.

### F. Restoration/Management

Structural management	The pond is managed by the locals and they are planning to develop into a tourist site. They are trying to promote it as a religious site so planning to build outer boundary wall.
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Non-structural management

informal rules: Not allow to throw any wastes, fishing, swimming; formal rules:NA

Conservation plan

There is an Ahsram nearby which looks after it;

Monitoring plan

None

**H. Tourism information**

None

**I. Lake condition**

Degrading.

## 7. Nadhi Taal

Code: P2-D7-007

Toposheet no: N/A

Date of inventory: April 27, 2012

Compiler's name: Jeevan chhetri,

Saroj Pokharel, anju Rana



### A. General Feature

Conservation status	None
Geographical coordination	Lat.: 26o55'52.7"N; Lon.: 85o37'21.5" E; Alt.: 86 amsl.
Geographical position	Terai
Administrative feature	CDR; Sarlahi district; Chandranagar VDC; 08 ward; Nadhi Tole. (Currently: Malangawa Municipality; Ward no. 2)
Boundary	Core Area: cultivated land in west and south; agricultural land in east; forest in north. Basin Area: cultivated land in east; Nadhiman village in west; chandragunj village in south; Forest and grassland in north.
Management responsibility	Chandranagar VDC
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp.: 420C. Avg. Min.: 200C (Dec).
Physical feature	
Area	Core Area: 1.54 hec; Avg. Length: 300 m; Avg. Width: 150 m; Avg. Depth: 4.5 feet; Max-Min Surface Water Level: 6– 2.5 m;

### C. Hydrological feature

Water Volume	Peak Period: 92400 m <sup>3</sup> ; Dry period: 38500m <sup>3</sup> ; Inlet: Small stream and Discharge Rate: ... Its/s; Inlet: Aadhbhar Khola.
Water quality	Physicochemical parameter: Temp.: 28 0C.
Soil feature	Grey and dark color, sandy clay loam texture.
Shocks/vulnerability	-

### D. Biological feature

Major aquatic plants	Phytoplankton:
Zooplankton:	

	Core Area:
Major plants in basin	Ficus bengelensis (LN: Bar; HT: Tr; LU: Tm, resin); ficus religisa (Ht: Tr, LU: Tm, Fd); <i>Dalbergia sisoo</i> (LN: Sisau; HT: Tr; LU: Tm); Bambusa Vulgains (LN: Bamboo; HT: Tr; LU: food); Musa sps. (LN: Banana; HT: Sh; LU: food)
Fish	... (LN: Gahari; N/C: 2; LU: Meat); Labio rohita (LN: Rahu; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 3; LU: Meat); ... (LN: Commoncarp; N/C: 2; LU: Meat) ... (LN: Isareli; N/C: 2; LU: Meat). All species introduce.
Herpetofauna	... (Snake; ON: 1); Bufo himalayanus. (Frog ON: 1);
Birds	Easmero diusalsus (LN: Crane; ON: 2; Migratory); Anas platyhynchos (Duck, ON: 8); ...
Mammals	... -
Invasive alien species	Plants: Water Hycinth (LN: Banmara, CO: 5%); Animals: Limas sp (LN: Chiple Kira, ON: 5).
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: Water Hycinth sp (5%), Basin Area: Ficus religisa (10%); <i>Dalbergia sisoo</i> (10%); Musa sp. (5%); Bambusa vulgains (15%); Ficus bengelensis (10%).

### E. Socio-Economy at Basin

Nearby settlement	Nadhiman Toler; 100 m from lake; Main trail: Bharmapuri-Nadhiman road.
Land use	Forest land (22%); Shrub land (3%); Grass land (4%); Agriculture (44%); Settlement (15%); Wetlands (5%); Others (8%);
Demography	Population:736; Male: 420; Female: 316; HHs: 102; Brahmin/Chettri (35%); Janajati (33.2%); Dalit (26.1%); Others (5.8%); Major Religion: Hindu; Major Dialect: Maithaili
Education	Primary level (10%); School level certificate (+2) (None); University level (None).
Occupation	Agriculture (39%); Trade/Business (1%); Wages/Labour (60%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	320 no.(approx.)
Traditional production system	None.
Traditional water use practices	Community pond (1).
Cultural record	None
Genesis/origin of lake	NA

### F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery; Irrigation; timber supply
Cultural services	Historic site for Tharu community; excursion site for students; Religious mela on chhat.

## **G. Restoration/Management**

Structural management                      Afforestation.

Non-structural management                Informal restriction.

Conservation plan                            Available.

Monitoring plan                              None.

## **H. Tourism information**

>350 annual visitors; locally operated hotel-5; Needs improvement in infrastructure and human resource.

## **I. Lake condition**

Degrading.

## 8. Nagarpalika Pokhari

Code: P2-D7-008

Topo sheet no: N/A

Date of inventory: May 21, 2013

Compiler's name: Pabitra Basnet,

Saroj Pokhrel Anju Rana,

Jeevan Chhetri



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°51'12.34"N; <u>Lon.</u> : 85°33'31.97" E; <u>Alt.</u> : 86 m asl.
Geographical position	Terai
Administrative feature	CDR; Sarlahi district; Malangwa Municipality; ward no:6; (Currently: Malangawa Municipality; Ward no. 3)
Boundary	<u>Core Area</u> : Settlement of Malangwa Municipality in North: main road in South: Settlement area in East: Municipality office in West  <u>Basin Area</u> : Malangwa settlement and Malangwa Bus stop in North; Malangwa Road north and west; Settlement in south; Malangwa Municipality settlement in West.
Management responsibility	Government(Municipality)
Wetlands type	Manmade; Aquaculture.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp.: 42Co. Avg. Min.: 20oC
Physical feature	Avg Rainfall 1699.6 mm/year
Area	Core Area: 2 Hectre; Avg. Length: 200m; Avg. Width: 150m; Avg. Depth: 6ft; Max-Min Surface Water Level: 3-4 m; Basin Area: ...m.sq.

### C. Hydrological feature

Water Volume	Peak Period: 80000 m3; Dry period: 60000m3;
Inlet: No	
Water quality	Physicochemical parameter: Temp.: 30 0C; pH: Pink changed Blue
Soil feature:	Grey color; Silty Clay texture
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	Phytoplankton: None Zooplankton: None
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	Core Area: Cynodondactylon (LN: Dubo; HT: Em; LU: None); Polygonum barbatum (LN: Mirchaiya; HT: Em; LU: None) Rumex nepalensis. (LN: Banpalungo; HT: He: LU: None) Basin area: Eichhornia sp (LN: Jalkumbhi; HT: Gr; LU: None)
Fish	(Introduced) Labio rohita (LN: Rohu; LU: meat); Hypophthalmic molitrix (LN: Silver; LU: meat); Ctenoharyngodon idella (LN: Grass carp; LU: meat) ;(LN: Asala; LU: meat)
Herpetofauna	.... (LN: Dhodia saap:LU: None), frog
Birds	None
Mammals	None
Invertebrates	Leech, Snails
Invasive alien species	Eichhornia Sp
Endemic plant/animal	Plant: None. Animal: None
Abundance of plants	Core Area: Cynodon dactylon (30%); Rumex sp (5%); Paspalum (5%); Polygonum sp (5%) Basin Area: Eichhornia sp (10%)
Biomass in core area	None

### **E. Socio-Economy at Basin**

Nearby settlement	20m, Ringroad (Malangwa Road)
Land use	Grass land-5%; Settlement 50%; Agriculture 5%; Lake 10%
Demography	Population: 2053; Male:1070; Female: 983; HHs: 180; (NPHC 2011; Janajati (8.4%%); Dalit (15%); Others (76.5%); Major Religion: Hindu: Muslim; Major Dialect: Maithili, Abadhi, Theti (Asked to local people and DDC Profile 2067)
Education	Primary level (80%); School level certificate (+2) (40%); University level (30%).
Occupation	Agriculture (50%); Fishing (10%); Employment (5%); Trade and Business (5%); Wages/labor (5%); Tourism (5%)
Jurisdiction/ownership	State
Wetlands dependent community	None
Livestock at basin	None
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	The lake is called nagarpalika pokhari as it is in front of the municipality and also the responsibility and ownership is under the municipality but there is no specific story or date behind the origin of the lake.

### **F. Ecosystem Goods/Services**

Provisional services	Fish supply
Cultural services	None



**G. Restoration/Management**

Structural management	None
Non-structural management	None
Conservation plan	None
Monitoring plan	None.

**H. Tourism information**                      None

**I. Lake condition**                              Degraded.

## 9. Nassi Pokhari

Code: P2-D7-009

Topo sheet no: N/A

Date of inventory: May 21, 2013

Compiler's name: Pabitra Basnet,

Anju Rana, Jeevan Chhetri, Saroj

Pokhrel



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26°51'16.28"N; <u>Lon.</u> : 85°33'12.21" E; <u>Alt.</u> : 85 m asl.
Geographical position	Terai
Administrative feature	CDR; Sarlahi district; Musaili VDC; ward no:2; (Currently: Malangawa Municipality; Ward no. 2)
Boundary	Core Area: Forest and agriculture land in West: Settlement of Malangwa Municipality in East: Settlement of Musaili VDC in South: Agriculture land and main road in North. Basin Area: Malamgwa Municipality east; Musaili VDCSouth; Musaili road in north; Agricultural lands and road in South.
Management responsibility	Government (Panchyat)
Wetlands type	Manmade; Aquaculture.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp.: 42Co. Avg. Min.: 20oC
Physical feature	Avg Rainfall 1699.6 mm/year
Area	Core Area: 0.6 Hectre; Avg. Length: 200m; Avg. Width: 150m; Avg. Depth: 10ft; Max-Min Surface Water Level: 3-2 m; Basin Area: ...m.sq.

### C. Hydrological feature

Water Volume	Peak Period: 18300 m3; Dry period: 12200m3; Inlet: No
Water quality	Physicochemical parameter: Temp.: 300C; pH: Pink into blue
Soil feature	Grey color, clay loam texture.
Shocks/vulnerability	No

### D. Biological feature

Major aquatic plants	Phytoplankton: Spirogyra, Nostoc Zooplankton: None
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	Core Area: Eichhornia spp (LN: Jalkumbhi; HT: Em; LU Non) Rumex nepalensis (, LN: Banpalungo; HT: Em; LU: Non)
Major plants in basin	Ficus religiosa (LN: Peepal; HT: Tr; Lu: Rel); Dalbergia sissau (LN: Sissau; HT: Tr; LU: Tim) Mangifera indica (LN: Mango; HT: Tr; Lu: Food); Eucalyptus sp. (HT: Tr; LU: Tim) Musa Sp (LN; Kera: HT: Grass; LU Fd)
Fish	(Introduced) Labio rohita (LN: Rohu; LU: meat); Hypophthalmic molitrix (LN: Silver; LU: meat); ... (LN: Israil; LU: meat)
Herpetofauna	(LN: water snake)
Birds	None
Mammals	None
Invasive alien species	Plants: Eichhornia sp (LN: Jalkumbhi; HT: Em; LU Non): Rumex nepalensis (, LN: Banpalungo; HT: Em; LU: Non)
Animals: None.	
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	CoreArea: Eichhornia Sp (30%); Rumex nepalensis (10%)
Basin Area:	Ficus religiosa (LN: Peepal; HT: Tr; Lu: Rel); Ficus bengalensis (LN: Bar: HT; Tree: LU; Rel) Dalbergia sissau (LN: Sissau; HT: Tr; LU: Tim) Mangifera indica (LN: Mango; HT: Tr; Lu: Food)

### **E. Socio-Economy at Basin**

Nearby settlement	Malangwa Municipality; 200m far from the wetland; Main trail: Hulaki road; 5 m far from the wetland.
Land use	Forest land (1%); Grass land (9%); Agriculture (20%); Settlement (30%); Wetland (40%).
Demography	Population: 465; Male: 240; Female: 225; HHs: 73;
Caste/ethnic group:	Others/Brahmin/Chhetri (93.8%); Janajati (0.2%); Dalit (5.9%)
Major Religion:	Hinduism and muslim; Major Dialect: Maithili. Average landhold/HH 1-2 Bigha
Education	Primary level (90%); School level certificate (+2) (10%); University level (20-25%).
Occupation	Agriculture (90%); Fishing (1%)
Jurisdiction/ownership	Private
Wetlands dependent community	Majhis House hold no. 6 (1 Km from the site) Literacy rate 30%: Occupation both; earning Rs 4000/ Month.
Livestock at basin	Buffalo Sheep, Goat
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	The lake was believed to be dug by the spirit in the past.

### **F. Ecosystem Goods/Services**

Provisional services	Fish supply.
Cultural services	

## **G. Restoration/Management**

Structural management	Sewage system
Non-structural management	informal rules: Non; formal rules: Non
Conservation plan	Non
Monitoring plan	Non

**H. Tourism information** Non

**I. Lake condition** Degraded

## 10. Panpiya Taal

Code: P2-D7-010

Toposheet no: 2685-03A...

Date of inventory: 07/02/070

Compiler's name: Saroj Pokhrel,

Jeevan Chhetri, Anju Rana



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 26°53'24.3"N; <u>Lon.</u> : 85°35'28.9" E; <u>Alt.</u> : 85 amsl.
Geographical position	Terai
Administrative feature	CDR; Sarlahi district; Bharmapuri VDC; 05 ward; Bharmapuri Tole. (Currently: Bramhapuri Rural Municipality; Ward no. 1)
Boundary	<u>Core Area</u> : water hyacinth in east and south; cultivated land in west; grassland in north. <u>Basin Area</u> : Guihmhi village in west; Bharmapuri village in east; Nadhiman village in south; grassland in north.
Management Responsibility	Bharmapuri community.
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp.: 420C. Avg. Min.: 200C.
Physical feature	
Area	Core Area: 0.53 hec; Avg. Length: 400 m; Avg. Width: 250m; Avg. Depth: 2.4 m; Max-Min Surface Water Level: 3.6 – 1.35 m.

### C. Hydrological feature

Water Volume	Peak Period: 19080 m3; Dry period: 7155 m3; Inlet: Small stream and Discharge Rate: ... lts/s; Inlet: -
Water quality	Physicochemical parameter: Temp.: 28 0C.
Soil feature	Grey and dark color, clay loam texture.
Shocks/vulnerability	-

### D. Biological feature

Major aquatic plants	Phytoplankton: None
Zooplankton: None	

	Core Area: Water Hycinth(Ff).
Major plants in basin	Bambusa vulgains (LN: Bamboo; HT: Tr; LU: Fd, Food); Musa sp. (LN: Banana; HT: Tr; LU: Fruit); <i>Dalbergia sisoo</i> (LN: sisau; HT: Tr; LU: Tm, Fd); Mangifera indica (HT: Tr); Ficus Religisa (Ht: Tr, LU: Tm, Fd);
Fish	Hypothithalmic molitrix (LN: Silver carp; N/C: 3; LU: Meat); ... (LN: Roha; N/C: 3; LU: Meat); ... (LN: Naini; N/C: 3; LU: Meat); ... (LN: Gaberni; N/C: 2; LU: Meat) ;(LN: Isareli; LU: Meat). All species introduce.
Herpetofauna	Rana trigrina (frog, ON: 1).
Birds	Anas Platyhynchos (LN: Duck; ON: 2; resident).
Invasive alien species	Plants: - Water hyacinth (2%)
Endemic plant/animal	Plant: None. Animal: None
Abundance of plants	Core Area: Water Hycinth (2%). Basin Area: Ficus religisa (20%); Musa sps. (20%); <i>Dalbergia sisoo</i> (10%); Bambusa vuglains (15%); Magnifera indica (5%);
Biomass in core area	-

### E. Socio-Economy at Basin

Nearby settlement	Bharmapuri Tole; 50m from lake; Main trail: Bharmapuri-Malangwaha road.
Land use	Forest land (5%); Shrub land (1%); Grass land (2%); Agriculture (42%); Settlement (30%); Wetlands (15%); Others (5%);
Demography	Population: 500; Male: 270; Female: 230; HHs: 65; Brahmin/Chettri (50%); Janajati (9.6%); Dalit (18.4%); Others (22.1%); Major Religion: Hindu; Major Dialect: Theti, Maitili.
Education	Primary level (90%); School level certificate (+2) (70%); University level (5%).
Occupation	Agriculture (80%); Wage/Labour (10%); Fishing (1%); Trade/Bussiness (8%).
Jurisdiction/ownership	Private
Wetlands dependant community	None.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None
Genesis/origin of lake	NA

### F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery; timber; fuelwood; fodder/forage; wild fruit; bamboo for handicraft.
Cultural services	Religious Ashare mela every year during Ashar month; Bharmamaharaj ko puja on Bharmamaharaj temple.

### G. Restoration/Management

Structural management	None.
Non-structural management	Informal restriction.
Conservation plan	None.
Monitoring plan	None.
<b>H. Tourism information</b>	Needs improvement in infrastructure and human resource.
<b>I. Lake condition</b>	Degrading.

## 11. Purano Pokhari (Musailiko Pokhari)

Code: P2-D7-007

Topo sheet no: N/A

Date of inventory: May 21, 2013

Compiler's name: Pabitra Basnet,  
Anju Rana, Jeevan Chhetri, Saroj  
Pokhrel



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26°51'19.34"N; <u>Lon.</u> : 85°32'02.45" E; <u>Alt.</u> : 81 m asl.
Geographical position	Terai
Administrative feature	CDR; Sarlahi district; JMusaili VDC; ward no:3; (Currently: Malangawa Municipality; Ward no. 7)
Boundary	<u>Core Area</u> : Forest and Agriculture land in West: Settlement in East: Settlement in South: Agriculture in North. <u>Basin Area</u> : Settlement of Musaili VDC in NorthEast; Main Road in North: Agricultural Land in South: Agricultural land in West.
Management Responsibility	Government and School (Shree Bagidevi H.S school)
Wetlands type	Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp.: 42Co. Avg. Min.: 20oC
Physical feature	Avg Rainfall 1699.6 mm/year
Area	Core Area: 3 Hectre; Avg. Length: 350m; Avg. Width: 300m; Avg. Depth: 12-14 ft; Max-Min Surface Water Level: 10-5 m;

### C. Hydrological feature

Water Volume	Peak Period: 3000000 m <sup>3</sup> ; Dry period: 150000m <sup>3</sup> ; Inlet: No
Water quality	Physicochemical parameter: Temp.: 37 0C; pH: Pink into blue
Soil feature	Grey color, clay loam texture.
Shocks/vulnerability	No

### D. Biological feature

Major aquatic plants	Phytoplankton: Spirogyra, Nostoc Zooplankton: None Core Area: Eichhornia spp (LN: Jalkumbhi; HT: Em; LU Non) Rumex nepalensis (, LN: Banpalungo; HT: Em; LU: Non) Paspalum sp (LN: Mothe: HT; Em: LU; No)
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Major plants in basin	Ficus religiosa (LN: Peepal; HT: Tr; Lu: Rel) ;(LN: kadam: HT; Tr: LU; Fd) Mangifera indica (LN: Mango; HT: Tr; Lu: Food); Eucalyptus sp. (HT: Tr; LU: Tim)
Fish	(Introduced) Labio rohita (LN: Rohu; LU: meat); Hypophthalmic molitrix (LN: Silver; LU: meat); ... (LN: Goldenl; LU: meat); ... (LN: Bigred; LU: Meat); .... (LN: Naini; LU: Meat)
Herpetofauna	.... (LN: Dhodia saap:LU: None); (LN: Masar gidhi saap; LU: none); (LN: Frog: LU: None)
Birds	<i>Casmerodius albus</i> (LN: Bakulla; ON:2; LU: None); Grus grus (LN: Crane; LU: None) ;(LN: Gaidi; LU: None); ... (LN: waterfowl; LU: None)
Invertebrates	Snail, Crab, Situwa, Ghongi
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	CoreArea: Eichhornia Sp (30%); Rumex nepalensis (10%) Paspalum Sp (3%) Lemna Sp (3%)
BasinArea:	Kadam (2%); Eucalayptus sp (5%)Ficus religiosa (1%)Mirchaiya (15%), Cynodon dactylon (50%)

### E. Socio-Economy at Basin

Nearby settlement	Musaili village; 100m from lake; Main trail: Musaili (Hulake) road
.	.
Land use	Shrub land-2%; Grass land-3%; Agriculture -80%; Settlement-10%
Demography	Population: 465; Male: 240; Female: 225; HHs: 73;
Caste/ethnic group:	Others/Brahmin/Chhetri (93.8%); Janajati (0.2%); Dalit (5.9%)
Major Religion:	Hinduism and muslim; Major Dialect: Maithili. Average landhold/HH 1-2 Bigha
Education	Primary level (25%); School level certificate (+2) (35%); University level (35%).
Occupation	Agriculture (99%); Fishing (1%)
Jurisdiction/ownership	state
Wetlands dependent community	Majhis House hold no. 25 (2-3Km from the site): Occupation both; earning Rs 8000/ Month.
Livestock at basin	Buffalo, Sheep, Goat
Traditional production system	None
Traditional water use practices	2 community ponds
Cultural record	None
Genesis/origin of lake	The lake was believed to be dug by the spirit in the past.

### F. Ecosystem Goods/Services

Provisional services	Fish supply and domestic use.
Cultural services	Chhat and all rituals.

### **G. Restoration/Management**

Structural management	None
Non-structural management	informal rules: Non; formal rules: Non
Conservation plan	None
Monitoring plan	None

**H. Tourism information** Occasional, 1-2 individuals per year

**I. Lake condition** Degrading

## Annex-24: Inventory of lakes in Siraha district

### 1. Adda Pokhari

Code: P2-D8-001

Toposheet no: 2686 05D

Date of inventory: May 25, 2013

Compiler's name: Sushil Khadka,  
Santosh Khadka, Prakash Sigdel,  
Suman Kafle.



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26.61891 N; <u>Lon.</u> : 86.18773 E; <u>Alt.</u> : 57.08 amsl.
Geographical position	Tarai.
Administrative feature	EDR; Siraha district; Madar VDC; 6 wards; Madar chandraganj Bazaar.
Boundary	<u>Core Area</u> : Settlement in east; Agriculture land and settlement in west; Agriculture land in south; Settlement in north. <u>Basin Area</u> : Settlement in east; Settlement in west; Agriculture land in south; Settlement in north.
Management Responsibility	Madar VDC.
Wetlands type	Freshwater/ natural; Lacustrine; Seasonal.

#### B. Ecological Feature

Climatic feature	Avg. Max: Temp.: 420C (Jun/Jul). Avg. Min.: -
Physical feature	
Area	<u>Core Area</u> : 1.35 ha; Avg. Length: 120 m; Avg. Width: 110 m; Avg. Depth: 1.2 m; Max-Min Surface Water Level: 1.5 – 2.5 m; <u>Basin Area</u> : 2ha.

#### C. Hydrological feature

Water Volume	NA
Water quality	Physicochemical parameter: Temp.: 270C; Transparency: 0.15 m.
Soil feature	Grey color, Rocky loam texture.
Shocks/vulnerability	None.

#### D. Biological feature

Major aquatic plants	Phytoplankton: NA Zooplankton: NA Core Area: Colocasia esculenta (LN: karkalo HT: Sm, LU:), ... (LN: andi HT: Sm) ... (LN: Sahanchi; HT: Sm).
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Major plants in basin	... (LN: Kapas; HT: Tr; LU: Puja, making cloth); <i>Mangifera indica</i> (Mango; HT: Tr; LU: Fruit, Fd); <i>Dalbergia sisso</i> (Sisso; HT: Tr; LU: Tm).
Fish	<i>Heteropneustes</i> (LN: Singi; N/C: 3; LU: Meat); <i>Labeo sp</i> (LN: Rahu; N/C: 2; LU: Meat); <i>Cirrhinus mirgala</i> (LN: Naini; N/C: 3; LU: Meat); ... (LN: Bhyakur; N/C: 1; LU: Meat). All species introduce.
Herpetofauna	... (LN: cheparo, ON: 2); <i>Narrix piscator</i> (LN: dhodiya, ON: 1); <i>Naja naja</i> (ON: 1); <i>Varanus sp.</i> (LN: gohoro; ON: 1).
Birds	<i>Pichnonothus sp.</i> (LN: Jureli; ON: 2; Migratory); <i>Corvus sp.</i> (LN: kaag, ON:3); <i>Arde cinera</i> (LN: Bakulla; ON: 1); ... (LN: Koili; ON: 2); ... (LN: Maina, ON: 1)
Mammals	... (Jackal; ON;2); <i>Canis sp</i> (Fox: ON;1); <i>Felis sp</i> (Jungle cat; ON: 1); (Monkey).
Invasive alien species	Plants: None      Animals: None
Endemic plant/animal	Plant: None      Animal: None
Abundance of plants	<u>Core Area</u> : Sahanchi (30%), Karkalo (10%). <u>Basin Area</u> : <i>Dalbergia sisso</i> (10%); <i>Mangifera indica</i> (50%); <i>Bambusa sp</i> (20%).
Biomass in core area	None

### E. Socio-Economy at Basin

Nearby settlement	Siraha Bazaar; 4 km north from lake; Main trail: Siraha- Madar road.
Land use	Forest land (0.5%); Shrub land (5%); Grass land (2%); Agriculture (20); Settlement (45%); Wetlands (3%); Others (24.5%).
Demography	Population: 350; Male: 160; Female: 190; HHs:35; Brahmin/Chettri (25%); Janajati (15%); Dalit (30%); Others (30%); Major Religion: Hinduism; Major Dialect: Maithali.
Education	Primary level (90%); School level certificate (+2) (25%); University level (3%).
Occupation	Agriculture (10%); Employment (6%); Trade/Business (5%); Remittance (5%) Wages/labor (89%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	150 no.
Traditional production system	None.      NTFPs: None
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None

### F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery production.
Cultural services	None

### G. Restoration/Management

Structural management	None
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Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>H. Tourism information</b>	None.
<b>I. Lake condition</b>	Degrading.

## 2. Baban Tol Pokhari

Code: P2-D8-002

Toposheet no:2686 06A

Date of inventory: April 25, 2013

Compiler's name: Santosh Khadka,

Sushil Khadka, Suman Kafle and

Prakash Sigdel



### A. General Feature

Conservation status

None.

Geographical coordination

Lat: 26.63462 E; Lon: 86.30055 N; Alt: 79.19m amsl

Geographical position

Tarai.

Administrative feature

EDR; Siraha district; Aurahi VDC; 7 wards; Baban tol

Boundary

Core Area: Settlement in east; Road in west; Settlement in south; Road in north.

Basin Area: Agriculture land in east; Path in west; Agriculture land in south; Agriculture land in north.

Management Responsibility

Local community

Wetlands type

Freshwater/natural; Riverine; Temporary.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 390C (Jun/Jul). Avg. Min.:

Physical feature

Area

Core Area: 1.5 ha; Avg. Length: 170 m; Avg. Width: 140 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 0.5 - 2m; Basin Area: 2 ha.

### C. Hydrological feature

Water Volume

NA

Water quality

Physicochemical parameter: Temp.: 280C; Transparency: 0.45m.

Soil feature

Grey and dark color, sandy loam texture.

Shocks/vulnerability

None

### D. Biological feature

Major aquatic plants

Phytoplankton: NA. Zooplankton: NA

Core Area: None

Major plants in basin

Mangifera indica (Mango tree; HT: Tr; LU: Fruit); Ficus bengalensis (LN: Bar; HT: Tr; LU: Tm, Ful, religious tree) Ficus religiosa (LN: Pipal Ht: Tr, LU: Tm, Fd, religious tree); Eucalyptus sp (LN: Masala; HT: Tr; LU: Fd); Colocasia

	esculenta (LN: Karkalo; HT: Hr; LU: Fd) ..... (LN: Sinwayer; HT: Hr; LU: None).
Fish	Heteropneustes (LN: Singi; N/C: 1; LU: Meat) Labeo sp (LN: Rahu; N/C: 2; LU: Meat); cirrhinus mirgala (LN: Naini; N/C: 2; LU: Meat); Catla catla (LN: Bhyakur; N/C: 2; LU: Meat) .... (LN: kotri; N/C:3; LU: Meat) Puntis sp (LN: pothi; N/C:3 LU: Meat). All species introduce.
Herpetofauna	Naja naja(Goman); Varanus sp (Sun Gohoro, ON: 2); Hyplobratacus rigrinus (FrogON: 4); Testudosp (LN: Kachuwa ON: 1); Nareix piscator (Dhodiya ON: 2).
Birds	Ardea cinera (LN: Bakulla; ON:3; Resident); ... (LN: Garud, ON: 1); ... (LN: Koeli; ON: 2); ... (Hans, ON: 2); Acrifotheres foseus (LN: Maina; ON: 2);
Mammals	Canis sp (Jackle, ON: 2).
Invasive alien species	None.
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: None. Basin Area: Grass (10%); Hera (10%); Mango tree (5%); Sinwayer (5%).
Biomass in core area	NA

### **E. Socio-Economy at Basin**

Nearby settlement	Siraha; 9 km west from lake; Main trail: Siraha-Aurahi road.
Land use	Forest land (0.5%); Shrub land (5%); Grass land (1.5%); Agriculture (30%); Settlement (60%); Wetlands (3%).
Demography	Population: 350; Male: 180; Female: 170; HHs: 48; Brahmin/Chettri (60%); Dalit (38%); Others (2%); Major Religion: Hinduism; Major Dialect: Maithili.
Education	Primary level (90%); School level certificate (+2) (8%); University level (1%).
Occupation	Agriculture (60%); Employment (5%); Trade/Business (5%); Remittance (40%); wages/labour (10%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	250 no.
Traditional production system	None
Traditional water use practices	Canal (1) and community pond (2).
Cultural record	Religious site. (Dewani temple; people believed that wishes get fulfilled if worshipped in this temple).
Genesis/origin of lake	None

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock.
Cultural services	None

### **G. Restoration/Management**

Structural management	None.
Non-structural management	None.

Conservation plan None.

Monitoring plan None.

**H. Tourism information**

**I. Lake condition** Degrading.



### 3. Beli Pokhari

Code: P2-D8-003

Topo sheet no: N/A

Date of inventory: May 24, 2013

Compiler's name: Santosh Khadka,  
Sushil Khadka, Suman Kafle and  
Prakash sigdel



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat</u> : 26.70811 N; <u>Lon</u> : 86.4544 E; Alt: 111.87 m amsl.
Geographical position	Tarai.
Administrative feature	EDR; Siraha district; Sisauni VDC; 2 ward; Beli
Boundary	<u>Core Area</u> : Agriculture land in east; Path in west; Agriculture land in south; Agriculture land in north. <u>Basin Area</u> : Agriculture land in east; Path in west; Agriculture land in south; Agriculture land in north.
Management Responsibility	Local community
Wetlands type	Freshwater/natural; Riverine; Temporary

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 41 <sup>0</sup> C (Jun/Jul). <u>Avg. Min.</u> :
Physical feature	
Area	<u>Core Area</u> : 1.5 ha; Avg. Length: 300 m; Avg. Width: 50 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 3 - 1 m; <u>Basin Area</u> : 2 ha.

#### C. Hydrological feature

Water Volume	NA
Water quality	<u>Physicochemical parameter</u> : Temp.: 29 <sup>0</sup> C; Transparency: 0.15m;
Soil feature	Grey and dark color, sandy loam texture.
Shocks/vulnerability	None

#### D. Biological feature

Major aquatic plants	Phytoplankton: NA. Zooplankton: NA Core Area: Cynodon sp (LN: Dubo; HT: Sm, LU: Grass, religious), Zizania (HT: Sm)
Major plants in basin	Mangifera indica (Mango tree; HT: Tr; LU: Fruit); Ficus bengalensis (LN: Bar; HT: Tr; LU: Religious, Ful); Bambusa sp (Bamboo; HT: Sh; LU: Fd); Ficus religiosa (LN: Peepal Ht: Tr, LU: religious tree, Fd); Eucalyptus sp (LN: Masala; HT: Tr; LU:); Dibergia sisso (Sisso; HT: Tr; LU: Tm).

Fish	Heteropneustes (LN: Singi; N/C: 2; LU: Meat) Labeosp (LN: Rahu; N/C: 2; LU: Meat); cirrhinus mirgala (LN: Naini; N/C: 3; LU: Meat); catla catla (LN: Bhyakur; N/C: 2; LU: Meat) .... (LN: kotri; N/C: 3; LU: Meat) puntis sp (LN: pothi; N/C:3 LU: Meat). All species introduce.
Herpetofauna	Naja naja (Goman, ON: 1); Varanus sp (LN: Sun Gohoro, ON: 1); Hyplobratacus rigrinus (FrogON: 3); Testudo (LN: Kachuwa ON: 1); Nareix piscator (LN: Dhodiya ON: 2).
Birds	Ardea cinera (LN: Bakulla; ON: 5; resident); ... (Garud, ON: 1); ... (LN: Koeli, ON: 3); ... (LN: Hans; ON: 3); Acrifotheres foseus (LN: Maina; ON: 2).
Mammals	Canis aureus (Jackle, ON: 3); Macaca mulata (Monkey; ON; 1) Canis sp (Fox: ON; 1).
Invasive alien species	None.
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: Grass (10%). Basin Area: Grass (20%) Bhaith (10%); Mirchiya (15%); Mango (10%).
Biomass in core area	NA

### **E. Socio-Economy at Basin**

Nearby settlement	Kalian beli; 100 m from lake; Main trail: Mahendra highway – Beli.
Land use	Forest land (5%); Shrub land (5%); Grass land (10%); Agriculture (40%); Settlement (30%); Wetlands (5%); Others (5%);
Demography	Population: 53; Male: 21; Female: 32; HHs: 8; Dalit (100%); Major Religion: Hinduism; Major Dialect: Maithili.
Education	Primary level (70%); School level certificate (+2); None; University level: None
Occupation	Agriculture (0%); Employment (0%); Trade/Business (0%); Remittance (0%). others-pig farm (100%)
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	70 no.
Traditional production system	None NTFPs: None
Traditional water use practices	None
Cultural record	Bhajan Sardar temple.
Genesis/origin of lake	Previously there was a river named kalian dehi then slowly it turns into a lake like a canal shape.

### **F. Ecosystem Goods/Services**

Provisional services	water supply for irrigation when there is excess of water, Water for livestock.
Cultural services	None

### **G. Restoration/Management**

Structural management	Dam.
Non-structural management	None.

Conservation plan	None.
Monitoring plan	None.
<b>H. Tourism information</b>	NA
<b>I. Lake condition</b>	Degrading.

#### 4. Bishnupur Pokhari

Code: P2-D8-004

Toposheet no: 2686 06A

Date of inventory: May 28,2013

Compiler's name: Sushil Khadka,  
Santosh khadka, Prakash Sigdel,  
Suman Kafle.



##### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26.73187 N; <u>Lon.</u> : 86.26263 E; <u>Alt.</u> : 125.81m amsl.
Geographical position	Tarai.
Administrative feature	EDR; Siraha district; Bishnupur VDC; 5 wards; Bishnupur.
Boundary	<u>Core Area</u> : Path and Settlement in east; Path and settlement in west: settlement in south; settlement in north. <u>Basin Area</u> : Ag land and settlement in east; settlement and Ag land in west; settlement and Ag land in south; Ag land and settlement in north.
Management Responsibility	Bishnupur VDC.
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

##### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 40°C (Jun/Jul). <u>Avg. Min.</u> : -
Physical feature	
Area	<u>Core Area</u> : 1 ha; Avg. Length: 100 m; Avg. Width: 100 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 1.5 - 2 m; <u>Basin Area</u> : 1.5ha.

##### C. Hydrological feature

Water Volume	NA
Water quality	<u>Physicochemical parameter</u> : Temp.: 25°C; Transparency: 0.40m
Soil feature	Dark color, Clay loam texture.
Shocks/vulnerability	None.

##### D. Biological feature

Major aquatic plants	Phytoplankton: NA Zooplankton: NA Core Area: Eichhornea sp (LN: jankumbhi; HT; Sm); Cynodon sp (LN; dubo; HT; sm); ... (LN; Hera; HT; Sm)
Major plants in basin	<i>Dalbergia sisoo</i> (Sisso; HT: Tr; LU: Tm) Ficus religiosa (LN: Pipal; HT: Tr; LU: religious tree, fd); ... (LN: Sikat; HT: Hr); ..... (LN: AshokHT: Tr); ... (LN: Adir; HT: Sh); Mangifera indica (Mango:HT: Tr; LU: fruit).

Fish	Heteropneustes fossilis (LN: Singi; N/C: 3; LU: Meat); Labeo sp (LN: Rahu; N/C: 2; LU: Meat); Cirrhinus mirgala (LN: Naini; N/C: 3; LU: Meat); Catla catla (LN: Bhyakur; N/C: 1; LU: Meat). All species introduce.
Herpetofauna	... (LN: cheparo, ON: 2); Narrix piscator (dhodiya, ON: 1); Naja naja (ON: 1); Varanus sp. (LN: Gohoro; ON: 1).
Birds	Pichnonothus sp. (LN: Jureli; ON: 1; Migratory); Corvus sp. (LN: kaag, ON: 6); Arde cinera (LN: Bakulla, ON: 2); ... (LN; Silli, ON: 3); ... (LN: koili; ON: 2); Acrifotheres fuseus (LN: Maina, ON: 1)
Mammals	Canisaureus (Jackal; ON; 1); Canis sp (Fox: ON; 2); <i>Felis chaus</i> (Jungle cat, ON: 2); Macaca mulata (Monkey)
Invasive alien species	Plants: Eichhornea sp (20%) Animals: None
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: Eichhornea sp (20%) Basin Area: Colocasia esculenta (10%); Banana (5%); Papaya (10%).
Biomass in core area	None

### **E. Socio-Economy at Basin**

Nearby settlement	Bishnupur bazaar; 400 m from lake; Main trail: siraha-lahan road.
Land use	Forest land (0.5%); Shrub land (1%); Grass land (12%); Agriculture (40%); Settlement (40%); Wetlands (3%); Others (3.5%);
Demography	Population:385; Male: 205; Female: 180; HHs: 55; Brahmin/Chettri (55%); Janajati (20%); Dalit (10%); Others (15%); Major Religion: Hinduism; Major Dialect: Maithali.
Education	Primary level (90%); School level certificate (+2) (15%); University level (2%).
Occupation	Agriculture (70%); Employment (6%); Trade/Business (10%); Remittance (35%); Wages/labor (60%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	330 no.
Traditional production system	None. NTFPs: None
Traditional water use practices	community pound (4).
Cultural record	none.
Genesis/origin of lake	none

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock; fishery production.
Cultural services	none.

### **G. Restoration/Management**

Structural management	none
Non-structural management	none.
Conservation plan	none.

Monitoring plan

None.

**H. Tourism information**

none.

**I. Lake condition**

Degrading.

## 5. Dewal Subba Pokhari

Code: P2-D8-005

Topo sheet no: N/A

Date of inventory: June 1, 2013

Compiler's name: Sushil khadka,  
Santosh Khadka, Prakash Sigdel,  
Suman Kafle.



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26.73305 N; <u>Lon.</u> : 86.39751E; <u>Alt.</u> : 125.33 amsl.
Geographical position	Tarai.
Administrative feature	EDR; Siraha district; Hanumannagar (Pradha) VDC; 7 wards; kurwa.
Boundary	<u>Core Area</u> : Ag land in east; Temple (hanuman) in west; Ag land in south; Road in north. <u>Basin Area</u> : Ag land in east; Ag land in west; Settlement in south; Road in north.
Management Responsibility	Hanumannagar (Pradha) VDC.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 42°C (Jun/Jul). <u>Avg. Min.</u> : -
Physical feature	
Area	<u>Core Area</u> : 1.6 ha; Avg. Length: 130 m; Avg. Width: 105 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 1.5 – 2.5 m; <u>Basin Area</u> : 2 ha.

### C. Hydrological feature

Water Volume	NA
Water quality	<u>Physicochemical parameter</u> : Temp.: 28°C; Transparency: 0.55 m;
Soil feature	Grey color, sandy loam texture.
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	Phytoplankton: NA Zooplankton: NA Core Area: None
Major plants in basin	Mangifera indica (Mango; HT: Tr; LU: Fruit) ;(Banana; HT: Sh; LU: Fruit); Ficus bengalensis (LN: Bar; HT: Tr LU: religious tree); <i>Dalbergia sisoo</i> (Sisso; HT: Tr; LU: Tm, Ful); (LN: Jamun Ht: Tr) ;(LN: Bela; HT: Sh; LU: grass) ;( LN; kuro; HT: Hr).

Fish	... (LN: Singji; N/C: 3; LU: Meat); Labeo sp (LN: Rahu; N/C: 3; LU: Meat); Cirrhinus mirgala (LN: Naini; N/C: 2; LU: Meat); ... (LN: Bhyakur; N/C: 1; LU: Meat). All species introduce.
Herpetofauna	... (LN: cheparo, ON: 2); Narrix piscator (LN: dhodiya, ON: 1); Naja naja (ON: 3); Varanus sp. (ON: 2);
Birds	Pichnonothus sp. (LN: Jureli; ON: 2; Migratory); Corvus sp. (LN: kaag, ON: 5); Arde cinera (LN: Bakulla, ON: 2); ... (LN: Koili; ON: 2); ... (LN: Maina, ON: 1) ... (LN: garud; ON;1) ... (Sparrow: ON;2)
Mammals	... (jackal); Canis sp(Fox); <i>Felis chaus</i> (Jungle cat, ON: 1); Macaca mulata (Monkey).
Invasive alien species	Plants: Azeratum sp. (20%). Animals: None
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: None. Basin Area: Euodia fraxinifolia (5%); Mango (15%); Banana (10%); Neem (3%).
Biomass in core area	None.

### **E. Socio-Economy at Basin**

Nearby settlement	Dhangadi Bazar; 2.5 km from lake; Main trail: Dhangadi – Hanumannagar trail.
Land use	Forest land (0.5%); Shrub land (10%); Grass land (15%); Agriculture (55%); Settlement (15%); Wetlands (4%); Others (0.5%).
Demography	Population: 350; Male: 145; Female: 155; HHs:60; Brahmin/Chettri (25%); Janajati (13%); Dalit (25%); Others (37%); Major Religion: Hindu; Major Dialect: Maithali.
Education	Primary level (98%); School level certificate (+2) (30%); University level (2%).
Occupation	Agriculture (75%); Employment (10%); Trade/Business (5%); Remittance (20%); Wages/labor (40%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	300 no.
Traditional production system	None. NTFPs: None
Traditional water use practices	ritual pond (1)- (Dewal subba Pokhari)
Cultural record	None.
Genesis/origin of lake	Made by person named Dewal subba for domestic purposes before but now VDC is taking responsibility of it.

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock; fishery.
Cultural services	None

### **G. Restoration/Management**

Structural management	None
Non-structural management	None.
Conservation plan	None.



Monitoring plan

None.

**H. Tourism information**

NA

**I. Lake condition**

Degrading.

## 6. Kamal Daha

Code: P2-D8-006

Toposheet no: 2686 02C

Date of inventory: May 28,2013

Compiler's name: Sushil Khadka,

Santos Khadka, Prakash Sigdel,

Suman Kafle.



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26.84519 N; <u>Lon.</u> : 86.30664 E; <u>Alt.</u> : 152.97m amsl.
Geographical position	Tarai.
Administrative feature	EDR; Siraha district; Phulwari VDC; 1 wards; Kamaldaha.
Boundary	<u>Core Area</u> : Forest in east; Forest in west: Road in south; Grass land in north. <u>Basin Area</u> : Forest in east; Forest land in west; Ag land in south; Forest in north.
Management Responsibility	Phulwari VDC.
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 37°C (Jun/Jul). <u>Avg. Min.</u> : -
Physical feature	
Area	<u>Core Area</u> : 4.5 ha; Avg. Length: 400 m; Avg. Width: 200m; Avg. Depth: 1 m; Max-Min Surface Water Level: 1.5 - 2 m; <u>Basin Area</u> : 12.12ha.

### C. Hydrological feature

Water Volume	NA
Water quality	<u>Physicochemical parameter</u> : Temp.:25°C; Transparency: 0.40m;
Soil feature	Grey color, Clay loam texture.
Shocks/vulnerability	None.

### D. Biological feature

Major aquatic plants	Phytoplankton: NA Zooplankton: NA Core Area: Nymphaea sp (LN: kamal ko phul)
Major plants in basin	Ficus bengelensis (LN: Bar; HT: Tr; LU: Religious tree); Dalberagia sisoo (LN: Sisso; HT: Tr; LU: Tm, Ful); <i>Acacia catechu</i> (LN: khayer; HT: Tr; LU: Fd, Tm, Ful); .... (LN: Bel; HT: Tr; LU: Fruit, fd); ... (LN: karma HT: Tr;)... (LN: Bhalayo HT: Tr; LU: Fd) <i>Shorea robusta</i> (LN; Sal; HT; Tr; LU: Tm, Fd, Ful)

Fish	Channa stewarti (LN: Hile; N/C: 2; LU: Meat); Heteropneustes fossilis (LN: Singi; N/C: 3; LU: Meat); Labeo sp (LN: Rahu; N/C: 2; LU: Meat); Cirrhinus mirgala (LN: Naini; N/C: 3; LU: Meat); catla catla (LN: Bhyakur; N/C: 1; LU: Meat). All species introduce.
Herpetofauna	... (LN: Cheparo, ON: 2); Narrix piscator (dhodiya, ON: 1); Naja naja (ON: 1); Varanus sp. (ON: 1).
Birds	Pichnonothus sp. (LN: Jureli; ON: 3; Migratory); Corvus sp. (LN: kaag; ON: 7); Arde cinera (Bakulla, ON: 5) ;(LN: koili; ON: 2); Acrifotheres fuseus (LN: Maina, ON: 1) Amaurornis phoenaurus (LN: Simkukhura; ON: 3) ... (LN; Hasn; ON;6).
Mammals	Canis Sp (Jackel; ON;1); Canis sp (Fox: ON;1); Felis sp (Jungle cat, ON: 1); Macaca mulata (Monkey); Oryctolagus sp (Rabbit; ON;2) ... (LN; dumshi; ON;1) ... (LN; Ratuwa; ON;1).
Invasive alien species	Plants: None Animals: None
Endemic plant/animal	Plant: None Animal: None
Abundance of plants	Core Area: Nymphaea sp(1ha) Basin Area:(LN: karma) (20%); ... (LN: kabro) (10%); Ficus religiosa (10%);
Biomass in core area	None

### **E. Socio-Economy at Basin**

Nearby settlement	Choharwa BazZar; 4 km from lake; Main trail: Chohorwa - Kamaldaha.
Land use	Forest land (20%); Shrub land (15%); Grass land (5%); Agriculture (20%); Settlement (20%); Wetlands (12%); Others (8%).
Demography	Population: 900; Male: 420; Female: 480; HHs: 150; Brahmin/Chettri (25%); Janajati (25%); Dalit (30%); Others (20%); Major Religion: Hindu; Major Dialect: Maithali, Nepali.
Education	Primary level (85%); School level certificate (+2) (15%); University level (2%).
Occupation	Agriculture (70%); Employment (20%); Trade/Business (6%); Remittance (25%) Wages/labor (60%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	750 no.
Traditional production system	None. NTFPs: None
Traditional water use practices	community pound (2).
Cultural record	None.
Genesis/origin of lake	None

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock; fishery; timber; fuelwood;
Cultural services	None

### **G. Restoration/Management**

Structural management	None
Non-structural management	None.

Conservation plan

None.

Monitoring plan

None.

**H. Tourism information**

>1, 50,000 annual visitors (mainly in Kartik Ekadasi); No any guest house. Need improvement in infrastructure and human resource.

**I. Lake condition**

Degrading.

## 7. Mahadev Pokhari

Code: P2-D8-007

Toposheet no: 2686 06A

Date of inventory: May 25, 2013

Compiler's name: Sushil Khadka, Santosh Khadka, Prakash Sigdel and Suman Kafle.



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26.6311 N; <u>Lon.</u> : 86.29662 E; <u>Alt.</u> : 75.10amsl.
Geographical position	Tarai.
Administrative feature	EDR; Siraha district; Aaurahi VDC; 4 wards; Aaurahi.
Boundary	<u>Core Area</u> : land in east; Plants and trees in west; Temple in south; Road in north. <u>Basin Area</u> : Ag land in east; Ag land in west; Ag land in south; Settlement in north.
Management Responsibility	Aaurahi VDC.
Wetlands type	Freshwater/ natural; Lacustrine; Seasonal.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 38 <sup>0</sup> C (Jun/Jul). <u>Avg. Min.</u> : - 4 <sup>0</sup> C (Dec).
Physical feature	
Area	<u>Core Area</u> : 0.6773 ha; Avg. Length: 120 m; 2 m; Avg. Width: 80 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 1.5 - 2 m; <u>Basin Area</u> : 1.49 ha.

### C. Hydrological feature

Water Volume-	NA
Water quality	<u>Physicochemical parameter</u> : Temp.: 22 <sup>0</sup> C; pH: - Transparency: 0.65 m;
Soil feature	Grey and dark color, sandy silt loam texture.
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	Phytoplankton: None Zooplankton: None Core Area: Nymphaea sp (HT: Sm, LU: Orn), Colocasia esculenta (HT: Sm; LN: Karkalo).
Major plants in basin	<i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm, Fd, Ful); <i>Dalbergia sisoo</i> (LN: Sisoo; HT: Tr; LU: Tm, Ful); <i>Acacia catechu</i> (LN:

	khayar; HT: Tr; LU: Tm, Fd); Bombax ceiba (LN: simal; HT: Tr, LU Tm, Fd, Ful); Acanthocephalus sp (LN: kadam; HT: Tr; LU: Tm); (LN: AsaareHt: Tr, LU: Tm, Fd).
Fish	Heteropneustes sp (LN: Singi; N/C: 3; LU: Meat); Channa stewarti (LN: Hile; N/C: 2; LU: Meat); Channa punctatus (LN: Garai; N/C: 3; LU: Meat); Puntis sp (LN: Pothi; N/C: 2; LU: Meat). All species introduce.
Herpetofauna	Varanus sp. (Sungohoro, ON: 1); ... (LN: Hareu, ON: 1); .... (LN: Cheparo, ON: 1).
Birds	... (LN: Suga; ON: 2); Acrifotheres fuseus (LN: Maina ON: 1); Streptopelia sp (Dhukur, ON: 1); Pavo cristatus (LN: Mayur.); .... (LN: Dhanes, ON: 1).
Mammals	Orycatalagussp (Rabbit, ON: 2); Macaca mulata (LN: Bandar); Canis sp (Jackel, ON: 1); Felis sp (Jungle cat, ON: 1).
Invasive alien species	Plants: Eichhornea sp (LN: Jalkhumbi, CO: 20%).
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: Nymphaea sp (20%), Colocasia esculenta (15%). Basin Area: <i>Dalbergia sisoo</i> (20%); Acanthocephalus sp (10%); Mango (15%); Aandi (5%).
Biomass in core area	NA

### **E. Socio-Economy at Basin**

Nearby settlement	Aaurahi; 10 km from lake; Main trail: Siraha– Aaurahi road.
Land use	Forest land (0.5%); Shrub land (5%); Grass land (2%); Agriculture (65%); Settlement (20%); Wetlands (1.5%); others (6%).
Demography	Population: 350; Male: 165; Female: 185; HHs: 50; Brahmin/Chettri (90%); Janajati (-); Dalit (10%); Others (-); Major Religion: Hindu; Major Dialect: Maithali.
Education	Primary level (85%); School level certificate (+2) (30%); University level (5%).
Occupation	Agriculture (55%); Employment (8%); Trade/Business (10%); Remittance (20%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	600no.
Traditional production system	None. NTFPs: none
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	for domestic use.

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock; fishery; timber; fuelwood; fodder.
Cultural services	None.

### **G. Restoration/Management**

Structural management	None.
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Non-structural management	None.
Conservation plans	None.
Monitoring plan	None.
<b>H. Tourism information</b>	None.
<b>I. Lake condition</b>	Degrading.

## 8. Manik Daha

Code: P2-D8-008

Toposheet no: 2686 02 D

Date of inventory: May 30, 2013

Compiler's name: Sushil Khadka,

Santosh Khadka, Prakash Sigdel,

Suman Kafle.



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26.77446 N; <u>Lon.</u> : 86.45307 E; <u>Alt.</u> : 169.31m amsl.
Geographical position	Tarai.
Administrative feature	EDR; Siraha district; Govindapur (Namuna) VDC; 5 wards; Jhitki.
Boundary	<u>Core Area</u> : Road and settlement in east; Road and school in west; Ag land in south; Road and settlement in north. <u>Basin Area</u> : Settlement in east; Ag land in west; Ag in south; Settlement in north.
Management Responsibility	Govindapur VDC.
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 37°C (Jun/Jul). <u>Avg. Min.</u> : -
Physical feature	
Area	<u>Core Area</u> : 6 ha; Avg. Length: 300 m; 2 m; Avg. Width: 100 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 1.5 - 2 m; <u>Basin Area</u> : 8ha.

### C. Hydrological feature

Water Volume	Peak Period: 50 000 m <sup>3</sup> ; Dry period: 0 m <sup>3</sup> ; Inlet: Small stream and Discharge Rate: ... lts/s; Inlet: Khadam Khola and Discharge Rate: 600 lts/s.
Water quality	<u>Physicochemical parameter</u> : Temp.: 20°C; Transparency: 0.35m.
Soil feature	Grey color, Clay loam texture.
Shocks/vulnerability	None.

### D. Biological feature

Major aquatic plants	Phytoplankton: Zooplankton: NA <u>Core Area</u> : Colacasia escelenta (LN: <i>karkalo</i> ; HT: Sm); <i>Nymphaea sp</i> (HT: Sm; LU: Gift for god, Orn). ... (LN: Kumleni; HT:sm).
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Major plants in basin	Dalbergia sisso (LN: Sisau; HT: Tr; LU: Tm); Acanthocephalus sp (LN: kadam; HT: Tr; LU: Tm, Ful); Ficus bengalensis (LN: Bar; HT: Tr; LU: religious tree); Bambusa sp (LN: Bas; HT: sh; LU: Grass, foliage); (LN: Hearsa Ht: Sh) ;(LN: Bhait; HT: Sh; LU: grass); Mangifera indica (Mango; HT: Tr; LU: Fruit).
Fish	Heteropneustes fossilis (LN: Singi; N/C: 3; LU: Meat); Labeo sp (LN: Rahu; N/C: 2; LU: Meat); Cirrhinus mirgala (LN: Naini; N/C: 3; LU: Meat); catla catla (LN: Bhyakur; N/C: 1; LU: Meat). All species introduce.
Herpetofauna	... (LN: cheparo, ON: 2); Narrix piscator (dhodiya, ON: 1); Naja naja (ON: 1); Varanus sp. (LN: Gohoro; ON: 1);
Birds	Pichnonothus sp. (LN: Jureli; ON: 3; Migratory); Corvus sp. (LN: kaag, ON: 7); ... (Bakulla, ON: 2); ... (LN: Silli, ON: 3); .... (LN: Jhilla, ON: 1); ... (LN: Koili; ON: 2); Acrifotheres fuseus (Maina, ON: 1)
Mammals	canissp (Jackel); Canis sp(Fox); Felis sp (Jungle cat, ON: 1); Macaca mulata (Monkey).
Invasive alien species	Plants: NoneAnimals: None Limas sp (LN: Chiple Kira, ON: 4).
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: Nymphaea sp (30%), karkalo (10%)Grass (5%). Basin Area: (LN: hera; Co: 20%); ... (LN: bhait; Co:10%); Dalbergia sisso (10%).
Biomass in core area	None

### **E. Socio-Economy at Basin**

Nearby settlement	Lahan; 7 km from lake; Main trail: Lahan - Manik daha.
Land use	Forest land (.5%); Shrub land (10%); Grass land (3%); Agriculture (40%); Settlement (35%); Wetlands (3%); Others (8.5%).
Demography	Population: 690; Male: 290; Female: 400; HHs: 115; Brahmin/Chettri (10%); Janajati (10%); Dalit (70%); Others (10%); Major Religion: Hindu; Major Dialect: Maithali).
Education	Primary level (85%); School level certificate (+2) (15%); University level (1%).
Occupation	Agriculture (70%); Employment (5%); Trade/Business (10%); Remittance (20%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	850 No.
Traditional production system	None. NTFPs: none
Traditional water use practices	kuwa (6).
Cultural record	None.
Genesis/origin of lake	None

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock; fishery; timber; fuelwood; fodder/forage; wild fruit.
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Cultural services

Historic site for ChhatFestival; local fair (Mela) in every Nepali new year.

### **G. Restoration/Management**

Structural management

none

Non-structural management

Informal restriction.

Conservation plan

Available.

Monitoring plan

None.

### **H. Tourism information**

>50000 annual visitors (mainly in new year); no any house; locally operated hotel-3. Needs improvement in infrastructure and human resource.

### **I. Lake condition**

Degrading.

## 9. Narahiya Pokhari

Code: P2-D8-009

Toposheet no: 2686 06A

Date of inventory: April 27, 2013

Compiler's name: Santosh Khadka, Sushil Khadka, Suman Kafle and Prakash Sigdel



### A. General Feature

Conservation status	None.
Geographical coordination	Lat: 26.69965 N; Lon: 86.25425 E; Alt: 74.14 m amsl
Geographical position	Tarai.
Administrative feature	EDR; Siraha district; Hanuman Nagar VDC; 1 ward; Narahiya
Boundary	<u>Core Area</u> : Settlement in east; Ground in west: agriculture land in south; road in north. <u>Basin Area</u> : Ramjanaki mandir in east; Settlement in west; agriculture land in south; Settlement in north.
Management Responsibility	Hanuman Nagar VDC
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.:</u> 40°C (Jun/Jul). <u>Avg. Min.:</u>
Physical feature	
Area	<u>Core Area</u> : 12 ha; Avg. Length: 300 m; Avg. Width: 400 m; Avg. Depth: 3 m; Max-Min Surface Water Level: 5- 3 m; <u>Basin Area</u> : 13 ha.

### C. Hydrological feature

Water Volume	
Water quality	<u>Physicochemical parameter</u> : Temp.: 30 °C; Transparency: 25 cm.
Soil feature	Grey and dark color, sandy loam texture.
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	Phytoplankton: NA. Zooplankton: NA Core Area: Digitaria sps. (HT: Sm, LU: grass)
Major plants in basin	Mangifera indica (Mango tree; HT: Tr; LU: Fruit); Ficus bengalensis sp (LN: Bar; HT: Tr; LU: Tm, Ful, religious tree); Bambusa sp (Bamboo; HT: Sh; LU: Fd, Handicraft); Ficus religiosa (LN: Pipal Ht: Tr, LU: Tm, Fd, religious tree); .... (Banana tree; HT: sh: LU: Fruit); ... (LN: Kuro; HT: Hr) Colacasia esculenta (LN: karkalo; HT: Hr; LU: Food) ... (LN: Sinwayer; HT: Hr;).

Fish	Heteropneustes (LN: Singi; N/C: 2; LU: Meat) Labeo sp (LN: Rahu; N/C: 2; LU: Meat); cirrhinus mirgala (LN: Naini; N/C: 3; LU: Meat); catla catla (LN: Bhyakur; N/C: 2; LU: Meat) ... (LN: kotri; N/C: 3; LU: Meat) puntis sp (LN: pothi; N/C: 3 LU: Meat). All species introduce.
Herpetofauna	Naja naja (Goman); Varanus sp (Sun Gohoro; ON: 1); (Frog ON: 1); Testudo sp (Kachuwa ON: 1); Nareix piscator (Dhodiya ON: 1).
Birds	... (LN: Bakulla; ON: 5; resident); ... (LN: Garud, ON: 3); ... (LN: Koeli, ON: 1); ... (LN: Hans; ON: 3); ... (LN: Mynah; ON: 2).
Mammals	Canis sp (Jackel; ON: 2); Macaca mulata (Monkey; ON:3).
Invasive alien species	None.
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: ... (LN: Kuro; CO:10%). Basin Area: (LN: Kuro; CO: 20%); Banana tree (10%); Mango tree (15%).
Biomass in core area	NA

### **E. Socio-Economy at Basin**

Nearby settlement	Bhaluwahi; 1 km west from lake; Main trail: Siraha-Lahan road.
Land use	Forest land (0%); Shrub land (15%); Grass land (10%); Agriculture (45%); Settlement (25%); Wetlands (5%).
Demography	Population: 250; Male: 120; Female: 130; HHs: 50; Dalit (100%); Major Religion: Hindu; Major Dialect: Maithili.
Education	Primary level (100%); School level certificate (+2) (12%); University level (2%).
Occupation	Agriculture (60%); Employment (30%); Trade/Business (5%); Remittance (40%); wages/labor (20%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	190 no.
Traditional production system	None. NTFPs: none.
Traditional water use practices	Local irrigation system: Canal-4s
Cultural record	Ram janaki temple. People believed that bathing in in Pokhari might fulfill their wishes.
Genesis/origin of lake	According to the people's perception the Pokhari was made many years ago by a huge giant.

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock, Local irrigation facility.
Cultural services	Religious site.

### **G. Restoration/Management**

Structural management	None.
Non-structural management	None.
Conservation plan	None.

Monitoring plan None.

**H. Tourism information** NA

**I. Lake condition** Good.

## 10. Naya Bandh

Code: P2-D8-010

Toposheet no: 2686 02 C

Date of inventory: may30, 2013

Compiler's name: Santosh Khadka, Sushil Khadka, Suman Kafle and Parkash Sigdel



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26.79538 N; <u>Lon.</u> : 86.36133 E; <u>Alt.</u> : 143.84 m amsl
Geographical position	Tarai.
Administrative feature	EDR; Siraha district; Ayodhya nagar VDC; 2 ward; Chiyabari
Boundary	<u>Core Area</u> : shrub land and tree in east; Barren land in west; Barren land in south; Barren land in north. <u>Basin Area</u> : Barren land in east; Barren land in west; Barren land in south; Barren land in north.
Management Responsibility	local community
Wetlands type	Freshwater/natural; Lacustrine; Seasonal

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> :39 <sup>0</sup> C (Jun/Jul). <u>Avg. Min.</u> :
Physical feature	
Area	<u>Core Area</u> : 1.3 ha; Avg. Length: 170 m; Avg. Width: 40 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 0.5 - 2 m; <u>Basin Area</u> : 2ha.

### C. Hydrological feature

Water Volume	
Water quality	<u>Physicochemical parameter</u> : Temp.:28 <sup>0</sup> C; Transparency: 10 cm.
Soil feature	Grey and dark color, sandy loam texture.
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	Phytoplankton: NA Zooplankton: NA Core Area: None
Major plants in basin	Dalbergia sisso (LN: sisau; HT: Tr; LU: Tm, Ful) Mangifera indica (Mango tree; HT: Tr; LU: Fruit); Ficus bengalensis (LN: Bar; HT: Tr; LU: Ful, religious tree); Ficus religiosa (LN: Pipal Ht: Tr, LU: Tm, Fd, religious tree); Bambusa sp (Bamboo; HT: Sh; LU: Tm, ful); Colacasia esculenta (LN: Karkalo; HT: Hr; LU: Fd) ... (LN: Sinwayer; HT: Hr) ;(LN: Heyara; Ht: Sh).

Fish	heteropneustes (LN: Singi; N/C: 2; LU: Meat); labeo sp (LN: Rahu; N/C: 2; LU: Meat); Cirrhinus mirgala (LN: Naini; N/C: 3; LU: Meat); Catla catla (LN: Bhyakur; N/C: 2; LU: Meat) ... (LN: kotri; N/C:3; LU: Meat); Puntis sp (LN: pothi; N/C: 3 LU: Meat). All species introduce.
Herpetofauna	Naja naja (Goman, ON: 0); Varanus sp (Sun Gohoro, ON: 1); Hyplobratacus rigrinus (Frog ON: 1) ;(LN: Kachuwa); Nareix piscator (LN: Dhodiya ON: 1).
Birds	... (LN: Bakulla; ON: 5; resident); ... (LN: Garud, ON: 3); ... (LN: Koeli, ON: 1); ... (LN: Pani hans, ON: 3); ... (Mynah; ON: 2)
Mammals	Canis sp (Jackel, ON: 2).
Invasive alien species	None.
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: NoneBasin Area:(LN: Heyara; CO: 20%) Mango tree (20%); Bamboo (10%).
Biomass in core area	NA

### **E. Socio-Economy at Basin**

Nearby settlement	Kasaha; 1 km south from lake; Main trail: Kasaha-chiyabari road.
Land use	Forest land (0.5%); Shrub land (10%); Grass land (60%); Agriculture (0.5%); Settlement (20%); Wetlands (4%); others (5%).
Demography	Population: 252; Male: 120; Female:132; HHs: 42; Brahmin/Chettri (10%); Janajati (40%); Dalit (25%); Others (25%); Major Religion: Hindu; Major Dialect: Maithili and Nepali).
Education	Primary level (80%); School level certificate (+2) (25%); University level (5%).
Occupation	Agriculture (90%); Employment (5%); Trade/Business (5%); Remittance (40%); wages/labor (30%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	200 no.
Traditional production system	None
Traditional water use practices	Local irrigation system, two community pond (Water source for livestock and domestic purpose).
Cultural record	None
Genesis/origin of lake	None

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock, and domestic purpose
Cultural services	None

### **G. Restoration/Management**

Structural management	Afforestation
Non-structural management	None.

Conservation plan	None.
Monitoring plan	None.
<b>H. Tourism information</b>	None
<b>I. Lake condition</b>	Degrading.



## 11. Patari Pokhari

Code: P2-D8-011

Toposheet no:

Date of inventory: May 23, 2013

Compiler's name: Sushil Khadka,

Santosh Khadka, Prakash Sigdel,

Suman Kafle.



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26.67115 N; <u>Lon.</u> : 86.39593 E; <u>Alt.</u> : 73.66 m amsl.
Geographical position	Tarai.
Administrative feature	EDR; Siraha district; Maheshpur VDC; 9 ward; Patari.
Boundary	<u>Core Area</u> : Ag land in east; Road in west; Temple in south; Road in north. <u>Basin Area</u> : Ag land in east; school and Ag land in west; Market area in south; Ag land and road in north.
Management Responsibility	Maheshpur VDC.
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 40°C (Jun/Jul). <u>Avg. Min.</u> : -
Physical feature	
Area	<u>Core Area</u> : 1.35 ha; Avg. Length: 130 m; Avg. Width: 100 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 1.5 - 2 m; <u>Basin Area</u> : 4ha.

### C. Hydrological feature

Water Volume	NA
Water quality	<u>Physicochemical parameter</u> : Temp.:25°C; Transparency: 0.40 m.
Soil feature	Dark color and sandy loam texture.
Shocks/vulnerability	None.

### D. Biological feature

Major aquatic plants	Phytoplankton: NA Zooplankton: NA Core Area: None
Major plants in basin	Ficus religiosa (LN: Pipal; HT: Tr; LU: Fd, religious tree); ... (LN: karma; HT: Tr; LU: Tm, Ful); ... (LN: Ashok; HT: Tr); ... (LN: kabro; HT: Tr); Mangifera indica (Mango; HT: Tr; LU: Fruit).
Fish	Heteropneustes fossilis (LN: Singi; N/C: 3; LU: Meat); Labeo sp (LN: Rahu; N/C: 2; LU: Meat); Cirrhinus mirgala (LN: Naini;

	N/C: 3; LU: Meat); Catla catla (LN: Bhyakur; N/C: 1; LU: Meat). All species introduce.
Herpetofauna	... (LN: cheparo, ON: 2); Narrix piscator (dhodiya, ON: 1); Naja naja (ON: 1); Varanus sp. (LN: sungohoro; ON: 1).
Birds	Pichnonothus sp. (LN: Jureli; ON:2; Migratory); Corvus sp. (LN: kaag, ON:5); ... (Bakulla; ON: 2); ... (Silli, ON: 2); ... (LN: Jhilla, ON: 1); ... (LN: koili; ON: 2); ... (LN: Mynah; ON: 1).
Mammals	Canis sp (Jackel); Canis sp (Fox); Felis sp (Jungle cat, ON: 1); Macaca mulata (Monkey; ON;2)
Invasive alien species	Plants: NoneAnimals: None
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: NoneBasin Area:(LN: KarmaCO: 20%); ... (LN: Kabro; CO:10%);(LN: Pipal; CO: 10%).
Biomass in core area	None

### **E. Socio-Economy at Basin**

Nearby settlement	Dhangadi bazaar; 9 km from lake; Main trail: Dhangadi – Patari bazaar.
Land use	Forest land (0.5%); Shrub land (1%); Grass land (2%); Agriculture (45%); Settlement (35%); Wetlands (3%); Others (12.5%).
Demography	Population: 400; Male: 170; Female: 230; HHs: 50; Brahmin/Chettri (5%); Janajati (30%); Dalit (45%); Others (20%); Major Religion: Hinduism; Major Dialect: Maithali.
Education	Primary level (85%); School level certificate (+2) (10%); University level (2%).
Occupation	Agriculture (20%); Employment (10%); Trade/Business (60%); Remittance (20%); Wages/labor (60%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	230no.
Traditional production system	None. NTFPs: none
Traditional water use practices	Six community pond uses for domestic purposes.
Cultural record	Religious site.
Genesis/origin of lake	none

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock; fishery.
Cultural services	Religious /Spiritual service (There is the belief that people who bath in that pond and worshipped Patari temple will bear children and fair on Baisakh 1 <sup>st</sup> .)

### **G. Restoration/Management**

Structural management	Build up of dikes/dams.
Non-structural management	Informal restriction.
Conservation plan	None.
Monitoring plan	None.

**H. Tourism information**

>1, 00,000 annual visitors (mainly in Nepali New Year); no any guest house; locally operated hotel-2. Needs improvement in infrastructure and human resource.

**I. Lake condition**

Degrading.

## 12. Purni Pokhari

Code: P2-D8-012

Toposheet no: 2686 05 D

Date of inventory: May 25, 2013

Compiler's name: Sushil Khadka,

Santosh Khadka, Prakash Sigdel,

Suman Kafle.



### A. General Feature

Conservation status	None.
Geographical coordination	Lat.: 26.62902 N; Lon.: 86.19213 E; Alt.: 59.72m amsl.
Geographical position	Tarai.
Administrative feature	EDR; Siraha district; Madar VDC; 3 wards; Madar.
Boundary	Core Area: Road in east; Road in west: settlement in south; Road in north. <u>Basin Area</u> : Settlement in east; settlement in west; settlement in south; Ag in north.
Management Responsibility	Madar VDC.
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp.: 42°C (Jun/Jul). Avg. Min.: -
Physical feature	
Area	Core Area: 2 ha; Avg. Length: 130 m; 2 m; Avg. Width: 110 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 1.5 – 2.5 m; <u>Basin Area</u> : 3ha.

### C. Hydrological feature

Water Volume	NA
Water quality	<u>Physicochemical parameter</u> : Temp.: 24 °C; Transparency: 0.15 m.
Soil feature	Grey color, Clay loam texture.
Shocks/vulnerability	None.

### D. Biological feature

Major aquatic plants	Phytoplankton: None Zooplankton: None Core Area: Colacasia esculenta (LN: karkalo; HT: Sm, LU: Fd), Nymphaea sp (HT: Sm; LU: Orn). ... (LN: Makhan (in maithili): HT: Sm; LU: flowers used for religious purposes).
Major plants in basin	.... (LN: Rahi; HT: Sh; LU:-); ... (LN: Jamun; HT: Tr; LU: Tm, Ful, Med); .... (LN: Khangra; HT: Hr) ;(LN: Mirchaiya Ht: Sh); ... (LN: Andi; HT: Sh).

Fish	... (LN: Singji; N/C: 3; LU: Meat); Labeo sp (LN: Rahu; N/C: 2; LU: Meat); Cirrhinus mirgala (LN: Naini; N/C: 3; LU: Meat); ... (LN: Bhyakur; N/C: 1; LU: Meat). All species introduce.
Herpetofauna	... (LN: cheparo, ON: 2); Narrix piscator (LN: Dhodiya, ON: 1); Naja naja (ON: 1); Varanus sp. (LN: Sungohoro; ON: 1).
Birds	Pichnonothus sp. (LN: Jureli; ON: 3; Migratory); Corvus sp. (LN: kaag, ON: 7); ... (LN: Bakulla, ON: 2); ... (LN: silli, ON: 3); ... (LN: Jhilla, ON: 1); ... (LN: Koili; ON: 2); ... (LN: Mynah; ON: 1)
Mammals	Canis sp(jackel); Canis sp(Fox); Felis sp (Jungle cat; ON: 1); Macaca mulata (Monkey).
Invertebrates	Limas sp (LN: Chiple Kira, ON: 3).
Invasive alien species	Plants: Eichhornea sp (30%). Animals: None
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: Eichhornea sp (30%), Makhan (70%). Basin Area:(LN: Mirchaiya) (50%); ... (LN: Jamun) (10%).
Biomass in core area	<i>none</i>

### **E. Socio-Economy at Basin**

Nearby settlement	Siraha Bazar; 3.5 km north from lake; Main trail: Siraha - Madar road.
Land use	Forest land (0.5%); Shrub land (10%); Grass land (2%); Agriculture (30%); Settlement (45%); Wetlands (3%); Others (9.5%);
Demography	Population: 700; Male: 310; Female: 390; HHs:100; Brahmin/Chettri (25%); Janajati (15%); Dalit (30%); Others (30%); Major Religion: Hindu; Major Dialect: Maithali.
Education	Primary level (90%); School level certificate (+2) (25%); University level (3%).
Occupation	Agriculture (70%); Employment (6%); Trade/Business (3%); Remittance (35%); Wages/labor (55%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	150No.
Traditional production system	None NTFPs: None
Traditional water use practices	Three community pond for livestock and domestic purposes.
Cultural record	None.
Genesis/origin of lake	None

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock and fishery.
Cultural services	None

### **G. Restoration/Management**

Structural management	None
Non-structural management	None.
Conservation plan	None.

Monitoring plan

None.

**H. Tourism information**

None.

**I. Lake condition**

Degrading.

### 13. Rajdevi Pokhari

Code: P2-D8-013

Toposheet no: 2686 05B

Date of inventory: May 25, 2013

Compiler's name: Sushil Khadka,  
Santosh Khadka, Prakash Sigdel,  
Suman Kafle.



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 26.63282N; <u>Lon.</u> : 86.29873E; <u>Alt.</u> :69.82 m amsl.
Geographical position	Tarai.
Administrative feature	EDR; Siraha district; Sirahamunicipality; 8 ward; Mahiswatha.
Boundary	<u>Core Area</u> : Path in east; Temple (Rajdevi) in west: road in south; path in north. <u>Basin Area</u> : Settlement in east; settlement in west; settlement in south; Settlement and Ag land in north.
Management Responsibility	Siraha municipality.
Wetlands type	Freshwater/natural; Lacustrine; Seasonal.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 39 <sup>0</sup> C (Jun/Jul). <u>Avg. Min.</u> :
Physical feature	
Area	<u>Core Area</u> : 1.5 ha; Avg. Length: 170 m; Avg. Width: 90 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 1.5 - 2 m; <u>Basin Area</u> : 2 ha.

#### C. Hydrological feature

Water Volume	NA
Water quality	<u>Physicochemical parameter</u> : Temp.: 27 <sup>0</sup> C; Transparency: 0.55 m
Soil feature	Grey color, sandy loam texture.
Shocks/vulnerability	None.

#### D. Biological feature

Major aquatic plants	Phytoplankton: None Zooplankton: None Core Area: Cynodon dactylon (LN: dubo; HT: sm;) ... (LN; khangra; sm)
Major plants in basin	Mangifera indica (Mango; HT: Tr; LU: Fruit); ... (Banana; HT: Sh; LU: Fruit); Ficus bengalensis (LN: Bar; HT: Tr); Bambusa sp (LN: Bas; HT: Sh; LU: Grass); (LN: khajur Ht: Sh; LU: Fruit) ;(LN: Jamun; HT: Tr; LU: Ful).
Fish	Heteropneustes (LN: Singi; N/C: 3; LU: Meat); Labeo sp (LN: Rahu; N/C: 3; LU: Meat); Cirrhinus mirgala (LN: Naini; N/C:

	2; LU: Meat); ... (LN: Bhyakur; N/C: 1; LU: Meat). All species introduce.
Herpetofauna	... (LN: Cheparo, ON: 2); <i>Natrix piscator</i> (LN: Dhodiya, ON: 1); <i>Naja naja</i> (ON: 1); <i>Varanus</i> sp. (LN: Sungohoro; ON: 1).
Birds	<i>Pichnonothus</i> sp. (LN: Jureli; ON: 3; Migratory); <i>Corvus</i> sp. (LN: kaag, ON: 7); ... (LN: Bakulla, ON: 2); ... (LN: Silli, ON: 3); ... (LN: Jhilla, ON: 1); ... (LN: Koili; ON: 2); ... (LN: Mynah; ON: 1).
Mammals	<i>Canis</i> sp(Jackel); <i>Canis</i> sp (Fox); <i>Felis</i> sp (Jungle cat, ON: 1); <i>Macaca mulata</i> (Monkey)
Invasive alien species	Plants: NoneAnimals: None
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: <i>Cynodon dactylon</i> (10%) ... (LN: khangra; CO: 5%). Basin Area:(LN: khajur; CO: 20%); Mango (10%); ... (LN; Jamun; CO: 10%).
Biomass in core area	None

### **E. Socio-Economy at Basin**

Nearby settlement	Siraha Bazar; 400 m from lake; Main trail: siraha-lahan road.
Land use	Forest land (0.5%); Shrub land (10%); Grass land (15%); Agriculture (15%); Settlement (50%); Wetlands (5%); Others (4.5%);
Demography	Population: 225; Male: 105; Female: 120; HHs: 45; Brahmin/Chettri (80%); Janajati (3%); Dalit (15%); Others (2%); Major Religion: Hinduism; Major Dialect: Maithali.
Education	Primary level (99%); School level certificate (+2) (60%); University level (20%).
Occupation	Agriculture (80%); Employment (50%); Trade/Business (25%); Remittance (40%); Wages/labor (30%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	350 No.
Traditional production system	None. NTFPs: none
Traditional water use practices	None
Cultural record	None.
Genesis/origin of lake	None

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock and domestic purposes; fishery.
Cultural services	None

### **G. Restoration/Management**

Structural management	None
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.



**H. Tourism information**

None

**I. Lake condition**

Degrading.

## Annex-25: Inventory of lakes in Chitwan district

### 1. Anjana Taal

Code: P3-D2-001

Toposheet no: 2784 06 C

Date of inventory: June 04, 2013

Compiler's name: Shanti Paudel/

Manju Gautam



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°37'18"N; <u>Lon.</u> : 84°16'27" E; <u>Alt.</u> : 162m.
Geographical position	Terai (Dun Valley)
Administrative feature	CDR; Chitwan district; Divyanagar VDC; 1 wards; Jyotinagar. (Current: Bharatpur Municipality; Ward no. 26)
Boundary	<u>Core Area</u> : <i>Chautaro</i> in east; <i>Nahar</i> in west; Trail in south; Agricultural land in north
Management Responsibility	Government (Managed by VDC)
Wetlands type	Freshwater/ natural; Riverine; Perennial.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 32°C (Summer); <u>Avg. Min.</u> : 10°C (Winter). <u>Avg. Max: Rainfall.</u> : 150cm (Summer); <u>Avg. Min.</u> : Dry Winter Source: DDC Profile of Chitwan, 2068.
Physical feature	
Area	<u>Core Area</u> : 1 ha; Avg. Length: 500 m; Avg. Width: 150 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 0.5 - 2 m

#### C. Hydrological feature

Water Volume	Peak Period: 20,000 m <sup>3</sup> ; Dry period: 5,000 m <sup>3</sup> ; Inlet: Nahar Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 34 °C; pH: Slightly acidic.
Soil feature	Dark, Sandy texture
Shocks/vulnerability	None

#### D. Biological feature

Major aquatic plants	Phytoplankton: Spirogyra sps; Zooplankton: NA  Core Area: Pistia stratiotes (LN: Pistia, HT: Ff); Graminae sps (LN: Lahare banso, HT: Herb, HT: Em), Imperata cylindrica (LN: Siru, HT: Em)
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Major plants in basin	Magnifera indica (LN: Aamp, HT: Tr, LU: Fr); Dendrocalamus sps (LN: Bans, HT: Tr, LU: Ful, Fd); Bombax ceiba (LN: Simal, HT: Tr); Musa sps (LN: Kera, HT: Tree, LU: Fr); Trewianudiflora (LN: Vellar, HT: Tr, LU: Fd).
Fish	Cyprinus carpio (LN: Common carp; LU: Meat); Labeo cacruleus (LN: Rhou; LU: Meat, Introduced); Cirrhinus mrigala (LN: Naini carp; LU: Meat, Introduced); Hypophthalmic molitrix (LN: Silver carp; LU: Meat, Introduced); Ctenopharyngodon idella (LN: Grass carp; LU: Meat; Introduced); Catla catla (LN: Bhakur; N/C: Meat; Native) (About 200-300kg fish at one catch, thus each type has around 15-20 number per catch)
Herpetofauna	Rana tigrina (LN: Frog, ON: many); Lizard, Snakes.
Birds	Athene brama (LN: Dangre; ON: 5); Strepto peliadecaocto (LN: Dhukur; LU: Meat); <i>Casmerodius albus</i> (LN: Bakulla Crane, ON: 3), Corvus splendens (LN: Kaag, ON: 1).
Mammals	None
Invasive alien species	Plants: <i>Lantana camara</i> (LN: Banmasa; CO: 25%); Eupatorium adenophorum (LN: Kalo Banmara CO: 1%); Parthenium hysterophorous (LN: Kanike jhar; CO: 20%); Animals: NA
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: Graminae sps; (LN: Lahare banso, Co: 25%), Pistia sps, (2%)
Basin Area:	Trewianudiflora (LN: Vellar, CO: 10%); Bombax ceiba (2%) Magnifera indica (LN: Aamp, CO: 15%); Dendrocalamus sps (LN: Bans, CO: 5%); Musa sps (LN: Kera, CO: 25%); <i>Lantana camara</i> (LN: Banmasa; CO: 5%); Imperata cylindrica (LN: Siru, CO: 20%); Eupatorium adenophorum (LN: Kalo Banmara, HT: Hb, CO: 1%)

### **E. Socio-Economy at Basin/Peripheri**

Nearby settlement	Jyotinagar; 100m from lake; Main trail: Bharatpur-Meghauri Road.
Land use	Settlement (20%); Agricultural (75%); Wetlands (2%).
Demography	HHs: 20; <i>Brahmin/Chettri</i> (85%); <i>Janajati</i> (15%); Major Religion: Hindu; Major Dialect: Nepali
Occupation	Agriculture (80%); Employment (25%); Trade/Business (15%); Remittance (25%)
Jurisdiction/ownership	State
Wetlands dependent community	None
Genesis/origin of lake	None

### **F. Ecosystem Goods/Services**

Provisional services	Irrigating water supply; fishery.
Cultural services	None

### **G. Restoration/Management**

Structural management	Fencing
Non-structural management	None

Conservation plan

None.

Monitoring plan

None

**H. Tourism information**

No visitors; no tourism potentiality.

**I. Lake condition**

Degrading.

## 2. Beeshazari Taal

Code: P3-D2-002

Toposheet no: 2784 06D

Date of inventory: May 26, 2013

Compiler's name: Shanti Paudel/

Manju Gautam



### A. General Feature

Conservation status

Ramsar site/ KBA

Geographical coordination

Lat.: 27°36'54"N; Lon.: 84°27'02" E; Alt.: 190m.

Geographical position

Terai (Dun Valley)

Administrative feature

CDR; Chitwan district; Bharatpur Municipality; 8/9 wards; Barandabhar CF

(Current: Bharatpur Municipality; Ward no. 8)

Boundary

Core Area: Forest/Inlet in north; Bandevi Barabdabhar CF in west; Forest/Trail/Outlet in south; Bandevi Barabdabhar CF in east.

Management Responsibility

Government

Wetlands type

Freshwater/ natural; Riverine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 32°C (Summer); Avg. Min.: 10°C (Winter).  
Avg. Max: Rainfall.: 150cm (Summer); Avg. Min.: Dry Winter  
Source: DDC Profile of Chitwan, 2068.

Physical feature

Area

Core Area: 100 ha; Avg. Depth: 6m; Max-Min Surface Water Level: 1.5 - 2 m; Basin Area: 262 ha.

### C. Hydrological feature

Water Volume

Peak Period: 600,000 m<sup>3</sup>; Inlet: Khageri canal; Outlet: Khageri Canal and Discharge Rate: Dry during field visit.

Water quality

Physicochemical parameter: Temp.: 35°C; pH: Slightly acidic

Soil feature

Dark color, sandy silt texture

Shocks/vulnerability

None

### D. Biological feature

Major aquatic plants

Phytoplankton: Spirogyra sp, Azolla sps. Zooplankton: NA

Core Area: Floating sps: *Trapa bispinosa* (Water chestnut, HT); *Ludwigia adscendens* (Evening primrose); *Azolla imbricata* (Water Velvet); *Lemna sps* (Duckweed).  
Submerged: *Ceratophyllum demersum* (Hornwort); *Hydrilla verticillata* (Hydrilla); *Najas minor* (Water Nymph). Source: Factsheet Beeshazari and Associated Lakes, WWF)

	<p><i>Leersia hexandra</i> (LN: Karaute Ghans, HT: Hb, LU: Grass), <i>Fimbristylis dichotoma</i> (LN: Pani mothe, HT: Hb, LU: Grass); <i>Eichhornia crassipes</i> (LN: Jal kumbhi, HT: Ff, LU: Ornamental). (Field Survey, 2070)</p>
Major plants in basin	<p><i>Shorea robusta</i> (LN: Saal; HT: Tr; LU: Tm, Ful, Plate of leaf); <i>Trewianudiflora</i> (LN: Vellar, HT: Tr, LU: Fd); <i>Lagerstroemia parviflora</i> (LN: Bot Dhainyaro, HT: Tree, LU: Ful); <i>Bombex Ceiba</i> (LN: Simal; HT: Tr); <i>Mikania micarantha</i> (LN: Lahare banmara, HT: Climber); <i>Solanum torvum</i> (LN: Kantakari, HT: Sb, LU: Medicinal); <i>Lantana camara</i> (LN: Banmasa; HT: Sb)</p>
Fish	<p><i>Channa striatus</i> (LN: Saura); <i>Notopetrus notopetrus</i> (LN: Golhai); <i>Xenetodoncancila</i> (LN: Chuche Bam); <i>Heteropneustis fossilis</i> (LN: Singi); <i>Mystus sps</i> (Tengra, Junge); <i>Puntius chola</i>; <i>Oxygaster bacaila</i>; <i>Chana sps</i> (Hile, Bhoti, Garai, Bhaura) (All species are native). <u>Source:</u> <i>The Murry Foundation, 2010; Rhett Butler, 1994-2006</i></p>
Herpetofauna	<p><i>Crocodylus palustris</i> (Mugger crocodile); <i>Gavialis gangeticus</i> (Gharial) <i>Rana Tigrina</i> (Frog); <i>Polypedatus maculates</i> (Tree Frog); <i>Xenochrophis piscator</i> (Water snake); <i>Python molurus</i> (Asiatic Rock Python); <i>Indotestudo elongate</i> (Elongated tortoise); Monitor Lizard.</p>
Birds	<p>Different reports have reported more than 500 bird species in Beeshazari and associated lakes. Some examples are: <i>Aquila clanga</i> (Great spotted eagle); <i>Haliacetes leucoryphus</i> (Pallos's fish eagle); <i>Mycteria leucocephala</i> (Painted stork); <i>Aythya nyroca</i> (Ferruginous Duck); <i>Houbaropsis bengalensis</i> (Bengal Florican); <i>Ewodotis indica</i> (Lesser Florican); <i>Leptoptilos dubius</i> (Greater Adutant); <i>Aquila hastata</i> (Indian spotted Eagle); <i>Chaetornis striatus</i> (Bristled Grassbird) etc. are the migratory birds.</p> <p><i>Leptoptilos javanicus</i> (Lesser Adjutant stork); <i>Ichthyophaga icthyaetus</i> (Grey headed fish eagle); <i>Gyps bengalensis</i> (White Rumped Vulture); <i>Turtoides longirostris</i> (Slender billed babbler); <i>Buceros bicornis</i> (Great Hornbill); <i>Neuphron percnopterus</i> (Egyptian Vulture); <i>Anhingamelano gaster</i> (Oriental Darter); <i>Athene brama</i> (Dangre); <i>Strepto peliadecaocto</i> (Dove); <i>Pavo cristatus</i> (Indian Peafowl) etc. are the Residential birds.</p> <p>Besides number of Storks, ibises, fishing eagles and lesser whistling teals etc are found.</p> <p>(Source: Danphe. Volume 19, Bulletin 1, 2010. Bird Conservation Nepal)</p>
Mammals	<p><i>Rhinoceros unicornis</i> (LN: Gainda; ON: 1); <i>Axis axis</i> (LN: Chital; ON: 7) <i>Cervus unicolor</i> (LN: Jarayo); <i>Elephas maximus</i> (LN: Hatti); <i>Muntiacus muntjak</i> (LN: Ratuwa)</p>
Invasive alien species	<p><u>Plants:</u> <i>Eichhornea Sps</i> (LN: Jalkhumbi, CO:25%); <i>Leersia hexandra</i> (LN: Karaute Ghans, CO: 80%); <i>Ipomoea carnea</i> (LN: Besharam; CO:20%); <i>Mikania macaranta</i> (LN: Lahare banmara, CO:5%); <i>Solanum torvum</i> (LN: Kantakari, CO:5%); <u>Animals:</u> None</p>
Endemic plant/animal	<p><u>Plant:</u> None. <u>Animal:</u> None.</p>
Abundance of plants	<p><u>Core Area:</u> <i>Eichhornea Sps</i> (20%); <i>Leersia hexandra</i> (80%). <u>Basin Area:</u> <i>Shorea robusta</i> (75%); <i>Trewianudiflora</i> (25%);</p>

*Lagerstroemia parviflora* (5%)

### **E. Socio-Economy at Basin/Peripheri**

Nearby settlement	Bharatpur; 2 km from lake; Main trail: Mahendra Highway.
Land use	Forest land (45%); Grass land (5%); Wetlands (50%);
Jurisdiction/ownership	State
Wetlands dependent community	None
Cultural record	None
Genesis/origin of lake	It was formed by combination of water discharged by the spring and Khageri canal

### **F. Ecosystem Goods/Services**

Provisional services	Irrigation water supply, fodder supply
Cultural services	None

### **G. Restoration/Management**

Structural management	None
Non-structural management	Available
Conservation plan	Available
Monitoring plan	Available

### **H. Tourism information**

>8000 annual visitors; Internal and International visitors. Needs improvement in infrastructure and human resource like transportation, lodges etc.

### **I. Lake condition**

Degrading (High population of invasive alien species).

### 3. Ghaila Taal

Code: P3-D2-003

Toposheet no: 2784 06C

Date of inventory: May 26, 2013

Compiler's name: Shanti Paudel/

Manju Gautam



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°33'36"N; <u>Lon</u> : 84°20'00" E; <u>Alt.</u> : 170m.
Geographical position	Terai (Dun Valley)
Administrative feature	CDR; Chitwan district; Jagatpur VDC; 1 ward; Gahailaghari.
Boundary	<u>Core Area</u> : Rapti dam east; Tarail west; Settlement in south; Cottege resturent in north.
Management Responsibility	Machhapalan Krishak Samuha
Wetlands type	Freshwater/ natural; Lacustrine; Seasonal.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 32°C (Summer); <u>Avg. Min.</u> : 10°C (Winter). <u>Avg. Max: Rainfall.</u> : 150cm (Summer); <u>Avg. Min.</u> : Dry Winter <i>Source: DDC Profile of Chitwan, 2068</i>
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#### Physical feature

Area	<u>Core Area</u> : 1 ha; Avg. Length: 200 m; Avg. Width: 50 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 0– 2.5 m.
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#### C. Hydrological feature

Water Volume	Peak Period: 30 000 m <sup>3</sup> ; Dry period: 0 m <sup>3</sup> ; Outlet: Rapti River (Dry during the field visit)
Water quality	<u>Physicochemical parameter</u> : Temp.: 33°C; pH: neutral
Soil feature	Dark color, Sandy silt loam texture
Shocks/vulnerability	A flood in 2059/60 burried the lake and also swept away above 150 HHs nearby

#### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : NA. <u>Zooplankton</u> : NA <u>Core Area</u> : <i>Chara sp</i> (HT: Sm), <i>Tetrafolium sp</i> (HT: Ff), <i>Graminae sps</i> (LN: Lahare banso, HT: Herb, LU: Grass); <i>Finbristylis dichotome</i> (LN: Paani Mothe, HT: Herb, LU: Grass).
Major plants in basin	<i>Dalbergia sissoo</i> (LN: Sissau, HT: Tr, LU: Tm, Ful); <i>Trewianudiflora</i> (LN: Vellar, HT: Tr, LU: Fd); <i>Psidium guajava</i> (LN: Amba, HT: Tr, LU: Fr).
Fish	<i>Cyprinus carpio</i> (LN: Common carp; N/C: 1; LU: Meat); <i>Labeo cacruleus</i> (LN: Rhou; N/C: 2; LU: Meat); <i>Cirrhinus mrigala</i> (LN: Naini carp; N/C: 1; LU: Meat); <i>Hypophthalmic molitrix</i>



	(LN: Silver carp; N/C: 1; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; N/C: 2; LU: Meat). All species introduce.
Herpetofauna	Crocodiles; Snakes; <i>Rana tigrina</i> (Frog, ON: many).
Birds	<i>Athene brama</i> (LN: Dangre, ON: 2); <i>Strepto peliadeocto</i> (Dove, ON: 2, LU: Meat); <i>Casmerodius albus</i> (LN: Crane, ON: 1); <i>Corvus Splendens</i> (LN: Crow, ON: 3); <i>Dendrocygna bicolor</i> (LN: Pani hans); Migratory Siberian Birds.
Invertebrates	<i>Bellamyia bengalensis</i> (LN: Ghongi, LU: Food); <i>Peritima posthuma</i> (Earthworm); Different species of Snails, leech, Butterflies and Dragonflies.
Invasive alien species	<u>Plants</u> : <i>Mimosa pudica</i> (LN: Lajjawati, CO: 10%); <i>Parthenium hysterophorous</i> (LN: Kanike jhar; CO: 20%); <i>Euphorbia hirta</i> (LN: Dudhe jhar, CO: 10%). <u>Animals</u> : None
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None.
Abundance of plants	<u>Core Area</u> : <i>Chara sp</i> (50%); Tetrafolium (20%); Lahare banso (15%); <i>Finbristylis dichotoma</i> (5%)  <u>Basin Area</u> : <i>Dalbergia sisso o</i> (10%); <i>Leucaena leucicephal a</i> (2%); <i>Musa Sps</i> (20%); <i>Trewianudiflora</i> (20%); <i>Bombax ceiba</i> (2%); <i>Memoso pudica</i> (5%); <i>Parthenium hysterophorous</i> (2%); <i>Imperata cylindrical</i> (25%); <i>Saccharum spontaneum</i> (20%)

### E. Socio-Economy at Basin/Peripheri

Nearby settlement	Ghailaghari; 0 km from lake; Main trail: Bharatpur-Madi road.
Land use	Grass land (5%); Agriculture (30%); Settlement (68%); Wetlands (2%);
Demography	HHs: 80; <i>Brahmin/Chettri</i> (10%); <i>Janajati</i> (Bote, Darai, Maghi, Tharus; 50%); <i>Dalit</i> (35%); <i>Others</i> (5%); Major Religion: Hindu; Major Dialect: Nepali
Occupation	Agriculture (45%); Employment (15%); Trade/Business (25%); Remittance (15%)
Jurisdiction/ownership	State
Wetlands dependent community	None
Traditional production system	None
Traditional water use practices	None
Cultural record	The agricultural product is offered at the foot of tree in lake after harvest on the belief that Lord Shiva lives there.
Genesis/origin of lake	Ghaila- The Shape of pot made up of mud (Tharu)

### F. Ecosystem Goods/Services

Provisional services	Water for livestock; fishery.
Cultural services	None

### G. Restoration/Management

Structural management	None
Non-structural management	None
Conservation plan	None
Monitoring plan	None

**H. Tourism information**

No visitors especially focused to lake but has higher tourism potentiality for the visitors of CNP

**I. Lake condition**

Degrading

## 4. Khageri Dam

Code: P3-D2-004

Toposheet no: 2784 07C

Date of inventory: May 20, 2013

Compiler's name: Shanti Paudel/

Manju Gautam



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 27°37'58"N; <u>Lon.</u> : 84°29'21" E; <u>Alt.</u> : 195m.
Geographical position	Terai (Dun Valley)
Administrative feature	CDR; Chitwan district; Ratnanagar Municipality; 8 wards; Tikauli. (Current: Ratnanagar Municipality; Ward no. 9)
Boundary	<u>Core Area</u> : Grassland east; Inlet in west; Outlet in south; Grassland in north.
Management Responsibility	Community (Khageri Irrigation User Group)
Wetlands type	Man-made; Water storage area (Dam for Irrigation Canal).

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 32°C (Summer); <u>Avg. Min.</u> : 10°C (Winter). <u>Avg. Max: Rainfall.</u> : 150cm (Summer); <u>Avg. Min.</u> : Dry Winter <i>Source: DDC Profile of Chitwan, 2068</i>
Physical feature	
Area	<u>Core Area</u> : 1.5 ha; Avg. Length: 600 m; Avg. Width: 150 m; Avg. Depth: 2.0 m; Max-Min Surface Water Level: 0– 4.5 m; <u>Basin Area</u> : 262 ha.

### C. Hydrological feature

Water Volume	Peak Period: 30,000 m <sup>3</sup> ; Dry period: 0,000 m <sup>3</sup> ; Inlet: None; Outlet: <i>kulo</i> .
Water quality	<u>Physicochemical parameter</u> : Temp.: 34 °C; pH: Slightly acidic.
Soil feature	Dark colour, Sandy clay texture
Shocks/vulnerability	None

### D. Biological feature

Major aquatic plants	Phytoplankton: Eichhornia crassipes (LN: Jal kumbhi, HT: Ff, LU: Ornamental); Hydrophyllum Sps (LN: Hydrophyllum, HT: Ff); Pistia stratiotes (LN: Pistia, HT: Ff); Chara Sps (HT: Sm); Spirogyra sps; Zooplankton: NA
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	Core Area: Eichhornia crassipes (LN: Jal kumbhi, HT: Ff, LU: Ornamental); Hydrophyllum Sps (LN: Hydrophyllum, HT: Ff); Pistia stratiotes (LN: Pistia, HT: Ff), <i>Ipomoea carnea</i> (LN: Besharam, HT: Em); Chara Sps (HT: Sm)
Major plants in basin	Dendrocalamus sps (LN: Bans; HT: Tr; LU: Ful, Fd); Bombex Ceiba (LN: Simal; HT: Tr); Dalbergia sissoo (LN: Sissau; HT: Tree; LU: Tm, Ful).
Fish	<i>Monopterus cuchia</i> (LN: Bam; N/C: 2; LU: Meat); <i>Channa striata</i> (LN: Sauri; N/C:3; LU: Meat); <i>Puntius chola</i> (LN: Pothi; N/C: 3; LU: Meat); Teauri, Jhinge. (All are Resident)
Herpetofauna	Rana tigrina (Frog, ON:8); Xenochrophis piscator (Water snake, ON:1); Other Snakes; Lizards.
Birds	Athene brama (LN: Dangre; ON: 2); Strepto peliadecaocto (Dove; ON: 2; LU: Meat); <i>Casmerodius albus</i> (LN: Crane, ON:5); Koo-koo.
Mammals	None
Invasive alien species	Plants: <i>Ipomoea carnea</i> (LN: Besharam, CO 30%); <i>Chromolaena odoratum</i> (LN: Seto banmara; CO: 30%); <i>Parthenium hysterophorous</i> (LN: Kanike jhar; CO: 40%); <i>Cassia tora</i> (LN: Chakmake; CO: 25%); <i>Eichhornia crassipes</i> (LN: Jal kumbhi, CO: 35%); <i>Pistia</i> (5%) Animals: NA
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: <i>Eichhornia crassipes</i> (HT: Ff; CO:40%); <i>Ipomoea carnea</i> (HT: Em; Co: 25%) <i>Imperata cylindrical</i> (HT: Em, CO: 25%), <i>Pistia</i> (HT: Ff, CO: 10%).  Basin Area: Bamboo (20%); <i>Bombex Ceiba</i> (10%); Sissoo (15%); <i>Chromolaena odoratum</i> (10%); <i>Cassia tora</i> (20%); <i>Parthenium hysterophorous</i> (25%)

## E. Socio-Economy at Basin

Nearby settlement	Krishna mandir Chwok; 500m from Dam; Main trail: Mahendra highway Road.
Land use	Forest land (10%); Grass land (20%); Agriculture (60%); Settlement (5%); Wetlands (5%); Others.
Demography	HHs: 40; Brahmin/Chettri (60%); Janajati (30%); Dalit (100%); Major Religion: Hindu; Major Dialect: Nepali
Occupation	Agriculture (65%); Employment (20%); Trade/Business (25%); Remittance (25%)
Jurisdiction/ownership	State
Wetlands dependent community	None
Traditional production system	Local Irrigation (Khageri nahar is the main canal and the branched canals are spread all over the western Chitwan like Gitanagar, Rampur etc)
Genesis/origin of lake	Dam constructed for the irrigation canal.

## F. Ecosystem Goods/Services

Provisional services	Irrigating water supply (All over western Chitwan); Fish supply.
Cultural services	None

## **G. Restoration/Management**

Structural management	Built up dikes/Dams
Non-structural management	Formal Rule for Khageri canal water user group; pay annual tax for the use of water for irrigation.
Conservation plan	Available
Monitoring plan	None

## **H. Tourism information**

No visitors; not developed as tourist area, no potentiality.

## **I. Lake condition**

Degrading (Almost Covered by Invasive Alien species especially Water Hyacinth, need the proper management)

## 5. RaniPokhari

Code: P3-D2-005

Toposheet no: 2784 06A

Date of inventory: May 24, 2013

Compiler's name: Shanti Paudel/

Manju Gautam



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°37'58"N; Lon.: 84°20'00" E; Alt.: 180m.

Geographical position

Terai (Dun Valley)

Administrative feature

CDR; Chitwan district; Sharadanagar VDC; 7/9 wards; Kirangunj

(Current: Bharatpur Municipality; Ward no. 12)

Boundary

Core Area: Temple in east; Outlet in west; Minigate in south; Gateway in north.

Management Responsibility

Community (Rani Pokhari Conservation and Development Committee)

Wetlands type

Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 32°C (Summer); Avg. Min.: 10°C (Winter).  
Avg. Max: Rainfall.: 150cm (Summer); Avg. Min.: Dry Winter  
*Source: DDC Profile of Chitwan, 2068.*

Physical feature

Area

Core Area: 2.5 ha; Avg. Diameter: 430m (Circular Shape); Avg. Depth: 2 m; Max-Min Surface Water Level: 1.0 – 3.0 m.

### C. Hydrological feature

Water Volume

Peak Period: 30,000 m<sup>3</sup>; Dry period: 5,000 m<sup>3</sup>; Inlet: None; Outlet: kulo.

Water quality

Physicochemical parameter: Temp.: 40 °C; pH: Slightly acidic.

Soil feature

White colour, Sandy texture

Shocks/vulnerability

None

### D. Biological feature

Major aquatic plants

Phytoplankton: Spirogyra sps; Zooplankton: NA

Core Area: Imperata cylindrica (LN: Siru/Em, HT: Herb LU: Grass); Saccharum spontaneum (LN: Kans; HT: Hb; LU: Grass).

Major plants in Peripheri	<i>Melia azedarach</i> (LN: Bakaino; HT: Tr; LU: Fd); <i>Dendrocalamus sps</i> (LN: Bans; HT: Tr; LU: Ful, Fd); <i>Bombax ceiba</i> (LN: Simal; HT: Tr); <i>Albizia lebbek</i> (LN: Kalo Siris; HT: Tr; LU: Ful); <i>Psidium guajava</i> (LN: Amba, HT: Tr, LU: Fr); <i>Musa sps</i> (LN: Kera, HT: Tree, LU: Fr).
Fish	<i>Cyprinus carpio</i> (LN: Common carp; LU: Meat); <i>Labeo caeruleus</i> (LN: Rahu; LU: Meat); <i>Cirrhinus mrigala</i> (LN: Naini carp; LU: Meat); <i>Hypophthalmichthys nobilis</i> (LN: Bighead Carp; LU: Meat); <i>Hypophthalmic molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); All are introduced. <i>Catla catla</i> (LN: Bhakur; LU: Meat; Native) (About 150-200kg fish at one catch, thus each type has around 10-20 number per catch)
Herpetofauna	<i>Crocodilus palutris</i> (LN: Mugger gohi); <i>Indotestudo elongata</i> (LN: Turtle); <i>Rana tigrina</i> (Frog, ON: many); Snakes.
Birds	<i>Athene brama</i> (LN: Dangre; ON: 5); <i>Strepto peliadecaocto</i> (Dhukur; LU: Meat); <i>Casmerodius albus</i> (LN: Bakulla Crane, ON: 3), <i>Corvus splendens</i> (LN: Kaag, ON: 1).
Mammals	None
Invasive alien species	<u>Plants:</u> <i>Lantana camara</i> (LN: Banmasa; CO:5%); <i>Chromolaena odoratum</i> (LN: Seto banmara; CO:5%); <i>Parthenium hysterophorous</i> (LN: Kanike jhar; CO:2%); <u>Animals:</u> NA
Endemic plant/animal	<u>Plant:</u> None. <u>Animal:</u> None.
Abundance of plants	<u>Core Area:</u> <i>Imperata cylindrica</i> (5%); <i>Saccharum spontaneum</i> (10%). Basin Area: <i>Melia azedarach</i> (Bakaino, CO:30%); <i>Dendrocalamus Sps</i> (Bans,10%); <i>Bombax ceiba</i> (Simal, 1%); <i>Psidium guajava</i> (Amba, 2%); <i>Musa sps</i> (Kera, 5%)

## E. Socio-Economy at Basin

Nearby settlement	Kirangunj; 50m from lake; Main trail: Bharatpur-Meghauli Road.
Land use	Settlement (45%); Agricultural (50%); Wetlands (5%).
Demography	Population:500; HHs: 100; <i>Brahmin/Chettri</i> (25%); <i>Janajati</i> (30%); <i>Dalit</i> (30%); Major Religion: Hindu; Major Dialect: Nepali)
Education	Primary level (75%); School level certificate (+2) (25%); University level (10%)
Occupation	Agriculture (75%); Employment (25%); Trade/Business (10%); Remittance (25%)
Jurisdiction/ownership	State
Wetlands dependent community	None
Genesis/origin of lake	Rana rulers while came for hunting in Charkose jhadi, dug up the lake in the memory of queen.

## F. Ecosystem Goods/Services

Provisional services	Irrigating water supply; fishery.
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Cultural services None

**G. Restoration/Management**

Structural management Cemented wall; Afforestation

Non-structural management Formal Rule (No resource can be used without permission of committee); Economic incentives of 4 lakhs from V.D.C.

Conservation plan None.

Monitoring plan None

**H. Tourism information**

No visitors; not developed as tourist area yet but has higher potentiality.

**I. Lake condition**

Degrading.



## 6. Rhino Taal

Code: P3-D2-006

Toposheet no: 2784 06B

Date of inventory: April 23, 2013

Compiler's name: Shanti Paudel/

Manju Gautam

### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°39'56"N; Lon.: 84°28'24" E; Alt.: 210m.

Geographical position

Terai (Dun Valley)

Administrative feature

CDR; Chitwan district; Bharatpur Municipality; 12 wards; Rambell Community Forest.

(Current: Bharatpur Municipality; Ward no. 12)

Boundary

Core Area: Outlet in east; Inlet in west; Foot trail in south; Forest CF in north.

Management Responsibility

Community Forest Users Groups (12)

Wetlands type

Freshwater/ natural; Riverine; Perennial.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 32°C (Summer); Avg. Min.: 10°C (Winter).  
Avg. Max: Rainfall.: 150cm (Summer); Avg. Min.: Dry Winter  
*Source: DDC Profile of Chitwan, 2068.*

Physical feature

Area

Core Area: 3.0 ha; Avg. Length: 300 m; Avg. Width: 100 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 0.5 – 2.0 m.

### C. Hydrological feature

Water Volume

Peak Period: 60, 000 m<sup>3</sup>; Dry period: 15,000 m<sup>3</sup>; Inlet: Lame Ghol; Outlet: Khageri nahar (Discharge Rate: Dry during field visit).

Water quality

Physicochemical parameter: Temp.: 37 0C; pH: Slightly acidic.

Soil feature

Dark color; silty clay texture

Shocks/vulnerability

None

### D. Biological feature

Major aquatic plants

Phytoplankton: NA; Zooplankton: NA

Core Area: Hydrophyllum sp (HT: Ff), Pistia stratiotes (HT: Ff).

Major plants in basin

*Shorea robusta* (LN: Saal; HT: Tr; LU: Tm, Ful, plate of leaf); *Syzygium operculatus* (LN: Kyamuno; HT: Tr; LU: Tm, Ful, Ed); *Bombex Ceiba* (LN: Simal; HT: Tr); *Trewianudiflora* (LN: Vellar, HT: Tr, LU: Fd).



Fish	<i>Heteropneustes fossilis</i> (LN: Singi; N/C: 1; LU: Meat); <i>Channa orientalis</i> (LN: Bhoti; N/C: 3; LU: Meat); <i>Monopterusuchia</i> (LN: Bam; N/C: 1; LU: Meat); Sidra. All native species.
Herpetofauna	<i>Crocodylus palustris</i> (LN: Mugger gohi); <i>Indotestudo elongata</i> (Turtle); <i>Rana tigrina</i> (Frog, ON: many); <i>Xenochrophis piscator</i> (Water snake; ON: 1)
Invertebrates	<i>Pheritima posthuma</i> (Earthworm, ON: many), LU: fishing/balchhi); <i>Bellamyabengalensis</i> (LN: Ghongi, ON: many, LU: Meat); Different species of Snails, Leeches, Butterflies and Dragonflies
Birds	<i>Pichnonothus sp.</i> (LN: Jureli, ON: 1, Migratory); <i>Streptopeliadecaocto</i> (Dove, ON: 2, LU: Meat); <i>Casmerodius albus</i> (Crane, ON: 1).
Mammals	<i>Rhinoceros unicornis</i> (Rhino); <i>Panthera tigris</i> (Tiger); <i>Callosciurus</i> sps (Squarrel); Deer sps.
Invasive alien species	<u>Plants</u> : <i>Ipomoea carnea</i> (LN: Besharam; CO:15%); <i>Lantana camara</i> (LN: Banmasa; CO:5%); <i>Chromolaena odoratum</i> (LN: Seto banmara; CO:5%); <i>Parthenium hysterophorous</i> (LN: Kanike jhar; CO:2%); <i>Alternanthera philoxeroides</i> (LN: Jal jimbu; CO:10%); <i>Pistia stratiotes</i> (LN: Kumbhika; CO:1%) <u>Animals</u> : NA
Endemic plant/animal	<u>Plant</u> : None. <u>Animal</u> : None.
Abundance of plants	<u>Core Area</u> : <i>Ipomoea carnea</i> (15%); <i>Alternanthera philoxeroides</i> (10%); <i>Pistia stratiotes</i> (1%); <i>Shorea robusta</i> (5%); Graminae Sps (5%).  <u>Basin Area</u> : <i>Shorea robusta</i> (LN: Saal, CO:75%); <i>Lantana camara</i> (LN: Banmasa; CO:1%); <i>Chromolaena odoratum</i> (LN: Seto banmara; CO:1%); <i>Parthenium hysterophorous</i> (LN: Kanike jhar; CO:2%); <i>Syzygium operculatus</i> (LN: Kyamuno, CO:1%); <i>Bombax ceiba</i> (LN: Simal, CO:5%); <i>Trewianudiflora</i> (LN: Vellar, CO:20%)

## E. Socio-Economy at Basin

Nearby settlement	Naurange; 2 km from lake; Main trail: Mahendra Highway.
Land use	Forest (95%); Wetlands (5%)
Jurisdiction/ownership	State
Wetlands dependent community	None.
Genesis/origin of lake	Formed by the damming of Khageri khola during the construction of Khageri nahar.  (Got Named as Rhino lake for the frequent visits of rhino)

## **F. Ecosystem Goods/Services**

Provisional services Water for wildlives; Irrigating water supply fishery; timber; fuelwood; fodder/forage.

Cultural services Scenic service (Film shooting); Recreational (picnic spot)

## **G. Restoration/Management**

Structural management Dam

Non-structural management No

Conservation plan None.

Monitoring plan None

## **H. Tourism information**

>1000 annual visitors for picnic/shooting; no locally operated hotels; no transportation facility. Needs improvement in infrastructure and human resource.

## **I. Lake condition**

Degrading.

## Annex-26: Inventory of lakes in Dolakha district

### 1. Shiva Pokhari

Code: P3-D3-001

Toposheet no: ....

Date of inventory: June 5, 2013

Compiler's name: Dinesh Acharya

Suresh Bhandari



#### A. General Feature

Conservation status	None.
Geographical coordination	Lat. 27°42'37"N; <u>Lon.</u> : 85°56'47" E; <u>Alt.</u> : 2600m amsl.
Geographical position	Midland and flat.
Administrative feature	CDR; Dolakha district; Lankuri danda VDC; 8 wards; Kharidhunga. (Current: Bhimeshwar Municipality; Ward no. 9)
Boundary	<u>Core Area</u> : Forest in east; Forest in west; Forest in south; Agriculture land in north. <u>Basin Area</u> : Forest in east; Forest in west; Magnesite deposit in south; Settlement in north.
Management Responsibility	District Soil conservation office Dolakha.
Wetlands type	Freshwater/ man-made; Aquaculture/ Water storage area; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 18°C (Jun/Jul). <u>Avg. Min.</u> : 8°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 2 ha; Avg. Length: 200 m. Width: 100 m; Avg. Depth: 9 m; Max-Min Surface Water Level: 9 m; <u>Basin Area</u> : 15 ha.

#### C. Hydrological feature

Water Volume	Peak Period: 18 000 m <sup>3</sup> ; Dry period: 18 000 m <sup>3</sup> .
Water quality	<u>Physicochemical parameter</u> : Temp.: 17 °C; pH: Neutral.
Soil feature	Grey color, sandy silt loam texture.
Shocks/vulnerability	None.

#### D. Biological feature

Major aquatic plants	Phytoplankton: NA. Zooplankton: NA Core Area: Hydrilla (HT: Sm, LU: NA).
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Major plants in basin	<i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tr); <i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Tm, Ful).
Fish	... (LN: Buduna; N/C: 15; LU: Ornamental).
Herpetofauna	<i>Rana tigrina</i> (Frog, ON: 5).
Birds	<i>Pichnonothus</i> sp (Bhangera, ON: 8); ... (Sarute, ON: 7); ... (Siberian Rajhans, ON: 12pairs last year (2012)
Mammals	None.
Invasive alien species	None.
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: <i>Hydrilla</i> (20%). Basin Area: <i>Alnus nepalensis</i> (40%); <i>Schima wallichii</i> (60%).

### **E. Socio-Economy at Basin**

Nearby settlement	Kharidhunga Bazar; 10m from lake; Main trail: Dolakha-Jiri road.
Land use	Forest land (5%); Grass land (10%); Agriculture (60%); Settlement (20%); Wetlands (5%).
Demography	Population: 457; Male: 248; Female: 209; HHs: 84; Janajati (100%); Major Religion: Hindu; Major Dialect: Newari/Nepali).
Education	Primary level (100%); School level certificate (+2) (50%); University level (25%).
Occupation	Agriculture (90%); Employment 105%); Trade/Business (5%); Remittance (10%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	180 no.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	NA

### **F. Ecosystem Goods/Services**

Provisional services	Boidiversity.
Cultural services	Local fair in Teej

### **G. Restoration/Management**

Structural management	Dam, afforestation.
Non-structural management	Informal restriction (grazing control).
Conservation plan	Available.
Monitoring plan	Available (DDC, CDO).

### **H. Tourism information**

>5000 annual visitors; 3 local hotels. Needs improvement in infrastructure, human resource and advertisement.

### **I. Lake condition**

Good.

## 2. Simpani Pokhari

Code: P3-D3-002

Topo sheet no: 2786-05A

Date of inventory: Jun 6, 2013

Compiler's name: Dinesh Acharya,

Suresh Bhandari



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°40'19.25"N; Lon.: 86°02'50.79" E; Alt.: 2050amsl.

Geographical position

Midland and flat.

Administrative feature

CDR; Dolakha district; Bhimnagar Municipality; ward 10; Simpani.

(Current: Bhimeshwar Municipality; Ward no. 3)

Boundary

Core Area: settlement in east; Settlement in west: Agriculture land in south; grass land in north.

Basin Area: settlement in east; settlement in west; Mawarak settlement in south; Forest in north.

Management Responsibility

Gairashwara Social Service Community/ Municipality.

Wetlands type

Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 18°C (Jun/Jul). Avg. Min.: 8°C (Dec).

Physical feature

Area

Core Area: 0.5 ha; Avg. Length: 100 m. Width: 50 m; Avg. Depth: 2.5 m; Max-Min Surface Water Level: 0.5 – 2.5 m; Basin Area: 15 ha.

### C. Hydrological feature

Water Volume

Peak Period: 12 500 m<sup>3</sup>; Dry period: 2500 m<sup>3</sup>.

Water quality

Physicochemical parameter: Temp.: 20°C; pH: 6.9;

Soil feature

Grey color, loamy sand texture.

Shocks/vulnerability

None.

### D. Biological feature

Major aquatic plants

Phytoplankton: NA. Zooplankton: NA

Core Area: None.

Major plants in basin

Alnus nepalensis (LN: Utish; HT: Tr; LU: Tr); Schima wallichii (LN: Chilaune; HT: Tr; LU: Tm, Ful) ... (LN: Dhudhilo; HT: Sh; LU: Tm, Fd); prunus spp (LN: Paiyeu; HT: Tr; LU: Tm, resin); Pinus sps. (LN: Sallo; HT: Tr; LU: resin).

Fish	None.
Herpetofauna	None.
Birds	..... (LN: Bhangera; ON: 5; local); ... (Saraute, ON: 7);
Mammals	None.
Invasive alien species	Plants: Eupatorium sp (LN: Banmara, CO: 5%);
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: Pire (40%), patero (10%). Basin Area: Alnus nepalensis (30%); Schima wallichii (20%); Prunus spp (10%) <i>Pinus spp</i> (20%). Dhudhilo (15%)

### **E. Socio-Economy at Basin**

Nearby settlement	Charikot Bazar; 700 m from lake; Main trail. Araniko Highway.
Land use	Forest land (25%); Grass land (5%); Agriculture (45%); Settlement (20%); Wetlands (5%).
Demography	Population: 435; Male: 235; Female: 200; HHs: 80; Brahmin/Chettri (10%); Janajati (90%); Major Religion: Hindu; Major Dialect: Nepali).
Education	Primary level (100%); School level certificate (+2) (80%); University level (10%).
Occupation	Agriculture (80%); Employment (10%); Trade/Business (10%); Remittance (5%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	270 no.
Traditional production system	None.
Traditional water use practices	Community pond (1).
Cultural record	NA
Genesis/origin of lake	NA

### **F. Ecosystem Goods/Services**

Provisional services	Water for fire control, agricultural purpose
Cultural services	None.

### **G. Restoration/Management**

Structural management	Dam.
Non-structural management	Informal restriction.
Conservation plan	Available. (done by DDC Dolakha)
Monitoring plan	None.

### **H. Tourism information**

None.

### **I. Lake condition**

Degrading. (Cemented)

### 3. Thuli Pokhari

Code: P3-D3-003

Topo sheet no: 2786-05D

Date of inventory: June 8, 2013

Compiler's name: Dinesh Acharya,

Suresh Bhandari



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat. 27°38'2"N; Lon.: 86°08'36" E Alt.: 1680 amsl.

Geographical position

Mahabharat lekh and flat.

Administrative feature

CDR; Dolakha district; Mirge VDC; ward no 2; Mirge.

(Current: Baiteshwar Rural Municipality; Ward no. 4)

Boundary

Core Area: Agriculture land in east; Agriculture land in west; Agriculture land in south; Wall in north.

Basin Area: Agriculture land east; Agriculture land in west; Settlement in south; Agriculture land in north.

Management Responsibility

Government

Wetlands type

Freshwater/ natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 18°C (Jun/Jul). Avg. Min.: 8°C (Dec).

Physical feature

Area

Core Area: 0.5 ha; Avg. Length: 100 m; Avg. Width: 50 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 0.5 – 1.5 m; Basin Area: 10 ha.

#### C. Hydrological feature

Water Volume

Peak Period: 75 000 m<sup>3</sup>; Dry period: 2500 m<sup>3</sup>.

Water quality

Physicochemical parameter: Temp.: 19 °C; pH: 6.9;

Soil feature

Grey color, sandy loam texture.

Shocks/vulnerability

None.

#### D. Biological feature

Major aquatic plants

Phytoplankton: not seen by naked eye  
Zooplankton: NA

Core Area: NA

Major plants in basin

Alnus nepalensis (LN: Utish; HT: Tr; LU: Tr); Schima wallichii (LN: Chilaune; HT: Tr; LU: Tm, Ful); Prunus spp (LN: Paiyeu; HT: Sh; LU: Tm, Fd); (LN: Bamboo; HT: Tr; LU: Ful).

Fish

None.

Herpetofauna

Rana tigrina (Bhyagutta, ON: 5); ... (Chheparo, ON: 1); .....  
(Snake ON: 1).



Birds	Pichnonothus sp (LN: Bhangera; ON: 5; Domestic) ...., (Kaag ON: 2); ... (Sararaute, ON: 3).
Mammals	None.
Invasive alien species	Plants: Eupatorium sp (LN: Banmara, CO: 9%). Animals; None.
Endemic plant/animal	Plant: None. Animal: None.
Abundance of plants	Core Area: None. Basin Area: Alnus nepalensis (20%); Schima wallichii (15%); Prunus spp (5%); Bamboo (60%).

### **E. Socio-Economy at Basin**

Nearby settlement	Tamakoshi Bazar; 11 km from lake; Main trail: Kathmandu-Manthali road.
Land use	Forest land (20%); Agriculture (60%); Settlement (15%); Wetlands (5%).
Demography	Population: 4200; Male: 2500; Female: 1700; HHs: 125; Janajati (99%); Others (1%); Major Religion: Hindu; Major Dialect: Nepali).
Education	Primary level (90%); School level certificate (+2) (60%); University level (2%).
Occupation	Agriculture (90%); Employment (5%); Trade/Business (10%); Remittance (15%); Wages/labor (15%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	260 no.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	No specific record.
Genesis/origin of lake	NA

### **F. Ecosystem Goods/Services**

Provisional services	None.
Cultural services	Local fair during Kartik Purnima.

### **G. Restoration/Management**

Structural management	Dam.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### **H. Tourism information**

### **I. Lake condition**

	None
	Degrading.

## Annex-27: Inventory of lakes in Makwanpur district

### 1. Kulekhani Reservoir (Indra Sarobar)

Code: P3-D6-001

Toposheet no: 2785-05D

Date of inventory: June 5, 2013

Compiler's name: M. Khadka



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°35'22"N; <u>Lon.</u> : 85°09'19" E; <u>Alt.</u> : 1500 amsl.
Geographical position	Midhill.
Administrative feature	CDR; Makawanpur district; Markhu VDC. (Current: Indrasarowar Municipality; Ward no. 1)
Boundary	<u>Basin Area</u> : Dama, Palung, Tistung, Deurali, Bajrabarahi, Markhu, Kulekhani and Fakhel
Management Responsibility	Kulakhani Hydroelectric project and community
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature Avg. Max: Temp.: 22°C (Jun/Jul). Avg. Min.: 4°C (Dec).

Physical feature

Area Core Area: 220 ha; Avg. Length: 4,217 m; Avg. Width: 312 m; Basin Area: 15600 ha.

#### C. Hydrological feature

Water Volume	4416000 m <sup>3</sup>
Water quality	NA
Soil feature	Grey and dark color, sandy silt loam texture.
Shocks/vulnerability	None.

#### D. Biological feature

Major aquatic plants	<u>Phytoplankton</u> : Spirogyra sp., Azolla sps. <u>Zooplankton</u> : NA
Major plants in basin	Shorea robusta (LN: Sal; HT: Tr; LU: Tm, Ful) <i>Castonopsis indica</i> (LN: Katus; HT: Tr; LU: Tm, Ful); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tr); <i>Ficus bengelensis</i> (LN: Bar; HT: Tr; LU: Tm, resin);
Fish	.
Herpetofauna	Golden monitor lizard; <i>Varanus bangalensis</i> ; <i>Trimeresurus gramineus</i> ; <i>Euphlyctis cyanophlyctis</i> ; <i>Bufo himalayanus</i> .

Birds	White-crested Laughing Thrush, <i>Pichnonothus sp.</i> (LN: Jureli; ON: 7; Migratory); White-breasted Waterhen; Long-tailed Shrike; Blue-Throated Barbet; Spotted Dove, Pigmy Wren Bubbler; Crowned Pigmy Woodpecker.
Mammals	Hare, Leopard, Porcupine, Squirrel, Bat, Ghoral, Deer.
Invasive alien species	NA
Endemic plant/animal	NA
Abundance of plants	NA
Biomass in core area	<i>Nymphaea sp</i> (350 g/m <sup>2</sup> ), <i>Eichhornea sp</i> (300 g/m <sup>2</sup> ).

### **E. Socio-Economy at Basin**

Nearby settlement	Markhu, Dam market.
Land use	Forest land (44%); Shrub land (9%); Grass land (2%); Agriculture (42%); Settlement (2%); Others (1%).
Demography	46,000 people, including 8,600 house holds
Education	NA.
Occupation	NA.
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	NA.
Traditional production system	None.
Traditional water use practices	Cage culture.
Cultural record	None.
Genesis/origin of lake	NA

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock; fishery; timber; fuelwood; fodder/forage; wild fruit; bamboo for handicraft.
Cultural services	None.

### **G. Restoration/Management**

Structural management	Dam, afforestation.
Non-structural management	Informal restriction.
Conservation plan	Available.
Monitoring plan	None.

### **H. Tourism information**

>10,000 annual visitors; locally operated hotel-7. Needs improvement in infrastructure and human resource.

### **I. Lake condition**

Managed.

## Annex-28: Inventory of lakes in Nuwakot district

### 1. Sajar Kunda

Code: P3-D7-001

Toposheet no: ....

Date of inventory: June 10, 2013

Compiler's name: M. Khadka



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°28'40.21"N; Lon.: 86°02'28.96" E; Alt.: 1802 amsl.

Geographical position

Midhill region.

Administrative feature

CDR; Nuwakotdistrict; Shikharbeshi VDC; 8 ward.

(Currently: Langtang National Park)

Boundary

Bounded by forest.

Basin Area: All forest area under the Langtang National Park.

Management Responsibility

Langtang National Park and Local Community.

Wetlands type

Freshwater/ natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 20°C (Jun/Jul). Avg. Min.: 1°C (Dec).

Physical feature

Area

Core Area: 0.6 ha; Avg. Length: 118 m; Avg. Width: 71 m;

Basin Area: NA.

#### C. Hydrological feature

Water Volume

None, there is no distinct inlet but drain almost of the basin area.

Water quality

None.

Soil feature

Dark black, silt loam texture.

Shocks/vulnerability

None.

#### D. Biological feature

Major aquatic plants

None.

Major plants in basin

*Alnus nepalensis* (LN: Utish; HT: Tr; LU: Tr); *Castanopsis indica* (LN: Katus; HT: Tr; LU: Tm, Ful); *Myrica esculenta* (LN: Kafal; HT: Tr; LU: Sh); *Pinus roxburghii* (LN: Sallo; HT: Tr; LU: resin).

Herpetofauna

Golden monitor lizard, *Rana tigrina*, Buffo etc.

Birds	Pichnonothus sp. (LN: Jureli; Migratory); White-crested Laughing Thrush; Long-tailed Shrike; Blue- Throated Barbet; Crowned Pigmy Woodpecker.
Mammals	Leopard, Hare, Porcupine, Jungle cat, Ghoral etc.
Invasive alien species	Plants: Eupatorium sp (LN: Banmara, CO: 20%).
Endemic plant/animal	None.
Abundance of plants	None.
Biomass in core area	

### **E. Socio-Economy at Basin**

Nearby settlement	Shikhar besi; 5 km from lake; Main trail: way to Gosaikunda.
Land use	Forest land (35%); Shrub land (25%); Grass land (25%); Wetlands (5%); Others (10%);
Demography	Population: 3534; Male: 1815; Female: 1719; HHs: 746.
Education	NA
Occupation	NA
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	NA
Traditional production system	Restricted area
Traditional water use practices	Religious
Cultural record	Religious pond this is on the way of Gosaikunda.
Genesis/origin of lake	NA

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock; timber; fuelwood; wild fruit.
Cultural services	This is on the way of GosaiKunda. There is only one shade for resting the visitors.

### **G. Restoration/Management**

Structural management	Drywall for the silt control.
Non-structural management	Restriction by NP.
Conservation plan	NA.
Monitoring plan	None.

### **H. Tourism information**

#### **I. Lake condition**

>1000 annual visitors following through this route.  
Degrading.

## Annex-29: Inventory of lakes in Ramechhap district

### 1. Pokhari Dada

Code: P3-D8-001

Toposheet no: 2786-09A

Date of inventory: June 25, 2013

Compiler's name: M. Khadka



#### A. General Feature

Conservaiton status

None

Geographical coordination

Lat.: 27°28'40.21"N; Lon.: 86°02'28.96" E; Alt.: 1802 amsl.

Geographical position

Midhill Region and top of the hill.

Administrative feature

CDR; Ramechhap district; Phulashi VDC; 7 ward; Pokharibazar.

(Currently: Manthali Municipality; Ward no. 14)

Boundary

Core Area: Pokharibazar west; bare land in east, north and south.

Basin Area: Not distinct.

Management Responsibility

Pokharibazar

Wetlands type

Freshwater/ natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 180C (Jun/Jul). Avg. Min.: - 20C (Dec).

Physical feature

Area

Core Area: 0.1 ha; Avg. Length: 38 m; Avg. Width: 23 m

#### C. Hydrological feature

Water Volume

NA

Water quality

NA

Soil feature

Grey and dark black color, Sandy loam texture.

#### D. Biological feature

Major aquatic plants

NA

Major plants in basin

*Pinus roxburghii* (LN: Sallo; HT: Tr; LU: resin); *Alnus nepalensis* (LN: Utish; HT: Tr; LU: Tr); *Castonopsis indica* (LN: Katus; HT: Tr; LU: Tm, Ful); *Erythrania strict* (LN: Ratogedi; HT: Sh; LU: Tm, Fd); *Euodia fraxinifolia* (HT: Tr); *Ficus bengelensis* (LN: Bar; HT: Tr; LU: Tm, resin); *Lagerstroemia parvilora* (LN: Botdhairo; HT: Tr; LU: Tm)

Fish

NA.

Herpetofauna

Golden monitor lizard, *Trimeresurus gramineus*, *Bufo himalayanus*.

Birds	White-crested Laughing Thrush, Pichnonothus sp. (LN: Jureli; ON: 7; Migratory); White-breasted Waterhen, Long-tailed Shrike, Crowned Pigmy Woodpecker.
Mammals	Hare, Leopard, Porcupine, Squirrel, Deer
Invasive alien species	NA
Endemic plant/animal	None
Abundance of plants	The core area of the pond is encroached by humans so there are no reported plants at or near by the pond.
Biomass in core area	NA

### **E. Socio-Economy at Basin**

Nearby settlement	Pokharibazar.
Land use	This pokhari is at top of the hill so the land use pattern of this area settlement (55 %) and rest are bare land.
Demography	Population of the VDC: 5,733; Male: 2,594; Female: 3,139; HHs: 1,284.
Education	NA
Occupation	Agriculture (85%); Employment (5%); Trade/Business (5%); Remittance (5%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	None.
Traditional production system	None.
Traditional water use practices	Community pond (1).
Cultural record	None.
Genesis/origin of lake	NA

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock; fishery.
Cultural services	None.

### **G. Restoration/Management**

Structural management	Boundry.
Non-structural management	Informal restriction.
Conservation plan	None.
Monitoring plan	None.

### **H. Tourism information**

1000 local visitors annually.

### **I. Lake condition**

Degrading.

## Annex-30: Inventory of lakes in Sindhuli district

### 1. Kund

Code: P3-D9-001

Toposheet no: NA

Date of inventory: June 11, 2013

Compiler's name: Sujan Ghimire



#### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 27°10'30.84"N; <u>Lon.</u> : 85°36'46.43" E; <u>Alt.</u> : 230 masl.
Geographical position	Siwalik/Churiya zone
Administrative feature	CDR; Sindhuli district; Kyaneshowor Vdc; 2 ward; (Currently: Hariharpurgadhi Rural Municipality; Ward no. 7)
Boundary	<u>Core Area</u> : Trees in east; agriculture land in west; agriculture land in south; trees in north. <u>Basin Area</u> : hill in east; kyaneshowar river in west; agriculture land in south; hill in north.
Management Responsibility	None
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 32°C (May/Jun).
Physical feature	
Area	<u>Core Area</u> : 2 ha; Avg. Length: 200m; 2 m; Avg. Width: 150 m; Avg. Depth: 2 m; Max-Min Surface Water Level: No change; <u>Basin Area</u> : 10-12 ha

#### C. Hydrological feature

Water Volume	Peak Period: 60 000 m <sup>3</sup> ; Dry period: 0 m <sup>3</sup> ; Inlet: none; Discharge Rate: NA
Water quality	<u>Physicochemical parameter</u> : Temp.: 20 °C;
Soil feature	Sandy loam
Shocks/vulnerability	NA

#### D. Biological feature

Major aquatic plants	Phytoplankton: NA, Zooplankton: Available Core Area: Trapa (HT: floating, LU: NA); Hydrophullum (LN: kamal Jastai; HT: Floating, LU: NA)
Major plants in basin	Sorea robusta (LN: Sal; HT: Tr; LU: Tr)



Fish	... (LN: Kothre; N/C: 2; LU: Meat); ... (LN: Rahu; N/C: 2; LU: Meat); ... (LN: Naini; N/C: 2; LU: Meat); ... (LN: Siver; N/C: 5; LU: Meat). All species introduce.
Herpetofauna	Rana spp. (LN: Bhyaguto); Melanochelys spp. (LN: Kachuwa); Amphiesma spp. (LN: Panisap); Ptyas spp. (LN: Dhaman)
Birds	Corvus spp. (LN: Crow; ON: 4; Local); Dicrurus spp. (Chibe, ON: 2); ... Columbus spp. (Pigeon, ON: 3);
Mammals	NA
Invasive alien species	NA
Endemic plant/animal	NA
Abundance of plants	Core Area: NA
Area: <i>Sorea robusta</i> (90%); <i>others</i> (10%);	

### **E. Socio-Economy at Basin**

Nearby settlement	Danda Bazar; 3 km from lake; Main trail: Bhendetar-Rajarani road.
Land use	Forest land (25%); Grass land (2%); Agriculture (65%); Settlement (7%); Wetlands (1%);
Demography	Population: 1351; Male: 721; Female: 630; HHs: 237; Brahmin/Chettri (80%); Janajati (15%); Dalit (5%); Major Religion: Hindu; Major Dialect: Nepali).
Education	Primary level (85%); School level certificate (+2) (20%); University level (10%).
Occupation	Agriculture (50%); Employment (20%); Trade/Business (10%); Remittance (20%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	650
Traditional production system	None
Traditional water use practices	None
Cultural record	NA
Genesis/origin of lake	shifting of the Kyaneshowor river

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock; fishery; Domestic use
Cultural services	Excursion site for students

### **G. Restoration/Management**

Structural management	NA
Non-structural management	Plantation near lake
Conservation plan	NA
Monitoring plan	NA

**H. Tourism information** NA

**I. Lake condition** Degrading.

## 2. Pancha Kanya

Code: P3-D9-002

Topo sheet no: 2685 08 B

Date of inventory: May 23, 2013

Compiler's name: Sujan Ghimire



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 27°14'56"N; <u>Lon.</u> : 85°45'39" E; <u>Alt.</u> : 315 masl.
Geographical position	Siwalik/Churiya zone
Administrative feature	CDR; Sindhuli district; Kalpabrikshykha VDC; 6 ward; Baluwatole. (Currently: Marin Rural Municipality; Ward no. 5)
Boundary	<u>Core Area</u> : road in east; Shiva mandir in west; Forest in south; Gorge in north. <u>Basin Area</u> : forest land in east; forest land in west; forest in south; Agriculture land in north.
Management Responsibility	Government
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 38°C (Jun/Jul). <u>Avg. Min.</u> : 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 1.5 ha; Avg. Length: 150m; 1 m; Avg. Width: 60 m; Avg. Depth: 1 m; <u>Basin Area</u> : 5-8 ha

### C. Hydrological feature

Water Volume	Peak Period: 9 000 m <sup>3</sup> ;
Water quality	<u>Physicochemical parameter</u> : Temp.: 24 °C;
Soil feature	Grey/Sandy Loam
Shocks/vulnerability	NA

### D. Biological feature

Major aquatic plants	Phytoplankton: NA, Zooplankton: NA Core Area: No Plants (100% open water)
Major plants in basin	Sorea robusta (LN: sal; HT: Tr; LU: Tr); Sygizium cumuni (LN: Jamun; HT: Tr; LU: Tr); Bombax cebia (LN: simal; HT: Tr; LU: Tr), ..... (LN: siris; HT: Tr; LU: Tr), others
Fish	... (LN: hile; N/C: 2; LU: Meat); ... (LN: chichikane; N/C: 1; LU: Meat); ... (LN: faketa; N/C: 1; LU: Meat); ... (LN: Siver; N/C: 5; LU: Meat). All species introduce.

Herpetofauna	Rana spp. (LN: Bhyaguto); Melanochelys spp. (LN: Kachuwa); Amphiesma spp. (LN: Panisap); Ptyas spp. (LN: Dhaman)
Birds	Corvus spp. (LN: Crow; ON: 1; Local); Columbus spp. (Pigeon, ON: 6);
Mammals	NA
Invasive alien species	NA
Endemic plant/animal	NA
Abundance of plants	Core Area: NA 100% open water surface Area: <i>Sorea robusta</i> (80%); <i>Bombax</i> (8%), others (12%)

### **E. Socio-Economy at Basin**

Nearby settlement	Bateni; 500 m from lake; Main trail: Kamalamai to barabise road
Land use	Agriculture (85%); Agriculture (10%); Wetlands (2%);
Demography	Population: 1539; Male: 706; Female: 833; HHs: 270; Brahmin/Chettri (5%); Janajati (90%); Dalit (3%); Others (2%); Major Religion: Hindu; Major Dialect: Maithili.
Education	Primary level (75%); School level certificate (+2) (30%); University level (1%).
Occupation	Agriculture (60%); Employment (5%); Trade/Business (0%); Remittance (35%).
Jurisdiction/ownership	State
Wetlands dependent community	None.
Livestock at basin	150
Traditional production system	None
Traditional water use practices	Community pond (2).
Cultural record	NA
Genesis/origin of lake	NA

### **F. Ecosystem Goods/Services**

Provisional services	Water for livestock; fishery; Domestic use
Cultural services	Historic site for hindu community; excursion site for students; local fair in <i>Chhath</i> .

### **G. Restoration/Management**

Structural management	NA
Non-structural management	None
Conservation plan	NA
Monitoring plan	NA

### **H. Tourism information**

<b>I. Lake condition</b>	Degrading.
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## Annex-31: Inventory of lakes in Sindhupalchowk district

### 1. Raithaneshwori Pokhari

Code: P3-D10-001

Topo sheet no: 2785-03B

Date of inventory: May 19, 2013

Compiler's name: Suresh Bhandari and Dinesh Acharya



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°55'52.419"N; <u>Lon.</u> : 85°39'29.98" E; <u>Alt.</u> : 1750 amsl.
Geographical position	Mahabharat and flat.
Administrative feature	CDR; Sindhupalchowk district; Thanpalkot VDC; 4 wards; Raithane (Currently: Panchpokharithangpal RuralMunicipality; Ward no. 4)
Boundary	<u>Core Area</u> : School in east; Settlement in west; forest/settlement in south; Raithaneshori temple in north. <u>Basin Area</u> : Agriculture in east; settlement in west; Agriculture land/Settlement in south; Agriculture land in north.
Management Responsibility	School and community members.
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 32.5°C (Jun/Jul). <u>Avg. Min.</u> : 5°C (Dec).
Physical feature	
Area	<u>Core Area</u> : 1.2 ha; Avg. Length: 150 m; Avg. Width: 80 m; Avg. Depth: 3.6 m; Max-Min Surface Water Level: 3.6– 2.1 m; <u>Basin Area</u> : 35 ha.

#### C. Hydrological feature

Water Volume	Peak Period: 43200 m <sup>3</sup> ; Dry period: 25 200 m <sup>3</sup> ; Rain fed.
Water quality	<u>Physicochemical parameter</u> : Temp.: 25°C; pH: Neutral; Soil feature Grey and dark color, sandy silt loam texture.
Shocks/vulnerability	None

#### D. Biological feature

Major aquatic plants	Phytoplankton: Algae sp (150ind./m <sup>2</sup> ), Zooplankton: NA Core Area: None
Major plants in basin	Alnus nepalensis (LN: Utish; HT: Tr; LU: Tr); Schima Wallichii (LN: Chilaune; HT: Tr; LU: Tm, Ful); Michella champaca. (LN: Chanmp; HT: Sh; LU: Tm, Fd); Ficus bengelensis (LN: Bar; HT: Tr; LU: Tm, resin); Bombax ceiba (LN; Simal, HT; Tr, LU; Tm) Pyrus spp (LN: Mayel; HT: Tr; LU: Sh); Ficus Religiosa

	(LN: Pipal; HT: Tr; LU:); <i>Artimesia vulgaris</i> (LN: Titepati; HT: Tr; LU: Fodder), Pteridophytes (LN: Uniu, EN: Fern, HT, Herb).
Fish	... (LN: Common Carp; N/C: 5; LU: Meat): introduced
Herpetofauna	<i>Rana tigrina</i> (LN: Bhyagutta ON; 2)
Birds	<i>Pichnonothus</i> sp. (LN: Bhangera; ON: 7; Migratory); ... (Saraute, ON: 1) ;(LN: Dhukur; ON: 2; LU: Meat); ... (LN: Jureli, ON: 1
Mammals	None
Invasive alien species	Plants: <i>Eupatorium</i> sp (LN: Banmara, CO: 10%);
Endemic plant/animal	Plant: None. Animal: None
Abundance of plants	Core Area: None. Basin Area: <i>Alnus nepalensis</i> (25%); <i>Schima wallichii</i> (30%); <i>Bombax ceiba</i> (4%); <i>Ficus religiosa</i> (1%); <i>Ficus bengelensis</i> (1%); <i>Pyrus spp</i> (5%); <i>Mychella champaca</i> (3%); <i>Pteridophytes</i> (6%) <i>Artemesiavulgaris</i> (10%).

## E. Socio-Economy at Basin

Nearby settlement	Melamchi Bazar; 25 km from lake; Main trail: Kathmandu-Melamchi road.
Land use	Forest land (37%); Agriculture (40%); Settlement (20%); Wetlands (3%);
Demography	Population: 616; Male: 380; Female: 236; HHs: 95; Brahmin/Chettri (5%); Janajati (95%); Major Religion: Hindu/Budism; Major Dialect: Nepali.
Education	Primary level (90%); School level certificate (+2) (25%); University level (4%).
Occupation	Agriculture (90%); Employment (25%); Trade/Business (15%); Remittance (10%).
Jurisdiction/ownership	State
Wetlands dependent community	None
Livestock at basin	280 no.
Traditional production system	None.
Traditional water use practices	Water mill in basin area
Cultural record	Raithaneshwori Mai lives in lake area.
Genesis/origin of lake	NA

## F. Ecosystem Goods/Services

Provisional services	None.
Cultural services	Historic site; excursion site for students; local fair and local people worship in Janaipurnima, Teej, Shivaratri, Krishnaastami and Gaijatra.

## G. Restoration/Management

Structural management	Wall, afforestation.
Non-structural management	Informal restriction (fine for washing clothes, bathing).
Conservation plan	Available.
Monitoring plan	None.

**H. Tourism information**

No specific visitors in this lake; locally operated hotel-1; Needs improvement in infrastructure and human resource.

**I. Lake condition**

Degrading.

## Annex-32: Inventory of lakes in Baglung district

### 1. Barah Tal-I

Code: P4-D1-001

Toposheet no: 2883-16 B

Date of inventory: March, 2015



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.:</u> 28°14'54.56"N; <u>Lon.:</u> 83°36'12.97" E; <u>Alt.:</u> 1378 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	WDR; Baglung district; Bhakunde VDC -7; Bhakundegaun. (Current: Baglung Municipality; Ward no. 10)
Boundary	<u>Core Area:</u> Barah Temple & Cropland in west; Settlements in east; Forest in south; Cropfield & settlements in north. <u>Basin Area:</u> Agriculture area of Bhakunde gaon in west; Dahagaun in east; Forest & Homestay village in south; Siranghar - Bhakunde in north.
Management responsibility	<i>Shree Barah Mandirtal Bewasthapan tatha Samrakchan Samiti</i> ; Bhakunde 7.
Wetlands type	Freshwater/natural; Aquifer; Perennial.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.:</u> 26.6 <sup>0</sup> C. <u>Avg. Min.:</u> 19.1 <sup>0</sup> C. <u>Avg. Rainfall:</u> 1060.9 mm/yr (DDC Profile).
Area	<u>Core area:</u> 0.28 ha; Avg. Length: 60 m; Avg. Width: 60 m; Avg. Depth: 3 m; Max-Min Surface Water Level: 5-3 m; <u>Basin Area:</u> 4 ha.
Water Volume	<u>Volume:</u> NA; <u>Inlet:</u> None; <u>Outlet:</u> Irrigation canal.
Water quality	<u>Physicochemical parameter:</u> Temp: 22 <sup>0</sup> C, pH:6; Transparency: 1.5 m;
Soil feature	Dark color; Clay loam texture.
Shocks/vulnerability	Siltation
Major aquatic plants	<u>Core Area:</u> <i>Hedera nepalensis</i> (LN: Khursanijhar; EN: Himalayan ivy; HT: Cr); <i>Ageratum conyzoides</i> (LN: Hanumanejhar; EN: Goat weed; HT: Em); <i>Anaphalis contorta</i> (LN: Buki; EN: HT: Em; LU: Fd).
Major plants in basin	<i>Fraxinis floribunda</i> (LN: Lakuri; HT: Tr; LU: Fd, Tm); <i>Prunus cerasoides</i> (LN: Paiyun; HT: Tr; LU: Fruit; Fd; Ful); <i>Rhododendron</i> spp (LN: Guras; HT: Tr; LU: Tm); <i>Ficus nemoralis</i> (LN: Dudhilo; LU: Tm); <i>Quercus semecarpifolia</i> (LN: Khasrung; HT: Tr; LU: Fd; Ful); <i>Garuga pinnata</i> (LN: Dabdabe; HT: Tr; LU: Fd, Ful).
Fish	<i>Cyprinus carpio</i> (LN: Karp; EN: Common Carp; LU: Meat); <i>Ctenopharyn godonidella</i> (LN: Karp; EN: Grass Carp; LU: Meat).

Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto; EN: Frog); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad); <i>Amphiesma spp</i> (LN: Panisarpo; EN:)
Bird	<i>Lophophorus impejanus</i> (LN: Dhafe; EN: Himalayan monal); <i>Anser indicus</i> (LN: Haans; EN:); <i>Eudynamys scolopaceus</i> (LN: Koili; EN: Asian Koel); <i>Lophophorus leucomelanus</i> (LN: Kalij; EN:); <i>Caprimulgus macrurus</i> (LN: Lampuchre; EN: Largetailed Nightjar); <i>Tragopan satyr</i> (LN: munal; EN:)
Mammals	<i>Martes flavigula</i> (LN: Malsapro; EN: Yellow Marten); <i>Moschu ssp</i> (LN: Mirga; EN: Deer); <i>Naemorhedus goral</i> (LN: Ghoral; EN: Himalayan Ghoral); <i>Macaca mullata</i> (LN: Badar; EN: Monkey); <i>Panthera pardus</i> (LN: Chitwa; EN: Leopard).
Invasive alien species	<i>Lantana camera</i> (LN: Banmara; EN: Forest killer; Bitter vine).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Bhakundegaun: 100 m from lake; Main Trail: Bhakunde-Baglung Bazar; 10 km from lake to the main trail.
Land use	Forest land (20%); Agriculture (60%); Grassland (5%); Settlement (10%); Barren land (3%); Wetland (2%).
Demography	Population: 3483; Male: 1520; Female: 1963; HHs: 867; Ethnicity: Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>300.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Famer managed irrigation canal.
Cultural record	Barah temple at west of lake.
Genesis/origin of lake	Dammed.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Irrigation; Water for livestock; Commercial fishery.
Cultural services	Aesthetic and scenic; Recreational; Religious.
<b>E. Restoration/Management</b>	
Structural management	Metal and concrete wall around lake.
None-structural management	None.
Conservation plan	Yes.
Monitoring plan	None.
<b>F. Tourism information</b>	
	>7000 annual visitors; Homestay facilities and hotels in Baglung Bazaar (6 km from lake); No tourism potential.
<b>G. Lake condition</b>	
	Degrading.



## 2. Barah Tal-II

Code: P4-D1-002

Toposheet no: 2883-09 B

Date of inventory: March, 2015



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°24'35.92"N; <u>Lon.</u> : 83°09'36.15"E; <u>Alt.</u> : 2661 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	WDR; Baglung district; Bonga Dobhan VDC -7; Dipdanda. (Current: Taman Khola Rural Municipality; Ward no. 6)
Boundary	<u>Core Area</u> : Muthachaur forest in west and east; Muthachaur forest and Barah temple in south; Forest and settlements in north. <u>Basin Area</u> : Bhairebhunga village in west; Forest in east; Forest/pasture land in south; Forest in north.
Management responsibility	VDC.
Wetlands type	Freshwater/natural; Aquifer; Perennial.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 24.7 <sup>0</sup> C. <u>Avg. Min.</u> : 11.2 <sup>0</sup> C. <u>Avg. Rainfall</u> : 1633 mm/yr (DDC Profile).
Area	<u>Core Area</u> : 0.4 ha; Avg. Length: 100 m; Avg. Width: 40m; Avg. Depth: 2 m; Max-Min Surface Water Level: 7-5 m; <u>Basin Area</u> : 5 ha. <u>Volume</u> : NA; <u>Inlet</u> : None; <u>Outlet</u> : Overflow ultimate to Ghari Khola.
Water quality	<u>Physicochemical parameter</u> : Temp: 14 <sup>0</sup> C, pH: 6.5; Transparency: 2 m.
Soil feature	Dark color; Clay loam texture.
Shocks/vulnerability	Nutrient enrichment; Silt erosion.
Major aquatic plants	<u>Core Area</u> : Some species of algae observed.
Major plants in basin	<i>Rhododendron</i> spp (LN: Guras; HT: Tr; LU: Tm); <i>Quercus leucotricphora</i> . (LN: Sano Banjh; HT: Tr; LU: Tm, Fd); <i>Osbeckia</i> spp (LN: Aager; HT: Sh; LU: Ful, Litter); <i>Quercus semecarpifolia</i> (LN: Khasrung; Khasru; HT: Sh; LU: Tm, Fd).
Fish	None.
Herpetofauna	<i>Rana</i> spp. (LN: Bhyaguto; EN:); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad); <i>Amphiesma</i> spp (LN: Panisarpo; EN: Keelback).
Bird	<i>Lophophorus impejanus</i> (LN: Dhafe; EN: Himalayanmonal); <i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Eudynamys scolopaceus</i> (LN: Koili; EN: Asian Koel); <i>Lophophorus leucomelanus</i> (LN: Kalij; EN:); <i>Caprimulgus macrurus</i> (LN:

Mammals	Lampuchre; EN: Large-tailed Nightjar); <i>Tragopan satyr</i> (LN: Munal; EN:); <i>Martes flavigula</i> (LN: Malsapro; EN: Yellow Marten); <i>Moschus moschiferus</i> (LN: Mirga; EN: Deer); <i>Naemorhedus goral</i> (LN: Ghoral; EN: Himalayan goral); <i>Macaca mullata</i> (LN: Badar; EN: Monkey); <i>Panthera pardus</i> (LN: Chitwa; EN: Leopard).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	; 5 km from lake; Main Trail: Burtiwang-Bonga Dobhan road; 15 km from lake to main trail.
Land use	Forest land (60%); Agriculture (15%); Grassland (30%); Barren land (3%); Wetland (2%).
Demography	Population: About 5,486; Male: 2,423; Female: 3,063; HHs:1217; Major Religion: Hindu
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>50.
Traditional production system	Dry cop cultivation in terrace field; Potato plantation.
Traditional water use practices	Water coup; Community managed <i>Kulo</i> .
Cultural record	Barah temple.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Water for wildlife and livestock.
Cultural services	None.

### E. Restoration/Management

Structural management	None
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No tourism potential.

### G. Lake condition

Degrading.

### 3. Gaja Daha

Code: P4-D1-003

Toposheet no: 2883 - 15 A

Date of inventory: March, 2015



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 28°11'37.53"N; Lon.: 83°30'46.40"E; Alt.: 2455 masl.

Geographical position

Mahabharat Lekh.

Administrative feature

WDR; Baglung district; Damek VDC -9; Naulagaun.

(Current: Jaimuni Municipality; Ward no. 1)

Boundary

Core area: Forest and Siddha Barahi temple in west; Settlement in east; Settlement area in south; Agriculture land and settlement in north.

Basin Area: Damek VDC ward 9 in east; Dhudhilabhati VDC in west and north; Damek VDC ward 9 in south.

Management responsibility

Gaja Daha Samrakchan tatha Samudayik Bikas Kendra.

Wetlands type

Freshwater/natural; Aquifer; Perennial.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 24.60 C. Avg. Min.: 17.10 C. Avg. Rainfall: 1060.9 mm/yr (DDC).

Area

Core area: 0.46 ha; Avg. Length: 80 m; Avg. Width: 60 m; Avg. Depth: 3 m; Max-Min Surface Water Level: 8-6 m; Basin Area: 6 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: Irrigation canal.

Water quality

Physicochemical parameter: Temp: 21 °C, pH: 6; Transparency: 1 m.

Soil feature

Dark color; Sandy clay texture.

Shocks/vulnerability

Siltation

Major aquatic plants

Core area: Some species of algae observed.

Major plants in basin

*Rhododendron sps* (LN: Guras; HT: Tr; LU: Tm); *Quercus semecarpifolia* (LN: Khasrung; HT: Tr; LU: Fd; Ful); *Garuga pinnata* (LN: Dabdabe; HT: Tr; LU: Fd, Tm, Ful); *Myrica integrifolia* (LN: Kafal; HT: Tr; LU: Fd, Fr).

Fish

None.

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad).

Bird

*Lophophorus impejanus* (LN: Dafe; EN: Himalayan monal); *Anser indicus* (LN: Haans; EN: Duck); *Eudynamis scolopaceus* (LN: Koili; EN: Asian Koel); *Lophophorus leucomelanus* (LN: Kalij); *Caprimulgus macrurus* (LN: Lampuchre; EN: Largetailed Nightjar); *Tragopan satyr* (LN: munal).

Mammals	<i>Martes flavigula</i> (LN: Malsapro; EN: Yellow Marten); <i>Moschus sp</i> (LN: Mirga; EN: Deer); <i>Naemorhedus goral</i> (LN: Ghoral; EN: Himalayan Goral); <i>Macaca mullata</i> (LN: Badar; EN: Monkey); <i>Panthera pardus</i> (LN: Chitwa; EN: Leopard).
Invasive alien species	<i>Eupatorium adenophorum</i> (LN: Banmara; EN: Forest killer, Bitter vine).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	settlement; 50 m from lake; Main Trail: -Gaja-Putli; About 25 km from lake to the main trail.
Land use	Forest land (40%); Agriculture (8%); Grassland (5%); Settlement (5%); Barren land (3%); Wetland (2%); Barren and others (37%).
Demography	Population: About 5746; Male: 2449; Female: 3297; HHs: 1206; Ethnicity: Major Religion: how come population in 6 ha).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	Traditional rice farming.
Traditional water use practices	Famer managed irrigation canal.
Cultural record	Siddha Barahi temple at west of lake.
Genesis/origin of lake	Dammed.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Water for livestock.
Cultural services	Aesthetic; Recreational; Religious; Local fair during Bala Chaturdasi.

### E. Restoration/Management

Structural management	Concrete wall around lake; NLCDC investment in 2010.
None-structural management	None.
Conservation plan	Yes.
Monitoring plan	None.

### F. Tourism information

>500 annual visitors; Home stay facilities and small hotels; Transportation (approx. 20 km from Baglung Bazar); No tourism potential.

### G. Lake condition

Degrading.

#### 4. Rudra Taal

Code: P4-D1-004

Toposheet no: 2883-09 A

Date of inventory: March, 2015



##### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 28°24'35.92"N; Lon.: 83°09'36.15" E; Alt.: 2661 m amsl.

Geographical position

Mahabharat Lekh.

Administrative feature

WDR; Baglung district; Bobhan VDC -9.

(Current: Dhorpatan Municipality; Ward no. 9)

Boundary

Core area: Forest area in west, east and south, Mutha chaur forest area in north.

Basin Area: Bhaire bhunga, Bhogadovan ward 7 in west; Forest in east; Pallethar Siran village in south; Dhorpatan Hunting Reserve in north.

Management responsibility

None.

Wetlands type

Freshwater/natural; Aquifer; Perennial.

##### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 24.70 C. Avg. Min.: 11.20 C. Avg. Rainfall: 1633 mm/yr.

Area

Core area: 0.4 ha; Avg. Length:100 m; Avg. Width: 40m; Avg. Depth: 2 m; Max-Min Surface Water Level: 7-5 m; Basin Area: 4 ha.

Water Volume

Volume: 7957.06 m<sup>3</sup>; Inlet: Groundwater recharge

Outlet: Small Canal to forest

Water quality

Physicochemical parameter: Temp: 110C, pH:6; Transparency: 2 m;

Soil feature

Dark color; Clay loam texture.

Shocks/vulnerability

Eitrophication.

Major aquatic plants

Core area: Some species of algae found; Rumex nepalensis (LN: halale; EN: Nepal dock; HT: Hr; LU: Medicinal).

Major plants in basin

Rhododendron sps (LN: Guras; HT: Tr; LU: Tm); Quercus semecarpifolia (LN: Khasrung; EN: Khasru; HT: Tr; LU: Fd; ful); *Garuga pinnata* (LN: Dabdabe; EN: Grey downy balsam; HT: Tr); Myrica integrifolia (LN: Kafal; HT: Tr; LU: Fd, fruit) etc.

Fish

NA

Herpetofauna

*Rana* spp. (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad); *Amphiesma* spp (LN: pani sarpo)

Bird	<i>Lophophorus impejanus</i> (LN: Dhafe; EN: Himalayan monal); <i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Eudynamis scolopaceus</i> (LN: koili; EN: Asian koel); <i>Lophophorus leucomelanus</i> (LN: Kalij; EN: Kalij pheasant); <i>Caprimulgus macrurus</i> (LN: Lampuchre; EN: Large tailed nightjar); <i>Tragopan satyr</i> (LN: munal).
Mammals	<i>Sus scrofa</i> (LN: Bandel; EN: Wild boar); <i>Martes flavigula</i> (LN: Malsapro; EN: Yellow marten); <i>Moschus sp</i> (LN: Mirga; EN: Deer); <i>Naemorhedus goral</i> (LN: Ghoral; EN: Himalayan goral); <i>Macaca mullata</i> (LN: badar; EN: Monkey); <i>Panthera pardus</i> (LN: Chitwa; EN: Leopard).
Invasive alien species	None.
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	3km from lake; Main Trail: Burtiwang-Bobhan-Dhorpatan road; 500 m from lake to the main trail.
Land use	Forest land (80%); Agriculture (5%); Grassland (5%); Barren land (8%); Wetland (2%).
Demography	Population: About 7088; Male: 3250; Female: 3838; HHs: 1441.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	100
Traditional production system	Potato plantation.
Traditional water use practices	None.
Cultural record	Rudra temple
Genesis/origin of lake	Dammed
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Water for livestock.
Cultural services	Aesthetic and scenic; Recreational; Religious site
<b>E. Restoration/Management</b>	
Structural management	None
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
<b>G. Lake condition</b>	Hardly any visitors; Very far from village. Degrading.

## Annex-33: Inventory of lakes in Gorkha district

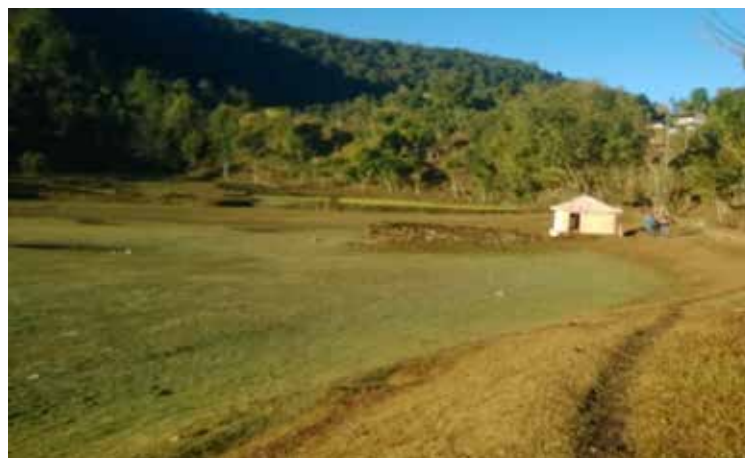
### 1. Ghunchok Pokhari

Code: P4-D2-001

Toposheet no: 2884-15D

Date of inventory: 18<sup>th</sup> February, 2014

Compiler's name: Narendra Gautum, Aparajit Shrestha and Dipendra Sharma



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°07'4"N; <u>Lon.</u> : 84°42'11"E; <u>Alt.</u> : 1316 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	WDR; Gorkha district; Saurpani VDC; Ward no. 3; Pokhari. (Current: Barpak Sulikot Rural Municipality; Ward no. 4)
Boundary	<u>Core area</u> : Agricultural land in east, north and south; Temple in west. <u>Basin Area</u> : Forest in east and north; Agricultural land in west and south.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; palustrine; emergent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 27° C (Jul/Aug). <u>Avg. Min.</u> : 0° C (Dec/Jan).
Area	<u>Core area</u> : 1.25 ha; Avg. Length: 130 m; Avg. Width: 110 m; Avg. Depth: 2.5 m; Max - Min Surface Water Level: NA <u>Basin Area</u> : 20 ha.
Water Volume	None; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Dry condition so not available.
Soil feature	Grey color; silty clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Rel); <i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Tm/Ful); <i>Castanopsis indica</i> (LN: Katus; HT: Tr; LU: Ful); <i>Alnus nepalensis</i> (LN: Uttis; HT: Tr; LU: Tm/Ful).
Fish	None.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto) ;); ... (LN: Karat sap); <i>Naja naja</i> (LN: Goman saap).

Birds *Cocon alpines* (LN: Bankhukura); ... (LN: Lampuchhre; ON: 10); *Passer domesticus* (LN: Bhangera; ON: 15); *Francolinus gularis* (LN: Titra; ON: 1; LU: Meat).

Mammals *Hystrix indica* (LN: Dumsi); *Canis aureus* (LN: Syal).

Invasive alien species *Eupatorium sp* (LN: Banmara, CO: 10%).

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Pokhari village; 500 m from lake; Main Trail: Pokhari village motor road; 100 m from lake.

Land use Forest land (60%); Agriculture (30%); Settlement (8%); Wetland (2%).

Demography Population: 150; Male: 50; Female: 100; HHs: 28; Brahmin/Chettri (100%); Major Religion: Hindu.

Jurisdiction/ownership State.

Wetlands dependent community None

Livestock at basin > 375

Traditional production system Traditional maize farming.

Traditional water use practices None.

Cultural record None.

Genesis/origin of Lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Water for livestock; Fuelwood; Fodder/forage.

Cultural services Religious services.

### **E. Restoration/Management**

Structural management None.

Non-structural management Informal restriction.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** None.

**G. Lake condition** Degraded.



## 2. Tal Pokhari

Code: P4-D2-002

Toposheet no: 2884-14D

Date of inventory: 19<sup>th</sup>  
February, 2014

Compiler's name: Narendra  
Gautum, Aparajit Shrestha and  
Dipendra Sharma



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°01'57"N; <u>Lon.</u> : 84°28'7"E; <u>Alt.</u> : 502 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	WDR; Gorkha district; Gaikhur VDC; Ward no. 2; Kalamata. (Current: Palungtar Municipality; Ward no. 5)
Boundary	<u>Core area</u> : Forest in east; Agricultural land and Temple in west; Agricultural land in north and south. <u>Basin Area</u> : Forest in east; Agricultural land and forest in west; Agricultural land in north and south.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Palustrine; emergent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 27° C (Jul/Aug). <u>Avg. Min.</u> : 0° C (Dec/Jan).
Area	<u>Core area</u> : 1.25 ha; Avg. Length: 250 m; Avg. Width: 50 m; Avg. Depth: 2.0 m; Max - Min Surface Water Level: 1.5 - 2 m; <u>Basin Area</u> : 12 ha.
Water Volume	Peak Period: 20000 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16° C; pH: 6; Transparency: not measurable due to low water volume.
Soil feature	Grey color; Silt clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Rel); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm/Ful); <i>Michelia champaca</i> (LN: Chap; HT: Tr; LU: Tm/ Ful); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Tm/Ful); <i>Cedrella toona</i> (LN: Tuni; HT: Tr; LU: Ful, Fd).
Fish	None.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); ... (LN: Karat sap); <i>Naja naja</i> (LN: Goman saap).

Birds	<i>Pycnonotus sp</i> (LN: Jureli; ON: 7; Migratory); ... (LN: Lampuchhre; ON: 10); <i>Passer domesticus</i> (LN: Bhangera; ON: 15); <i>Francolinus gularis</i> (LN: Titra; ON: 1; LU: Meat).
Mammals	... (LN: Kharayo); <i>Canis aureus</i> (LN: Syal).
Invasive alien species	None.
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Kalamata Bazaar; 500 m from lake; Main Trail: Dumre-Beisahar - Airport road; approx 200 m from lake.
Land use	Forest land (70%); Agriculture (20%); Settlement (5%); others (5%).
Demography	Population: 34; Male: 14; Female: 20; HHs: 7; Brahmin/Chettri (40%); Janajati (20%); Dalit (20%); Others (10%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None.
Traditional production system	Traditional maize farming.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of Lake	NA.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Water for livestock; Fuel wood; Fodder/forage.
Cultural services	Religious site.
<b>E. Restoration/Management</b>	
Structural management	Wall; Embankments by JICA support.
None. -structural management	Informal restriction.
Conservation plan	Available.
Monitoring plan	None.
<b>F. Tourism information</b>	
None.	
<b>G. Lake condition</b>	
Degraded.	

### 3. Thulo Pokhari

Code: P4-D2-003

Toposheet no: 2884-15D

Date of inventory: 17<sup>th</sup> February, 2014

Compiler's name: Narendra Gautum, Aparajit Shretha and Dipendra Sharma



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°02'44"N; <u>Lon.</u> : 84°41'48"E; <u>Alt.</u> : 967 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	WDR; Gorkha district; Meshil VDC; Ward no. 6; Thulopokhari. (Current: Bhimsenthapa Rural Municipality; Ward no. 1)
Boundary	<u>Core area</u> : Temple in west; Chautara in south, north and east. <u>Basin Area</u> : Agricultural land in west, east and north; road in south.
Management Responsibility	VDC.
Wetlands type	None

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 27° C (Jul/Aug). <u>Avg. Min.</u> : 0° C (Dec/Jan).
Area	<u>Core area</u> : 0.5 ha; Avg. Length: 40 m; Avg. Width: 30 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: NA; <u>Basin Area</u> : 2 ha.
Water Volume	Estimated 10000 m <sup>3</sup> ; Inlet: None; Outlet: Small gully.
Water quality	<u>Physicochemical parameter</u> : Dry condition so not available.
Soil feature	Dark color; Clay texture.
Shocks/vulnerability	Exposed to dry condition.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Tm/Ful); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Rel); <i>Castanopsis indica</i> (LN: Katus; HT: Tr; LU: Ful); <i>Alnus nepalensis</i> (LN: Uttis; HT: Tr; LU: Tm/Ful).
Fish	None.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); ... (LN: Karat sap); <i>Naja naja</i> (LN: Goman saap).
Birds	<i>Pycnonotus sp</i> (LN: Jureli; ON: 3; Migratory); ... (LN: Lampuchhre; ON: 5); <i>Passer domesticus</i> (LN: Bhangera; ON: 15); <i>Francolinus gularis</i> (LN: Titra; ON: 1; LU: Meat).

### 3. Thulo Pokhari

Code: P4-D2-003

Toposheet no: 2884-15D

Date of inventory: 17<sup>th</sup> February, 2014

Compiler's name: Narendra Gautum, Aparajit Shretha and Dipendra Sharma



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°02'44"N; <u>Lon.</u> : 84°41'48"E; <u>Alt.</u> : 967 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	WDR; Gorkha district; Meshil VDC; Ward no. 6; Thulopokhari. (Current: Bhimsenthapa Rural Municipality; Ward no. 1)
Boundary	<u>Core area</u> : Temple in west; Chautara in south, north and east. <u>Basin Area</u> : Agricultural land in west, east and north; road in south.
Management Responsibility	VDC.
Wetlands type	None

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 27° C (Jul/Aug). <u>Avg. Min.</u> : 0° C (Dec/Jan).
Area	<u>Core area</u> : 0.5 ha; Avg. Length: 40 m; Avg. Width: 30 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: NA; <u>Basin Area</u> : 2 ha.
Water Volume	Estimated 10000 m <sup>3</sup> ; Inlet: None; Outlet: Small gully.
Water quality	<u>Physicochemical parameter</u> : Dry condition so not available.
Soil feature	Dark color; Clay texture.
Shocks/vulnerability	Exposed to dry condition.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Tm/Ful); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Rel); <i>Castanopsis indica</i> (LN: Katus; HT: Tr; LU: Ful); <i>Alnus nepalensis</i> (LN: Uttis; HT: Tr; LU: Tm/Ful).
Fish	None.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); ... (LN: Karat sap); <i>Naja naja</i> (LN: Goman saap).
Birds	<i>Pycnonotus sp</i> (LN: Jureli; ON: 3; Migratory); ... (LN: Lampuchhre; ON: 5); <i>Passer domesticus</i> (LN: Bhangera; ON: 15); <i>Francolinus gularis</i> (LN: Titra; ON: 1; LU: Meat).

## Annex-34: Inventory of lakes in Kaski district

### 1. *Alaiche Pokhari*

Code: P4-D3-001

Toposheet no: 2884-13B

Date of inventory: 4<sup>th</sup> March, 2014

Compiler's name: Narendra Gautum, Aparajit Shrestha and Dipendra Sharma



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°12'10.76"N; <u>Lon.</u> : 84°09'2.33"E; <u>Alt.</u> : 1024 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	WDR; Kaski district; Majthana VDC; Ward no. 3; Alainche. (Current: Madi Rural Municipality; Ward no. 12)
Boundary	<u>Core area</u> : Road in east; Forest in west and south; Stone wall in north.
<u>Basin Area</u>	Forest in west, south and north; Settlement in east.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Lacustrine; Seasonal.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 25° C (June). <u>Avg. Min.</u> : 4.5° C (Jan); <u>Avg. Rainfall</u> : 1711.9 ml (July). (Source: District Profile Kaski, Lumle Agro Metrological station 2004).
Area	<u>Core area</u> : 0.5 ha; Avg. Length: 50 m; Avg. Width: 40 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 01 - 0.5 m <u>Basin Area</u> : 20 ha.
Water Volume	Very little water during survey; eastimated volume: 1500 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16° C; pH: 6; Transparency: non measurable during inventory.
Soil feature	Dark color; sandy clay texture.
Shocks/vulnerability	Exposed to dryness.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Dendrocalamus sp.</i> (LN: Bans; HT: Tr; LU: NTFPs); <i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: Tr); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Rel); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Tm, Ful); ... (LN: Tiju).
Fish	None.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); ... (LN: Karat sap); <i>Naja naja</i> (LN: Goman saap).

Birds	<i>Acridotheres tristis</i> (LN: Dangre); <i>Pycnonotus sp</i> (LN: Jureli); <i>Crovis splendens</i> (LN: Kaag); <i>Streptopelia decaocto</i> (LN: Dhikur); ... (LN: Lampuchhre); <i>Cuculus sp</i> (LN: Koili); <i>Lophura leucomelanos</i> (LN: Kalij).
Mammals	<i>Macaca mulatta</i> (LN: Monkey); <i>Ursus sp</i> (LN: Bhalu); <i>Martes flicigula</i> (LN: Malsapro); <i>Moschus sp</i> (LN: Mirga); <i>Panthera pardus</i> (LN: Chitwa); ... (LN: Kharayo); <i>Canis aureus</i> (LN: Syal).
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Kamal Danda; 200 m from lake; Main Trail: Royal trek trail; approx. 500 m from lake.
Land use	Forest land (65%); Grassland (10%); Settlement (10%) Agriculture (10%); Wetlands (5%).
Demography	Population: 65; Male: 30; Female: 35; HHs: 15; Brahmin/chhetri (100%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	> 40 no.
Traditional production system	Terrace maize farming.
Traditional water use practices	Play ground for bufallo.
Cultural record	None.
Genesis/origin of Lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Water for livestock; Fuel wood; Fodder/forage.
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
Non structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degraded.

## 2. Bage Pokhari

Code: P4-D3-002

Toposheet no: 2884-13B

Date of inventory: 4<sup>th</sup> March, 2014

Compiler's name: Narendra Gautum,  
Aparajit Shrestha and Dipendra  
Sharma



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°10'57.273" N; <u>Lon.</u> : 84°10'00.730" E; <u>Alt.</u> : 1278 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	WDR; Kaski district; Hansupar VDC; Ward no. 7; Ditthagaune. (Current: Rupa Rural Municipality; Ward no. 7)
Boundary	<u>Core area</u> : Road in west, south and north; Barren land in east. <u>Basin Area</u> : Forest in west, east and north; Temple in south.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Lacustrine; Seasonal.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 25° C (June). <u>Avg. Min.</u> : 4.5° C (Jan); <u>Avg. Rainfall</u> : 1711.9 ml (July). (Source: District Profile Kaski, Lumle Agro Metrological station 2004).
Area	<u>Core area</u> : About 1 ha; Avg. Length: 80 m; Avg. Width: 60 m; Avg. Depth: 2 m; Max - Min Surface Water Level: 1.5 - 0.5m <u>Basin Area</u> : 20 ha.
Water Volume	Dry when surveying; Inlet: None; Outlet: None
Water quality	<u>Physicochemical parameter</u> : Dry when surveying so not available.
Soil feature	Dark color; sandy clay texture.
Shocks/vulnerability	Siltation.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Ful); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm, Ful); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Rel); <i>Castanopsis indica</i> (LN: Katus; HT: Tr; LU: Ful/Fruit).
Fish	None.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); ... (LN: Karat sap); <i>Naja naja</i> (LN: Goman saap).
Birds	<i>Pycnonotus sp</i> (LN: Jureli); ... (LN: Kokale); <i>Streptopelia decaccto</i> (LN: Dhikur); .... (LN: Lampuchhre); <i>Dicrurus macroceros</i> (LN: Chibe).

Mammals *Macaca mulatta* (LN: Monkey); *Ursus sp* (LN: Bhalu); *Martes flicigula* (LN: Malsapro); *Mosehus sp* (LN: Mirga); *Panthera pardus* (LN: Chitwa); ... (LN: Kharayo); *Canis aureus* (LN: Syal).

Invasive alien species None.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Dittha Gaun; 250 m from lake; Main Trail: Dharapani village road; 300 m from lake.

Land use Forest land (90%); Settlement (2%) Barren land (5%); Wetlands (3%).

Demography Population: 4; Male: 2; Female: 2; HHS: 1; Gurung (100%); Major Religion: Hindu.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin > 15 no.

Traditional production system None.

Traditional water use practices None.

Cultural record None.

Genesis/origin of Lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Water for livestock in rainy period; Fuelwood; Fodder/forage.

Cultural services None.

### **E. Restoration/Management**

Structural management None.

Non structural management None.

Conservation plan None.

Monitoring plan None.

### **F. Tourism information**

No visitors; No tourism potential.

### **G. Lake condition**

Degraded.



### 3. Barna pokhari

Code: P4-D3-003

Toposheet no: 2884-13B

Date of inventory: 3<sup>rd</sup> March, 2014

Compiler's name: Narendra Gautum, Aparajit Shrestha and Dipendra Sharma



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28 <sup>00</sup> 9'8.16" N; <u>Lon.</u> : 84 <sup>00</sup> 8'55.00" E; <u>Alt.</u> : 1233 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	WDR; Kaski district; Rupakot VDC; Ward no. 1; Bame pokhari. (Current: Rupa Rural Municipality; Ward no. 6)
Boundary	<u>Core area</u> : Chautra in west: Temple in east: Chautara in south: Agricultural land in north. <u>Basin Area</u> : Agricultural land in east and west: Building and forest in south: Kotdada in north.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; palustrine; emergent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 25 <sup>0</sup> C (June). <u>Avg. Min.</u> : 4.5 <sup>0</sup> C (Jan); <u>Avg. Rainfall</u> : 1711.9 ml (July). (Source: District Profile Kaski, Lumle Agro Metrological station 2004).
Area	<u>Core area</u> : Approx 1 ha; Avg. Length: 50 m; Avg. Width: 25 m; Avg. Depth: 2 m; Max - Min Surface Water Level: 2 - 0.5m <u>Basin Area</u> : 10 ha.
Water Volume	Dry during survey time.
Water quality	<u>Physicochemical parameter</u> : Dry during survey so not available.
Soil feature	Grey color; sandy clay texture.
Shocks/vulnerability	Encroachment.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Tm, Ful); <i>Castanopsis indica</i> (LN: Katus; HT: Tr; LU: Fruit, Ful); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm, Ful); <i>Michelia champaca</i> (LN: Chap; HT: Tr; LU: Tm); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Tm); <i>Cedrella toona</i> (LN: Tuni; HT: Tr; LU: Ful, Fd); ... (LN: Lakuri; HT: Tr; LU: Fd).
Fish	None.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); ... (LN: Karat sap); <i>Naja naja</i> (LN: Goman saap).

Birds *Pycnonotus sp* (LN: Jureli); *Crocvus splendens* (LN: Kaag); *Streptopelia decaocto* (LN: Dhikur); ... (LN: Lampuchhre); *Dicrurus macroceros* (LN: Chibe).

Mammals *Martes flicigula* (LN: Malsapro); ... (LN: Mirga); *Panthera pardus* (LN: Chitwa); ... (LN: Kharayo); *Canis aureus* (LN: Syal).

Invasive alien species None.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Virchok; 100 m from lake; main Trail: Virchok village road; 50 m from lake.

Land use Forest land (70%); Agriculture (15%); Barren land (10%); Wetland (5%).

Demography Population: 135; Male: 75; Female: 60; HHs: 27; Janajati (100%); Major Religion: Hindu.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin > 135 no.

Traditional production system Terrace farming.

Traditional water use practices None.

Cultural record None.

Genesis/origin of Lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Water for livestock; Fuelwood; Fodder/forage.

Cultural services None.

### **E. Restoration/Management**

Structural management None.

Non structural management None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degraded.

## 4. Begnas Tal

Code: P4-D3-004

Toposheet no: 2884-13A

Date of inventory: March, 2014

Compiler's name: Prakash Sigdel;  
Shailendra Pokharel



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 28°09'04" N; Lon.: 84°48'10" E; Alt.: 685 masl.

Geographical position

Mahabharat Lekh, valley.

Administrative feature

WDR; Kaski district; Lekhnath Municipality; Ward no. 9, 10 & 11; Begnas Buspark Bazar.

Boundary

(Current: Pokhara Sub Metropolitan City; Ward no. 4)

Core area: Hotels/resort at Piple and forest in Magar Danda in east; Ghatko Pakho Ban, Dhanbase, Kalimati and Majhi Kuna in west; Dam and fishery research center, Jyamire and Lakuri in south and Bhageri and Khanswara Danda in north.

Basin Area: Piple, Pyari Danda, Magar Danda and Lamsowra village in east; Simalpata, Basaulatar and Mukhyatar in west; Bastola gaon in north; Panchbhaiya & Begnas Tal Bazar in south.

Management responsibility

Begnas Lake Conservation Committee.

Wetlands type

Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 25.50 C (Aug). Avg. Min.: 13.20 C (Jan); Avg. Rainfall: 3710 mm/yr.

Area

Core area: 327 ha; Avg. Length: 2300 m; Avg. Width: 1000 m; Avg. Depth: 6.6 m; Max - Min Surface Water Level: 10.6 - 3 m; Basin Area: >2000 ha (source: RIS 2014).

Water Volume

17.9 X 10<sup>6</sup> m<sup>3</sup>; Inlet: Syankhudi Khola; Outlet: Khudi Khola; concrete irrigation canal in south.

Water quality

Physicochemical parameter: Temp: 27.60 C; pH: 7.5; Conductivity: 24.5; DO: 7.3 mg/L; Alkalinity: 23.3 mg/L; Total hardness (as CaCO<sub>3</sub>): 17.8 mg/L; BOD: 8.4 mg/L (Source: Dept. Env. Science, ASCOL Campus; 2012).

Soil feature

Dark color; sandy silt loam texture.

Shocks/vulnerability

Siltation.

Major aquatic plants

Core area: *Persicaria barbata*, *Trapa quadrispinosa*, *Nymphoides indica*, *Ceratophyllum demersum*, *Potamogeton nodosus*, *Oryza rufipogon*.

Major plants in basin

*Schima wallichii* (LN: Chilaune; HT: Tr; LU: Ful); *Castanopsis indica* (LN: Katus; HT: Tr; LU: Ful); *Alnus nepalensis* (LN: Utish; HT: Tr; LU: Tr); *Shorea robusta* (LN: Sal; HT: Tr; LU: Tm, Ful); *Dalbergia sissoo* (LN: Sisau; HT: Tr; LU: Tm); *Leucana leucocephala* (LN: ...; HT: Tr; LU:); *Michelia champaca* (LN: Chanp; HT: Tr; LU: Ful/Fd).

Fish

*Acrossocheliu hexagonolepis* (LN: Katle; LU: Meat); *Anguilla sp* (LN: Rajbam; LU: Meat); *Barilius barna* (LN: Fageta; LU: Meat); *Tor tor* (LN: Mahaseer; LU: Meat); *Labeo rohita* (LN: Rahu; LU: Meat); *Catla Catla* (LN: Bhaykur; LU: Meat); *Puntios sarona* (LN: Kande; LU: Meat); *Puntius ticto* (LN:

Herpetofauna	Bhite; LU: Meat); <i>Tor patutora</i> (LN: Sahar; LU: Meat); ... (LN: Bam; LU: Meat); <i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Aristichthys nobilis</i> (LN: Bighead; LU: Meat). Rana spp. (LN: Bhyaguto); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad).
Birds	... (LN: Karyang Kurung; EN: Siberian Crane); <i>Alcedo atthis</i> (Kingfisher); <i>Anas crecca</i> (Common Teal); <i>Turdoides nepalensis</i> (Spiny Babbler); <i>Pnoepyga immaculate</i> , Wren babbler; <i>Aythya baeri</i> (Baer's Pochard); <i>Aythya nyroca</i> (Ferruginous Duck); <i>Bubulcus ibis</i> (Cattle Egret); <i>Anhinga melanogaster</i> (Darter); <i>Egretta garzetta</i> (Little Egret); <i>Rhodonessa rufina</i> (Red crested Pochard).
Mammals	<i>Lutra lutra</i> (Common otter); <i>Martes flicigula</i> (LN: Malsapro); ... (LN: Mirga); <i>Panthera pardus</i> (LN: Chitwa); <i>Oryctolagus sp</i> (LN: Kharayo); <i>Canis aureus</i> (LN: Syal; EN: Jackle); <i>Vulpes bengalensis</i> (LN: Phyauro; EN: Fox).
Invasive alien species	Eichhornea crassipes; Eupatorium.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Begnas Tal Bazar; 500 from lake; Main Trail: Talchok – Begnas Tal Tal Bazar - Talbesi road; 3.5 km from lake to Talchock.
Land use	Forest land (35%); Agriculture (30%); Settlement (20%); Wetland (5%); Others (10%).
Demography	Population: 3096; Male: 1455; Female: 2951; HHs: 645; Janajati (60%); Brahmin/Chhetri (20%); Dalit (5%); Others: (15%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	Jalahari; 15 HHs.
Livestock at basin	> 1500 no.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	People mostly visit during full moon, Teej and Sankranti).
Genesis/origin of Lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Irrgating water supply; Fisheries; Water for livestock; Medicine; Fuelwood; Fodder/forage; Food.
Cultural services	Recreational/tourism services; Aesthetic, scenic and educational services.

### E. Restoration/Management

Structural management	Built of large Dam in 1988.
Non - structural management	Volunteer restriction for pollution control.
Conservation plan	Yes.
Monitoring plan	Yes.

### F. Tourism information

250 visitors per day in peak season; Good condition hotel (2); Resort facilities available; More than 25 boat operators. Needs HR development and information center services.

### 7. Lake condition

Good.

## 5. Dipang Tal

Code: P4-D3-005

Toposheet no: 2884-13A

Date of inventory: March, 2014

Compiler's name: Prakash Sigdel and Shailendra Pokharel



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°10'41" N; <u>Lon.</u> : 84°03'35" E; <u>Alt.</u> : 700 masl.
Geographical position	Mahabharat Lekh, valley.
Administrative feature	WDR; Kaski district; Lekhnath Municipality; Ward no. 6; Parvati tole.
Boundary	(Current: Pokhara Sub Metropolitan City; Ward no. 27) <u>Core area</u> : Community forest in east and west; Agriculture field in the north (terrace slope) and south (flat valley). <u>Basin Area</u> : Dhanubase ban in east and north; Maidipakha ban in west; Paddy field in south (Lekhnath-6).
Management Responsibility	Lekhnath Municipality; Dipang Lake Conservation Committee. Municipality gave leasehold magmt. to Deepang Agro Tourism Pvt. Ltd for fishery development.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 25.5 <sup>0</sup> C (Aug). <u>Avg. Min.</u> : 13.2 <sup>0</sup> C (Jan); <u>Avg. Rainfall</u> : 3710 mm/yr.
Area	<u>Core area</u> : 6 ha; Avg. Length: 325 m; Avg. Width: 250 m; Avg. Depth: about 1.5 m; Max - Min Surface Water Level: 2 - 0.5 m; <u>Basin Area</u> : 193 ha.
Water Volume	0.1 x 10 <sup>6</sup> m <sup>3</sup> ; Inlet: None; Outlet: Deurali Khola.
Water quality	Physicochemical parameter: Temp: 27.90 C; pH: 7.5; Conductivity: 40.5; DO: 6.5 mg/L; Alkalinity: 19.4 mg/L; Total hardness (as CaCO <sub>3</sub> ): 15.5 mg/L; BOD: 18.2 mg/L (Source: Dept. Env. Science, ASCOL Campus; 2012).
Soil feature	Dark color; sandy clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Oryza rufipogon</i> (LN: Jungali Dhan); <i>Hygrophiza</i> ; <i>Leersia hexandra</i> (LN: Haade ghas); <i>Eichhornea crassipes</i> (LN: Jalkumbhi); <i>Hydrilla verticellata</i> ; <i>Ceratophyllum demesum</i> ; <i>Vallisnaria spiralis</i> ; <i>Nymphoides indica</i> ; <i>Potamogeton nodosus</i> ; <i>Rorippa nasturtium aquaticum</i> .
Major plants in basin	<i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Ful); <i>Castanopsis indica</i> (LN: Katus; HT: Tr; LU: Ful); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tr); <i>Michelia champaca</i> (LN: Chap; HT: Tr; LU: Tr); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Tm); ... (LN: Tuni; HT: Tr; LU: Tm); ... (LN: Lakuri; HT: Tr; LU: Fd).
Fish	<i>Acrossochilus hexagonolepis</i> (LN: Katle; LU: Meat); <i>Barilius barna</i> (LN: Fageta; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat); <i>Catla Catla</i> (LN: Bhaykur; LU: Meat); <i>Puntius sarona</i> (LN: Kande; LU: Meat); <i>Puntius ticto</i> (LN: Bhite; LU: Meat);

Herpetofauna	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat). <i>Rana spp.</i> (LN: Bhyaguto); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common lizard).
Birds	... (LN: Karyang Kurung; EN: Siberian Crane); <i>Acridotheres tristis</i> (LN: Dangre); <i>Alcedo atthis</i> (Common Kingfisher); Owl, Waterduck, Watercock, <i>Ardea cinera</i> (Grey heron); <i>Butorides striatus</i> (Little heron); <i>Anas crecca</i> (Common Teal); <i>Bubulcus ibis</i> (Cattle Egret); <i>Anhinga melanogaster</i> (Darter); <i>Egretta garzetta</i> (Little Egret); Hawk.
Mammals	<i>Martes flicigula</i> (LN: Malsapro); .... (LN: Mirga); <i>Panthera pardus</i> (LN: Chitwa); <i>Oryctolagus sp</i> (LN: Kharayo); <i>Canis sp</i> (LN: Syal); <i>Vulpes bengalensis</i> (LN: Phyauro; EN: Fox).
Invasive alien species	<i>Eichhornea crassipes</i> .
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Pavati gaon; 2 km from lake; Main Trail: Sisuwa Bazar-Pandechaur; about 3 km from Sisuwa Bazar to lake.
Land use	Forest land (45%); Agriculture (30%); Settlement (15%); Wetland (5%); Others (5%).
Demography	Population: 3597; Male: 1796; Female: 1801; HHs: 725; Ethnicity: Brahmin/Chhetri (55%); Janajati (40%); Others (5%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	> 1200.
Traditional production system	Terrace farming, conventional paddy cultivation.
Traditional water use practices	Farmer managed canal.
Cultural record	None.
Genesis/origin of Lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Irrigating; Fishery; Water for livestock; Fuelwood; Fodder.
Cultural services	Recreational/tourism and educational services.

### E. Restoration/Management

Structural management	Earthen dam supported by NLCDC in 2011.
Non structural management	Volunteer restriction for felling of trees at basin.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

One tea shop at foothill of Maidipakha; Occasional visitors; Initiative to develop area as honey moon lake site. High tourism potential; Need infrastruce improvement and marketing.

### G. Lake condition

Good.

## 6. Gunde Tal

Code: P4-D3-006

Toposheet no: 2884-13A

Date of inventory: March, 2014

Compiler's name: Prakash Sigdel  
and Shailendra Pokharel



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°11'16" N; <u>Lon.</u> : 84°02'15"; Alt.: 750 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	WDR; Kaski district; Lekhnath Municipality; Ward no. 4; Maddatkopatan.  (Current: Pokhara Sub Metropolitan City; Ward no. 26)
Boundary	<u>Core area</u> : Terrace field in east, west and north; Paddy field in south. <u>Basin Area</u> : Terrace field and forest in east and north; Baral danda in west and Maddatkopatan in south.
Management Responsibility	Lekhnath Municipality; leased to Gunde Fisheries and Tourism Pvt. Ltd for fishery; Gunde Tal Conservation Committee.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 25.5 <sup>0</sup> C (Aug). <u>Avg. Min.</u> : 13.2 <sup>0</sup> C (Jan); <u>Avg. Rainfall</u> : 3710 mm/yr.
Area	<u>Core area</u> : 8.3 ha; Avg. Length: 500 m; Avg. Width: 250 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 2 - 0.5m; <u>Basin Area</u> : 74 ha.
Water Volume	0.12 X 10 <sup>6</sup> m <sup>3</sup> ; Inlet: 3 small streams; Outlet: Small drainage.
Water quality	Physicochemical parameter: Temp: 27.90 C; pH: 8; Conductivity: 62.8; DO: 6.6 mg/L; Alkalinity: 27.5 mg/L; Total hardness (as CaCO <sub>3</sub> ): 34.0 mg/L; BOD: 14.4 mg/L (Source: Dept. Env. Science, ASCOL Campus; 2012).
Soil feature	Grey; sandy silt texture.
Shocks/vulnerability	Sedimentation Encroachment.
Major aquatic plants	<u>Core area</u> : <i>Eichhornea crassipes</i> ; <i>Hydrilla verticellata</i> ; <i>Ceratophyllum demesum</i> ; <i>Nymphoides indica</i> ; <i>Potamogeton nodosus</i> .
Major plants in basin	<i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Ful); <i>Castanopsis indica</i> (LN: Katus; HT: Tr; LU: Ful); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tr); <i>Michelia champaca</i> (LN: Chap; HT: Tr; LU: Tr); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Tm); ... (LN: Tuni; HT: Tr; LU: Tr); ... (LN: Lakuri; HT: Tr; LU: ...).
Fish	<i>Acrossocheliu hexagonolepis</i> (LN: Katle; LU: Meat); <i>Barilius barna</i> (LN: Fageta; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat); <i>Catla Catla</i> (LN: Bhaykur; LU: Meat); <i>Puntius sarona</i> (LN: Kande; LU: Meat); <i>Puntius ticto</i> (LN: Bhite; LU: Meat); <i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat).

Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common lizard).
Birds	<i>Acridotheres tristis</i> (LN: Dangre); <i>Alcedo atthis</i> (Common Kingfisher); Owl, Waterduck, Watercock, <i>Ardea cinera</i> (Grey heron); <i>Butorides striatus</i> (Little heron); <i>Anas crecca</i> (Common Teal); <i>Bubulcus ibis</i> (Cattle Egret); <i>Anhinga melanogaster</i> (Darter); <i>Egretta garzetta</i> (Little Egret); Hawk.
Mammals	<i>Martes flicigula</i> (LN: Malsapro); ... (LN: Mirga); <i>Panthera pardus</i> (LN: Chitwa); <i>Oryctolagus sp</i> (LN: Kharayo); <i>Canis sp</i> (LN: Syal); <i>Vulpes bengalensis</i> (LN: Phyauro; EN: Fox).
Invasive alien species	Water hyacinth.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Maddatpatan; 200 m from lake; Main Trail: Bhudhibazar - Baral Danda - Jaldhalre road; 2 km from Budibazar to lake.
Land use	Forest land (15%); Agriculture (60%); Settlement (10%); Wetland (5%); Others (10%).
Demography	Population: 2771; Male: 1389; Female: 1382; HHs: 593; Ethnicity: Brahmin/Chhetri (70%); Janajati (15%); Dalit (5%); Others: (10%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	> 1300 no.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of Lake	<i>Gund</i> as rhizomatous plants dominating lakes is the basis to name lake as Gunde Tal.

### D. Ecosystem Goods/Services

Provisional services	Irrigating water supply; Water for livestock; Medicine; Fishery; Fodder/forage.
Cultural services	None.

### E. Restoration/Management

Structural management	Earthen dam supported by NLDC in 2011.
Non structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

Occasional visitors; No hotels; Moderate domestic tourism potential; Needs marketing and improvement in infrastructure and HR development.

### G. Lake condition

Excess growth rizomatous plants called *gund*; Degrading.



## 7. Kamal Pokhari

Code: P4-D3-007

Toposheet no: 2884-13A

Date of inventory: March, 2014

Compiler's name: Prakash Sigdel



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°13'00" N; <u>Lon.</u> : 84°00'35" E; <u>Alt.</u> : 850 masl.
Geographical position	Mahabharat Lekh; valley.
Administrative feature	WDR; Kaski district; Pokhara sub metropolitan city; Ward no. 13; Kaukhola gaon. (Current: Pokhara Sub Metropolitan City; Ward no. 11)
Boundary	<u>Core area</u> : Community forest in east; Barren terrace in north and west; Paddy field and settlements in south. <u>Basin Area</u> : Kau Danda in east and north; Karki Danda in west; Paddy field; Buddha phant and Kaukhola gaon in south.
Management Responsibility	Pokhara Sub-metropol; Kamal Pokhari Conservation Committee
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 25.5 <sup>0</sup> C (April). <u>Avg. Min.</u> : 13 <sup>0</sup> C. <u>Avg. Rainfall</u> : 3710 mm/yr
Area	<u>Core area</u> : 2 ha; Avg. Length: 175 m; Avg. Width: 60 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: 2 - 0.5 m <u>Basin Area</u> : 133 ha.
Water Volume	0.015 x 10 <sup>6</sup> m <sup>3</sup> ; Inlet: Kanhu Khola; Outlet: Khand Ko Kulo.
Water quality	<u>Physicochemical parameter</u> : Temp: 26 <sup>0</sup> C; pH: Slightly alkaline; Transparency: 1.5 m.
Soil feature	Dark color; sandy clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Leersia hexandra</i> (LN: Haade ghas); <i>Eichhornea crassipes</i> ; <i>Hydrilla verticellata</i> ; <i>Ceratophyllum demesum</i> ; <i>Nymphoides indica</i> ; <i>Potamogeton nodosus</i> .
Major plants in basin	<i>Castanopsis indica</i> (LN: Katus; HT: Tr; LU: Ful); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tr); <i>Michelia champaca</i> (LN: Chap; HT: Tr; LU: Tm).
Fish	<i>Barilius barna</i> (LN: Fageta; LU: Meat); <i>Catla Catla</i> (LN: Bhaykur; LU: Meat); <i>Puntios sarona</i> (LN: Kande; LU: Meat); <i>Puntius ticto</i> (LN: Bhite; LU: Meat); <i>Syprinus carpio</i> (LN: Common carp; LU: Meat).

Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common lizard).
Birds	<i>Acridotheres tristis</i> (LN: Dangre); <i>Alcedo atthis</i> (Common Kingfisher); Owl; Waterduck; Watercock; <i>Anas crecca</i> (Common Teal); <i>Bubulcus ibis</i> (Cattle Egret); <i>Anhinga melanogaster</i> (Darter); <i>Egretta garzetta</i> (Little Egret); Hawk.
Mammals	<i>Martes flicigula</i> (LN: Malsapro); <i>Oryctolagus sp</i> (LN: Kharayo); <i>Canis aureus</i> (LN: Syal); <i>Vulpes bengalensis</i> (LN: Phyauro; EN: Fox).
Invasive alien species	<i>Eichhornea crassipes</i> .
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Kaukhola gaon; 500 m from lake; Main Trail: Bhajpatan - Kamal trail; 1 km from lake.
Land use	Forest land (40%); Agriculture (20%); Grassland (10%); Settlement (20%); Wetland (5%); Others (5%).
Demography	Population: 5015; Male: 2495; Female: 2520; HHs: 1091; Ethnicity: Brahmin/Chhetri (50%); Janajati (40%); Dalit (5%); Other (5%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	> 500 no.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of Lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Irrigation; Water for livestock; Fodder/forage.
Cultural services	Nag temple; religious and recreational services.

### **E. Restoration/Management**

Structural management	None.
Non structural management	None.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

Occasional visitors; No tourism potential.

### **G. Lake condition**

Degrading.

## 8. Khaste Tal

Code: P4-D3-008

Toposheet no: 2884-13A

Date of inventory: March, 2014

Compiler's name: Prakash  
Sigdel



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°11'28"; <u>Lon.</u> : 84°02'40" E; <u>Alt.</u> : 750 masl.
Geographical position	Mahabharat Lekh; valley.
Administrative feature	WDR; Kaski district; Lekhnath Municipality; Ward no. 4; Gairigaon.
Boundary	(Current: Pokhara Sub Metropolitan City; Ward no. 26) <u>Core area</u> : Slope forest in east; Paddy field in west and south; Agriculture field (terrace) in north. <u>Basin Area</u> : Private forest in east; Jaldhare; Khetaghar and Rakhhi Danda in north; Gairigaon in west; Kharane Phant in south.
Management Responsibility	Lekhnath Municipality; leased to Khaste Udhyan Pvt. Ltd.; Neureni-Khaste lake Conservation Committee.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 25.5 <sup>0</sup> C (Aug). <u>Avg. Min.</u> : 13.2 <sup>0</sup> C (Jan); <u>Avg. Rainfall</u> : 3710 mm/yr.
Area	<u>Core area</u> : 9 ha; Avg. Length: 500 m; Avg. Width: 200 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: 2 - 0.5m; <u>Basin Area</u> : 319 ha.
Water Volume	None; Inlet: Chitra Khola, Noreko Khola and Thulo Khola; Outlet: Drainage to Gaduwa Khola.
Water quality	<u>Physicochemical parameter</u> : Temp: 29.3 <sup>0</sup> C; pH: 7.3; Conductivity: 27.2; DO: 6.5 mg/L; Alkalinity: 20.8 mg/L; Total hardness (as CaCO <sub>3</sub> ): 13.0 mg/L; BOD: 22.3 mg/L (Source: Dept. Env. Science, ASCOL Campus; 2012); Transparency: 1.5 m.
Soil feature	Dark color; sandy clay texture.
Shocks/vulnerability	Encroachment.
Major aquatic plants	<u>Core area</u> : <i>Leersia hexandra</i> (LN: Haade ghas); <i>Eichhornea crassipes</i> ; <i>Hydrilla verticellata</i> ; <i>Ceratophyllum demersum</i> ; <i>Nymphoides indica</i> ; <i>Potamogeton nodosus</i> .
Major plants in basin	<i>Castanopsis indica</i> (LN: Katus; HT: Tr; LU: Ful); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tr); <i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Tm).
Fish	<i>Acrossochilus hexagonolepis</i> (LN: Katle; LU: Meat); <i>Anguilla sp</i> (LN: Rajbam; LU: Meat); <i>Barilius barna</i> (LN: Fageta; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat); <i>Catla Catla</i> (LN: Bhaykur; LU: Meat); <i>Puntius sarona</i> (LN: Kande; LU: Meat); <i>Puntius ticto</i> (LN: Bhite; LU: Meat); <i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN:

Herpetofauna	Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat).
Birds	<i>Rana spp.</i> (LN: Bhyaguto); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common lizard).
Mammals	<i>Acridotheres tristis</i> (LN: Dangre); <i>Alcedo atthis</i> (Common Kingfisher); Owl; Waterduck, Watercock, <i>Ardea cinera</i> (Grey heron); <i>Bubulcus ibis</i> (Cattle Egret); <i>Anhinga melanogaster</i> (Darter); <i>Egretta garzetta</i> (Little Egret); Hawk.
Invasive alien species	<i>Martes flicigula</i> (LN: Malsapro); ... (LN: Mirga); <i>Panthera pardus</i> (LN: Chitwa); <i>Oryctolagus sp</i> (LN: Kharayo); <i>Canis sp</i> (LN: Syal); <i>Vulpes bengalensis</i> (LN: Phyauro; EN: Fox).
Endemic plant/animal	<i>Eichhornea crassipes</i> . None.

### C. Socio-Economy at Basin

Nearby settlement	Gairi gaon; 500 m from lake; Main Trail: Bhuddhibazar - Kharane Phant -Rakhi Dada trail; 2.5 km from Bhuddibazar to lake.
Land use	Forest land (15%); Grassland (5%); Agriculture (50%); Settlement (15%); Wetland (5%); Other (10%).
Demography	Population: 2771; Male: 1389; Female: 1382; HHs: 593; Ethnicity: Brahmin/Chhetri (65%); Janajati (30%); Other (10%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	> 1200 no.
Traditional production system	Terrace farming, conventional paddy plantation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of Lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Fishery; Fuelwood; Fodder/forage.
Cultural services	Tal Barahi temple; Religious, recreational and educational services. People take bath during <i>Ekadashi</i> ; <i>Purnima</i> ; <i>Ramnavami</i> ; <i>Solar eclipse and new year</i> .

### E. Restoration/Management

Structural management	Department of irrigation constructed water regulator for irrigation; Earthen dam improvement by NLCDC in 2013.
Non structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

Over 100 visitors a year; No hotels and tourism facilities; Moderate tourism potential; Needs promotional activities.

### G. Lake condition

Good.

## 9. Maidi Tal

Code: P4-D3-009

Toposheet no: 2884-13A

Date of inventory: March, 2014

Compiler's name: Prakash Sigdel



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 28°10'30" N; Lon.: 84°04'43" E; Alt.: 700 masl.

Geographical position

Mahabharat Lekh; valley.

Administrative feature

WDR; Kaski district; Lekhnath Municipality; Ward no. 9; Dandako Mukh.

Boundary

(Current: Pokhara Sub Metropolitan City; Ward no. 30)

Core area: Community forest in east, west and north; Paddy field and settlements in south.

Basin Area: Maidipakha Ban in east; Lamswara and Ban Pokhari villages in north; Payri Danda and Ryale Danda in west; and Dandako Mukh in south.

Management Responsibility

Lekhnath Municipality; Maidi Lake Conservation Committee.

Wetlands type

Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 25.5<sup>0</sup> C (Aug). Avg. Min.: 13.2<sup>0</sup> C (Jan); Avg. Rainfall: 3710 mm/yr.

Area

Core area: 1 (Marshy area exceed over 40 ha area); Avg. Length: 125 m; Avg. Width: 80 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 1.5 - 0.5m Basin Area: 122 ha.

Water Volume

0.1 x 10<sup>6</sup> m<sup>3</sup>; Inlet: Khadam Khola; Outlet: Drainage to Deurali Khola.

Water quality

Physicochemical parameter: Temp: 28.8<sup>0</sup> C; pH: 7.6; Conductivity: 36.5; DO: 6.8 mg/L; Alkalinity: 20.0 mg/L; Total hardness (as CaCO<sub>3</sub>): 29.5 mg/L; BOD: 4.4 mg/L (Source: Dept. Env. Science, ASCOL Campus; 2012); Transparency: Opaque (excess mud).

Soil feature

Grey color; sandy clay texture.

Shocks/vulnerability

Encroachment.

Major aquatic plants

Core area: *Oryza rufipogon* (LN: Jungali Dhan); Hygrorrhiza; *Leersia hexandra* (LN: Haade ghas).

Major plants in basin

*Schima wallichii* (LN: Chilaune; HT: Tr; LU: Ful); *Castanopsis indica* (LN: Katus; HT: Tr; LU: Ful); *Alnus nepalensis* (LN: Utish; HT: Tr; LU: Tm); *Michelia champaca* (LN: Chap; HT: Tr; LU: Tm); *Acacia catechu* (LN: Khayer; HT: Tr; LU: Tm).

Fish

*Acrossochelius hexagonolepis* (LN: Katle; LU: Meat); Barilius barna (LN: Fageta; LU: Meat); *Puntius sarona* (LN: Kande; LU: Meat); *Puntius ticto* (LN: Bhite; LU: Meat); *Mastecembelus armatus* (LN: Bam; LU: Meat).

Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad).
Birds	<i>Acridotheres tristis</i> (LN: Dangre); <i>Alcedo atthis</i> (Common Kingfisher); Owl; <i>Cinera</i> (Grey heron); <i>Butorides striatus</i> (Little heron); <i>Anas crecca</i> (Common Teal); <i>Bubulcus ibis</i> (Cattle Egret); <i>Anhinga melanogaster</i> (Darter); <i>Egretta garzetta</i> (Little Egret); Hawk.
Mammals	<i>Martes flicigula</i> (LN: Malsapro); ... (LN: Mirga); <i>Panthera pardus</i> (LN: Chitwa); <i>Oryctolagus sp</i> (LN: Kharayo); <i>Canis sp</i> (LN: Syal); <i>Vulpes bengalensis</i> (LN: Phyauro; EN: Fox).
Invasive alien species	Water Hyacinth.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Dada Mukh; 1 km from lake; Main Trail: Sisuwa - Lmsowara road; 2 km from Sisuwa Bazar.
Land use	Forest land (50%); Grassland (10%); Agriculture (20%); Settlement (10%); Wetland (5%); Others (5%).
Demography	Population: 3597; Male: 1796; Female: 1801; HHs: 725; Ethnicity: Brahmin/Chhetri (60%); Janajati (35%); Others (5%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	> 1300 no.
Traditional production system	Cinventional paddy plantation and terrace farming.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of Lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Water for livestock; Fuelwood; Fodder/forage.
Cultural services	Recreational/tourism services; Aesthetic and scenic services; Educational resource services.

### E. Restoration/Management

Structural management	None.
Non structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No tourism potential.

### G. Lake condition

Encroachment from south; Degrading.

## 10. Naya Pokhari

Code: P4-D3-010

Toposheet no: 2884-13B

Date of inventory: March 4, 2014

Compiler's name: Narendra  
Gautum, Aparajit Shrestha and  
Dipendra Sharma



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°11'06.59" N; <u>Lon.</u> : 84°10'19.18" E; <u>Alt.</u> : 1187 masl.
Geographical position	Mahabharat Lekh; Foot hill.
Administrative feature	WDR; Kaski district; Hansupar VDC; Ward no. 4; Naya pokhari. (Current: Rupa Rural Municipality; Ward no. 7)
Boundary	<u>Core area</u> : Forest in west and south; Road in east and north. <u>Basin Area</u> : Forest in all directions.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Palustrine; Emergent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 37.4° C (April). <u>Avg. Min.</u> : 1.8° C (Jan).
Area	<u>Core area</u> : 0.6 ha; Avg. Length: 90 m; Avg. Width: 40 m; Avg. Depth: 0.5 m; Max - Min Surface Water Level: 1.5 - 0.5 m; <u>Basin Area</u> : 7 ha.
Water Volume	Dry during survey period.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16°C; PH: 6; Transparency: non measurable during inventory
Soil feature	Dark color; sandy clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Ful); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm, Ful); <i>Michelia champaca</i> (LN: Chap; HT: Tr; LU: Tm, Ful); <i>Castanopsis indica</i> (LN: Katus; HT: Tr; LU: Fruit, Ful); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Rel).
Fish	None.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common lizard).
Birds	<i>Pycnonotus sp</i> (LN: Jurali); <i>Crovis splendens</i> (LN: Kaag); <i>Streptopelia decaccto</i> (LN: Dhikur); ... (LN: Lampuchhre); <i>Dicrurus macroceros</i> (LN: Chibe); ... (LN: Nyauli).

Mammals *Panthera pardus* (LN: Chitwa); *Ursus sp* (LN: Bhalu); *Martes flicigula* (LN: Malsapro); ... (LN: Mirga); ... (LN: Kharayo); *Macaca mulatta* (LN: Monkey); *Canis aureus* (LN: Syal).

Invasive alien species None.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Hansupar; 1 km from lake; Main Trail: Hansupar - Ditth gaon trail; 300 m from lake.

Land use Forest land (85%); Barren land (10%); Wetlands (5%)

Demography No settlements at basin.

Jurisdiction/ownership State.

Wetlands dependent community None

Livestock at basin None.

Traditional production system None.

Traditional water use practices None.

Cultural record None.

Genesis/origin of Lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Timber supply; Water for livestock.

Cultural services None.

### **E. Restoration/Management**

Structural management None.

Non structural management None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degraded.



## 11. Neureni Tal

Code: P4-D3-011

Toposheet no: 2884-13A

Date of inventory: March, 2014

Compiler's name: Prakash Sigdel



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°11'20" N; <u>Lon.</u> : 84°02'45" E; <u>Alt.</u> : 770 masl.
Geographical position	Mahabharat Lekh; Valley.
Administrative feature	WDR; Kaski district; Lekhnath Municipality; Ward no. 4; Kharane Phant.  (Current: Pokhara Sub Metropolitan City; Ward no. 26)
Boundary	<u>Core area</u> : Baral Danda forest in east; Paddy field of Kharane Phant in west; Earthen structure separating Khaste lake in north; Paddy field in south.  <u>Basin Area</u> : Forest patch in Paite and Baral Danda in east; Paddy field in west and south; Basin of Khaste lake in north.
Management Responsibility	Lekhnath Municipality; Leased to Swati Sadan School; Khaste-Neureni Lake Conservation Committee.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 25.5 <sup>0</sup> C (Aug). <u>Avg. Min.</u> : 13.2 <sup>0</sup> C (Jan); <u>Avg. Rainfall</u> : 3710 mm/yr.
Area	<u>Core area</u> : About 2 ha; Avg. Length: 200 m; Avg. Width: 150 m; Avg. Depth: 0.5 m; Max - Min Surface Water Level: 1 - 0.3 m; <u>Basin Area</u> : 43 ha.
Water Volume	0.015 x 10 <sup>6</sup> m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp: 27 <sup>0</sup> C; pH: 7.5; Conductivity: 47.0; DO: 5.9 mg/L; Alkalinity: 25.0 mg/L; Total hardness (as CaCO <sub>3</sub> ): 29.8 mg/L; BOD: 12.3 mg/L (Source: Dept. Env. Science, ASCOL Campus; 2012); Transparency: 0.5 m.
Soil feature	Grey color; sandy clay texture.
Shocks/vulnerability	Sedimentation.
Major aquatic plants	<u>Core area</u> : <i>Eichhornea crassipes</i> ; <i>Nymphoides indica</i> .
Major plants in basin	<i>Castanopsis indica</i> (LN: Katus; HT: Tr; LU: Ful); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tr); <i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Tm).
Fish	<i>Acrossochilus hexagonolepis</i> (LN: Katle; LU: Meat); <i>Anguilla sp</i> (LN: Rajbam; LU: Meat); <i>Barilius barna</i> (LN: Fageta; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat); <i>Catla Catla</i> (LN: Bhaykur; LU: Meat); <i>Puntios sarona</i> (LN: Kande; LU: Meat); <i>Puntius ticto</i> (LN: Bhite; LU: Meat); <i>Syprinus carpio</i> (LN:

	Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat).
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common lizard).
Birds	<i>Acridotheres tristis</i> (LN: Dangre); <i>Alcedo atthis</i> (Common Kingfisher); Owl; Waterduck, Watercock, <i>Ardea cinera</i> (Grey heron); <i>Bubulcus ibis</i> (Cattle Egret); <i>Anhinga melanogaster</i> (Darter); <i>Egretta garzetta</i> (Little Egret); Hawk.
Mammals	<i>Martes flicigula</i> (LN: Malsapro); ... (LN: Mirga); <i>Panthera pardus</i> (LN: Chitwa); <i>Oryctolagus sp</i> (LN: Kharayo); <i>Canis sp</i> (LN: Syal); <i>Vulpes bengalensis</i> (LN: Phyauro; EN: Fox).
Invasive alien species	<i>Eichhornea crassipes</i> .
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Gairi gaon; 500 m from lake; Main Trail: Bhuddhibazar - Kharane Phant -Rakhi Dada trail; 2.5 km from Bhuddibazar to lake.
Land use	Forest land (60%); Grassland (5%); Agriculture (10%); Settlement (15%); Wetland (5%); Wetland (5%).
Demography	Population: 2771; Male: 1389; Female: 1382; HHs: 593; Ethnicity: Brahmin/Chhetri (65%); Janajati (30%); Other (10%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	> 1200 no.
Traditional production system	Terrace farming and conventional paddy plantation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of Lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Fuelwood; Fodder/forage.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degraded.

## 12. Phewa Tal

Code: P4-D3-012

Toposheet no: 2883-16B

Date of inventory: March, 2014

Compiler's name: Prakash Sigdel and Shailendra Pokahrel



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 28°12'29" N; Lon.: 83°57'18.44" E; Alt.: 800 masl.

Geographical position

Mahabharat Lekh.

Administrative feature

WDR; Kaski district; Pokhara Sub - Metropolitan city - 6, Sarankot VDC; Kasikot, Chapakot, & Phumidi Bhumidi VDC.

Boundary

(Current: Pokhara Sub Metropolitan City; Ward no. 6)

Core area: Paddy field of Pame, Dharma and Lam Danda in east; Lake side, Ratna Mandir and Basundhara Park in west; Halanchowk - Pame road in north; Raniban/Mulbari in south.

Basin Area: Chapakot VDC in east; Ward 6 of Pokhara ub-Metropoli in west; Kaskikot and Sarankot VDCs in north; Pumdi Bhumbdi VDC in south.

Management Responsibility

Pokhara Sub-Metropoli; Phewa Lake Conservation Committee.

Wetlands type

Freshwater/natural; Riverine; Perennial.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 37.4° C (April). Avg. Min.: 13° C. Avg. Rainfall: 3710 mm/yr.

Area

Core area: 451 ha; Avg. Length: 3 km; Avg. Width: 2 km; Avg. Depth: 8 m; Max - Min Surface Water Level: 19 - 5 m; Basin Area: 12000 ha.

Water Volume

48 x 10<sup>6</sup> m<sup>3</sup>; Inlet: Harpan, Balaundi and Phirke Khola; Outlet: Devi's Falls.

Water quality

Physicochemical parameter: Temp: 27°C, pH: 9; DO: 5.2 mg/lt; Transparency: 1.5 m;

Soil feature

Grey; color; Sandy silt & clay texture.

Shocks/vulnerability

Siltation; Eutrophication; Encroachment. In 2032, lake breach once.

Major aquatic plants

Core area: *Oryza rufipogon* (LN: Jungali Dhan); *Hygrorhiza aristata*; *Leersia hexandra* (LN: Haade ghas); *Eichhornea Crassipes*, *Nelumbo nucifera*; *Ceratophyllum demesum*; *Vallisneria spiralis*; *Nymphoides indica*; *Potamogeton nodosus*; *Ipomea carnea*; *Trapa quadrispinosa*.

Major plants in basin

Rare, threatened, endangered orchids: *Apostasia wallichii*, *Cymbidium iridioides*, *Dendrobium densiflorum*, *D. fimbriatum*, *Liparis plantaginea*, *Bulbophyllum plyrhiza* *Brachycorythis obcordata* *Oberonia nepalensis*, *Papilionantheres* (CITES: I); *Schima wallichii* (LN: Chilaune; HT: Tr; LU: Ful); *Castanopsis indica* (LN: Katus; HT: Tr; LU: Ful); *Quercus sp* (LN: Khasru; HT: Tr; LU: Ful, Tm, Fd); *Michelia champaca* (LN: Chanp; HT: Tr; LU: Ful).

Fish

*Acrossochelius hexagonolepis* (LN: Katile; LU: Meat); *Barilius barna* (LN: Fageta; LU: Meat); *Tor tor* (LN: Mahaseer; LU: Meat); *Labeo rohita* (LN: Rahu; LU: Meat); *Catla Catla* (LN: Bhaykur; LU: Meat); *Puntios sarona* (LN: Kande; LU: Meat);

Herpetofauna	<i>Puntius ticto</i> (LN: Bhitte; LU: Meat); <i>Tor patitora</i> (LN: Sahar; LU: Meat). <i>Rana spp.</i> (LN: Bhyaguto); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad); <i>Trimeresurus</i> spp. (LN: ...; EN: Viper).
Bird	... (LN: Karyang Kurung; EN: Siberian Crane); <i>Alcedo atthis</i> (Kingfisher); <i>Turdoides nepalensis</i> (Spiny Babbler); <i>Prnoepyga immaculate</i> , <i>Wren babbler</i> ; <i>Aythya baeri</i> (Baer's Pochard); <i>Aythya nyroca</i> (Ferruginous Duck); <i>Bubulcus ibis</i> (Cattle Egret); <i>Anhinga melanogaster</i> (Darter); <i>Casmerodius albus</i> (Great Egret); <i>Egretta garzetta</i> (Little Egret); <i>Rhodonessa rufina</i> (Red - crested Pochard); <i>Anas falcate</i> (Flacatted Duck); <i>Sarkidiornis clangula</i> (Comb Duck); Owl; Pond herons; Hawk; Teal.
Mammals	<i>Martes flicigula</i> (LN: Malsapro); <i>Moschus sp</i> (LN: Mirga); <i>Panthera pardus</i> (LN: Chitwa); <i>Oryctolagus sp</i> (LN: Kharayo); <i>Canis sp</i> (LN: Syal); <i>Manis Pendactyka</i> (LN: Salak; EN: Pangolin); <i>Hystrix indica</i> (LN: Dumsi; EN: Percupine).
Invasive alien species	Water hyacinth.
Endemic plant/animal	Endemic orchids: <i>Oberonia nepalensis</i> , <i>Oberonia eridifolia</i> , <i>Papilionanthe teres sp.</i> , <i>Rhynchostylis retusa</i> .

### C. Socio-Economy at Basin

Nearby settlement	Halanchowk; 100 m from lake; Main Trail: Prithvi chowk – Halanchowk road; 3.5 km from Pritivichowk.
Land use	Forest land (44%); Agriculture (39%); Shrubland (3%); Settlement (5%); Barren land (5%); Wetland (4%).
Demography	Population: About 31, 000; Male: 14,000; Female: 17,000; HHs: 5614; Segregated pop <sup>n</sup> data of wards of Sub metropolity not available (Entire population of watershed is reported to be 0.14 million); Ethnicity: Janajati (14%; Brahmin (48%); Dalit (27%); Others (11%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	Jalahari; >65 HHs most of them operating boat.
Livestock at basin	> 11,000.
Traditional production system	Terrace farming and conventional paddy plantation.
Traditional water use practices	Famer managed irrigation canal in VDCs.
Cultural record	Barahi temple at the island of lake.
Genesis/origin of Lake	Dammed to Harpan Khola in Past.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Electricity; Water for livestock; Commercial fish farming; Medicine; Fuelwood; Fodder/forage.
Cultural services	Aesthetic and scenic; Recreational (boating/water sport) and educational services; Relegious site (Barahi temple).

### E. Restoration/Management

Structural management	Concrete dam (Pardi); Lakeshore & foot trail in north.
Non structural management	None.
Conservation plan	Conservation Plan of Phewa available.
Monitoring plan	Available.

### F. Tourism information

> 0.3 million annual visitors; Many good/star hotels; Travel agencies and market centers in place; Airport/vehicle connectivity to Kathmandu. About 4 km from lakeside to airport; High tourism potential.

### G. Lake condition

Degrading.

### 13. Ranipokhari (Bhachok)

Code: P4-D3-013

Toposheet no: 2884-13B

Date of inventory: 7<sup>th</sup> March,  
2014

Compiler's name: Narendra  
Gautam, Aparajit Shrestha and  
Dipendra Sharma



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°14'29.39"N; <u>Lon.</u> : 84°9'19.74"E; <u>Alt.</u> : 1340 masl.
Geographical position	Mahabharat Lekh; Slope.
Administrative feature	WDR; Kaski district; Bhachok VDC; Wards. 2, 3; Ranipokhari. (Current: Madi Rural Municipality; Ward no. 10)
Boundary	<u>Core area</u> : Playground in west; Settlements in east; Barren land in north; Agricultural land and health post in south. <u>Basin Area</u> : Barren land in west and south; Settlements in east; Agricultural land in north.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Palustrine: Emergent

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 25 <sup>o</sup> C (June). <u>Avg. Min.</u> : 4.5 <sup>o</sup> C (Jan); <u>Avg. Rainfall</u> : 1711.9 ml (July). (Source: District Profile Kaski, Lumle Agro Metrological station 2004).
Area	<u>Core area</u> : Approx. 1 ha; Avg. Length: 90 m; Avg. Width: 40 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 1.5 - 0.5 m; <u>Basin Area</u> : >30 ha.
Water Volume	4000 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : <u>Temp.</u> : 17 <sup>o</sup> C; pH: 6. Transparency: 1 m.
Soil feature	Dark color; silty clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Musa aciminata</i> (LN: Kera; HT: Sh; LU: Fr); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Rel); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm, Ful); <i>Cedrella toona</i> (LN: Tuni; HT: Tr; LU: Ful, Fd); <i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Ful).
Fish	<i>Syprinus carpio</i> (LN: common carp; LU: Meat); <i>Labeo rohita</i> (LN: Rohu; LU: Meat); <i>Cirrhinus migala</i> (LN: Naini carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat).
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common lizard).

Birds *Pycnonotus sp* (LN: Jureli); *Crocvus splendens* (LN: Kaag); *Streptopelia decaocto* (LN: Dhikur); *Acridotheres tristis* (LN: Dangre); ... (LN: Lamphucre); *Dicrurus macroceros* (LN: Chibe).

Mammals *Macaca mulatta* (LN: Bandar; EN: Monkey); *Martes flicigula* (LN: Malsapro); ... (LN: Mirga); *Panthera pardus* (LN: Chitwa); ... (LN: Kharayo); *Canis aureus* (LN: Syal).

Invasive alien species None.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Bhachok village 100m; Main Trail: Rakhi Mijure dada motor bato adjoining.

Land use Forest land (35%); Agriculture (35%); Settlement (5%)  
Barren land (15%); Wetlands (10%).

Demography Population: 15; Male: 05; Female: 10; HHs: 2; Ethnicity: *Gurung* (100%); Major Religion: Hindu.

Jurisdiction/ownership State.

Wetlands dependent community School.

Livestock at basin >15 no.

Traditional production system None.

Traditional water use practices None.

Cultural record None.

Genesis/origin of Lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Recreational; Water for livestock; Fuel wood; Fodder/forage.

Cultural services None.

### **E. Restoration/Management**

Structural management None.

Non structural management None.

Conservation plan None.

Monitoring plan None.

### **F. Tourism information**

Occasional local visitors; low tourism potential; Needs marketing for village tourism.

### **G. Lake condition**

Degrading.

## 14. Rupa Tal

Code: P4-D3-014

Toposheet no: 2884-13A

Date of inventory: March, 2014

Compiler's name: Prakash Sigdel  
and Shailendra Pokharel



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°08'02" N; <u>Lon.</u> : 84°06'00" E; <u>Alt.</u> : 625-1285 masl.
Geographical position	Mahabharat Lekh; Valley.
Administrative feature	WDR; Kaski district; Lekhnath Municipality Ward no. 10, 11, 14 & Rupakot VDC 6, 8; Kholacheu Bazar.  (Current: Pokhara Sub Metropolitan City; Ward no. 32)
Boundary	<u>Core area</u> : Chettripakha and terrace field in east; Jamunkuna in west; Bhyagutepani & Sanukuna in north; Ghimerekuna, Marshy/paddy field in south. <u>Basin Area</u> : Musurepakha in east; Bhimsen Danada, Kirakhore and Bhangara in west; Sundare Danda, Talbesi and Syaule Bazar in north; Satmuhane and Bhadaure Chautara in south.
Management Responsibility	Lekhnath Municipality; Rupa Lake Restoration and Fishery Cooperative; Rupa Lake Conservation Committee.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 25.5 <sup>0</sup> C (Aug). <u>Avg. Min.</u> : 13.2 <sup>0</sup> C (Jan); <u>Avg. Rainfall</u> : 3710 mm/yr.
Area	<u>Core area</u> : 107 ha; Avg. Length: 2300 m; Avg. Width: 300 m; Avg. Depth: 3 m; Max - Min Surface Water Level: 6 - 2m <u>Basin Area</u> : 2722 ha.
Water Volume	2 x10 <sup>6</sup> m <sup>3</sup> ; Inlet: Khurlung & Dhovan Khola; Outlet: Talbesi Khola.
Water quality	<u>Physicochemical parameter</u> : Temp: 26.5 <sup>0</sup> C; pH: 7.4; Conductivity: 33.6; DO: 6.6 mg/L; Alkalinity: 20.8 mg/L; Total hardness (as CaCO <sub>3</sub> ): 18.7 mg/L; BOD: 14.1 mg/L (Source: Dept. Env. Science, ASCOL Campus; 2012).
Soil feature	Grey; sandy silt & clayey texture.
Shocks/vulnerability	Siltation; Encroachment.
Major aquatic plants	<u>Core area</u> : <i>Oryza rufipogon</i> (LN: Jungali Dhan); <i>Oryza nivara</i> ; <i>Hygrophiza aristata</i> ; <i>Leersia hexandra</i> (LN: Haade ghas); <i>Eichhornea Crassipes</i> , <i>Nelumbo nucifera</i> ; <i>Ceratophyllum demesum</i> ; <i>Nymphoides indica</i> ; <i>Potamogeton nodosus</i> ; <i>Trapa quadrispinosa</i> ; <i>Persicaria barbata</i> .
Major plants in basin	<i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Ful); <i>Castanopsis indica</i> (LN: Katus; HT: Tr; LU: Ful); <i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tr); <i>Michelia champaca</i> (LN: Chap; HT: Tr; LU: Tm); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Tm).
Fish	<i>Acrossochelius hexagonolepis</i> (LN: Katle; LU: Meat); <i>Anguilla sp</i> (LN: Rajbam; LU: Meat); <i>Barilius barna</i> (LN: Fageta; LU: Meat); <i>Tor tor</i> (LN: Mahaseer; LU: Meat); <i>Catla Catla</i> (LN: Bhaykur; LU: Meat); <i>Puntius saron</i> (LN: Kande; LU: Meat); <i>Puntius ticto</i> (LN: Bhte; LU: Meat); <i>Tor patitora</i> (LN: Sahar; LU: Meat); <i>Mastecembelus armatus</i> (LN: Bam; LU: Meat); <i>Syprinus carpio</i> (LN: Common carp; LU: Meat);

Herpetofauna	<i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat).
Birds	<i>Rana spp.</i> (LN: Bhyaguto); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad).
Mammals	... (LN: Karyang Kurung; EN: Siberian Crane); <i>Alcedo atthis</i> (Kingfisher) <i>Turdoides nepalensis</i> (Spiny babbler); <i>Pnoepyga immaculate</i> , <i>Wren babbler</i> ; <i>Aythya baeri</i> (Baer's Pochard); <i>Aythya nyroca</i> (Ferruginous Duck); <i>Bubulcus ibis</i> (Cattle Egret); <i>Anhinga melanogaster</i> (Darter); <i>Casmerodius albus</i> (Great Egret); <i>Egretta garzetta</i> (Little Egret); <i>Rhodonessa rufina</i> (Red-crested Pochard); <i>Anas falcate</i> (Flacatted Duck); <i>Sarkidiornis clangula</i> (Comb Duck); ); Owl, Hawk, Teal.
Invasive alien species	<i>Lutra lutra</i> (LN: Oot; EN: Common otter); <i>Martes flicigula</i> (LN: Malsapro); ... (LN: Mirga); <i>Panthera pardus</i> (LN: Chitwa); <i>Canis aureus</i> (LN: Syal); <i>Hystrix indica</i> (LN: Dumsi; EN: Percupine); <i>Felis chaus</i> (LN: Jungali Biralo).
Endemic plant/animal	<i>Eichhornea Crassipes</i> . None.

### C. Socio-Economy at Basin

Nearby settlement	Talpari and Kholacheu; 1.5 km from lake (Rupa cooperative) to Kholacheu; Main Trail: Kholacheu - Jamunkuna - Bhangara trail; > 2 km from Jamunkuna to Kholacheu.
Land use	Forest land (40%); Agriculture (30%); Settlement (20%); Wetland (5%); Others (5%).
Demography	Population: 5341; Male: 2677; Female: 2664; HHs: 1116; Municipality pop <sup>n</sup> not avialble. Ethnicity: Janajati (30%); Brahmin/Chhetri (45%); Dalit (5%); Others (20%). Major Religion: Hinduism.
Jurisdiction/ownership	State.
Wetlands dependent community	Jalahari; 18 HHs; Traditional skill is not in use.
Livestock at basin	>2000 no.
Traditional production system	Terrace farming and conventional paddy plantation.
Traditional water use practices	Farmanaged canal in the upstream of lake.
Cultural record	One temple at appox. 1 km up to the Jamunkuna.
Genesis/origin of Lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Commercial fishery; Water for livestock and domestic use; irrigation; Medicine; Fuelwood; Fodder/forage.
Cultural services	None.

### E. Restoration/Management

Structural management	Tekking trail; Trail side plantation.
Non - structural management	Volunteer restriction for disposals.
Conservation plan	Conservation Plan of Rupa and Begnas.
Monitoring plan	No plan, but Rupa cooperative monitors activities.

### F. Tourism information

>5000 annual visitors; Tea shops at Kolacheu Bazar; NoFresidential hotels and loadges; Home stay facilities in progress; Moderate potential for tourims; Needs infrastructure & HRR development and promotional activites.

### G. Lake condition

Degrading; Siltation; Encroachment.



## 15. Sani Pokhari (Panchase)

Code: P4-D3-015

Toposheet no: 2883-16A

Date of inventory: March 6, 2014

Compiler's name: Narendra  
Gautam, Aparajit Shrestha and  
Dipendra Sharma



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°13'10" N; <u>Lon.</u> 83°48'42" E; <u>Alt.</u> : 2067 masl.
Geographical position	Mahabharat Lekh; Slope.
Administrative feature	WDR; Kaski district; Vhadure Tamang VDC; Ward no. 9; Bhanjyang.
Boundary	<u>Core area</u> : Forest in west; Barren land in south, east and north. <u>Basin Area</u> : Forest in all directions.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Palustrine; Emergent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 25° C (June). <u>Avg. Min.</u> : 4.5° C (Jan); <u>Avg. Rainfall</u> : 1711.9 ml (July). (Source: District Profile Kaski, Lumle Agro Metrological station 2004).
Area	<u>Core area</u> : 0.5 ha; Avg. Length: 70 m; Avg. Width: 40 m; Avg. Depth: 0.5 m; Max - Min Surface Water Level: 1 - 0.25 m; <u>Basin Area</u> : 6 ha.
Water Volume	2000 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16° C; pH: 6; Trransparency: non measurable during inventory.
Soil feature	Dark color; Silty clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	Scima wallichii (LN: Chilaune; HT: Tr; LU: Tm); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tr); <i>Michelia champaca</i> (LN: Chap; HT: Tr; LU: Tm); ; HT: Tr; LU: Tm); <i>Cedrella toona</i> (LN: Tuni; HT: Tr; LU: Ful, Fd); <i>Rhododendron arboreum</i> (LN: Laliguras; HT: Tr; LU: Ful).
Fish	None
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Trimerserus sp</i> (EN: Viper).
Birds	<i>Pycnonotus sp</i> (LN: Jureli); <i>Crovis sp</i> (LN: Kaag); <i>Streptopelia decaocto</i> (LN: Dhikur); ... (LN: Lampuchhre); <i>Dicrurus macreoceros</i> (LN: Chibe).

Mammals ... (LN: Bhalu); *Martes flicigula* (LN: Malsapro); ... (LN: Mirga); *Panthera pardus* (LN: Chitwa); ... (LN: Kharayo); *Macaca mulatta* (LN: Bandar EN: Monkey); *Canis aureus* (LN: Syal).

Invasive alien species None.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Bhangyang village; 100 m from lake; Main Trail: Panchase village trail; 300 m from lake.

Land use Forest land (90%); Grassland (10%).

Demography No settlement at basin area.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin None.

Traditional production system None.

Traditional water use practices None.

Cultural record None.

Genesis/origin of Lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Wildlife habitat.

Cultural services None.

### **E. Restoration/Management**

Structural management None.

Non structural management None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degraded.

## 16. Siddhi Pokhari (Panchase)

Code: P4-D3-016

Toposheet no: 2883-16A

Date of inventory: 6<sup>th</sup> March, 2014

Compiler's name: Narendra Gautam, Aparajit Shrestha and Dipendra Sharma



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28013'10" N; <u>Lon.</u> 83048' 42" E; <u>Alt.</u> : 2067 masl.
Geographical position	Mahabharat Lekh; Flat.
Administrative feature	WDR; Kaski district; Vhadure Tamanga VDC; Ward no. 9; Bhanjyang.
Boundary	<u>Core area</u> : Forest in west and north; Barren land in south and east. <u>Basin Area</u> : Forest in west and east; Settlement in north and south.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Palustrine; emergent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 25 <sup>0</sup> C (June). <u>Avg. Min.</u> : 4.5 <sup>0</sup> C (Jan); <u>Avg. Rainfall</u> : 1711.9 ml (July). (Source: District Profile Kaski, Lumle Agro Metrological station 2004).
Area	<u>Core area</u> : 0.5 ha; Avg. Length: 100 m; Avg. Width: 40 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: 1.5 - 0.5m; <u>Basin Area</u> : 6 ha.
Water Volume	2000 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 14.0 C; pH: 6; Transpanency: 0.8 m.
Soil feature	Dark color; Silty clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Tm); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tr); <i>Michelia champaca</i> (LN: Chap; HT: Tr; LU: Tm); ; HT: Tr; LU: Tm); <i>Cedrella toona</i> (LN: Tuni; HT: Tr; LU: Ful, Fd); <i>Rhododendron arboreum</i> (LN: Laliguras; HT: Tr; LU: Inscent sticks, Ful).
Fish	None.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto).

Birds *Pycnonotus sp* (LN: Jureli); *Crovis splendens* (LN: Kaag); *Streptopelia decaccto* (LN: Dhikur); ... (LN: Lampuchhre); *Dicrurus macroceros* (LN: Chibe).

Mammals *Canis aureus* (LN: Syal); *Ursus sp* (LN: Bhalu); *Martes flicigula* (LN: Malsapro); ... (LN: Mirga); *Panthera pardus* (LN: Chitwa); ... (LN: Kharayo); *Macaca mulatta* (LN: Bandar; EN: Monkey).

Invasive alien species None.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Bhangyang village; 100 m from lake; Main Trail: Panchase village trail; 300 m from lake

Land use Forest land (60%); Grassland (10%); Settlement (5%) Agriculture (20%); Wetland (5%)

Demography Population: 7; Male: 3; Female: 4; HHS: 3; *Gurung* (100%); Major Religion: Hindu.

Jurisdiction/ownership State.

Wetlands dependent community None

Livestock at basin > 2.

Traditional production system None.

Traditional water use practices None.

Cultural record None.

Genesis/origin of Lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Water for livestock; Medicine Fuel wood; Fodder/forage.

Cultural services None

### **E. Restoration/Management**

Structural management None

Non structural management None.

Conservation plan None

Monitoring plan None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degrading.

## 17. Thulo Pokhari (Kasani Dada)

Code: P4-D3-017

Toposheet no: 2884-13B

Date of inventory: 3<sup>rd</sup> March, 2014

Compiler's name: Narendra Gautam, Aparajit Shrestha and Dipendra Sharma



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28° 08'58.38"N; <u>Lon.</u> : 84°09'29.84"E; <u>Alt.</u> : 1236 masl.
Geographical position	Mahabharat Lekh; Flat.
Administrative feature	WDR; Kaski district; Rupakot VDC; Ward no. 2, 3; Kasani Dada. (Current: Rupa Rural Municipality; Ward no. 6)
Boundary	<u>Core area</u> : Forest in all directions. <u>Basin Area</u> : Forest in all directions.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Lacustrine; seasonal.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 25° C (June). <u>Avg. Min.</u> : 4.5° C (Jan); <u>Avg. Rainfall</u> : 1711.9 ml (July). (Source: District Profile Kaski, Lumle Agro Metrological station 2004).
Area	<u>Core area</u> : Approx 1 ha; Avg. Length: 70 m; Avg. Width: 45 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: 1.5 - 0.5 m <u>Basin Area</u> : 4 ha.
Water Volume	None
Water quality	<u>Physicochemical parameter</u> : Temp.: 17° C; pH: 6; Transparency: non measurable during inventory.
Soil feature	Dark; silty clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: rel tree); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm, Ful); <i>Michelia champaca</i> (LN: Chanp; HT: Tr; LU: Tm, Ful); <i>Acacia catechu</i> (LN: Khayer; HT: Tr; LU: Tm, ful); <i>Cedrella toona</i> (LN: Tuni; HT: Tr; LU: Ful, Fd); <i>Rhododendron arboreum</i> (LN: Laliguras; HT: Tr; LU: Inscent sticks, Ful).
Fish	None.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto).
Birds	<i>Pycnonotus sp</i> (LN: Jureli); <i>Crovis splendens</i> (LN: Kaag); <i>Streptopelia decaocto</i> (LN: Dhikur); ... (LN: Lamphucre); <i>Dicrurus macroceros</i> (LN: Chibe).

Mammals *Macaca mulatta* (LN: Bandar; EN: Monkey); *Ursus sp* (LN: Bhalu); *Martes flicigula* (LN: Malsapro); ... (LN: Mirga); *Panthera pardus* (LN: Chitwa); ... (LN: Kharayo); *Canis aureus* (LN: Syal).

Invasive alien species None.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Kasani gaon; 2 km from lake; Main Trail: Rupakot road; kake 3 km from main trail.

Land use Forest land (80%); Grassland (15%); Wetlands (5%).

Demography No settlements at the basin.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin None.

Traditional production system None.

Traditional water use practices None.

Cultural record None.

Genesis/origin of Lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Water for livestock; Fuel wood; Fodder/forage.

Cultural services None.

### **E. Restoration/Management**

Structural management None.

None structural management None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degraded.

## Annex-35: Inventory of lakes in Lamjung district

### 1. Damrang Pokhari

Code: P4-D4-001

Toposheet no: 2884-14B

Date of inventory: 21<sup>st</sup> February, 2014

Compiler's name: Narendra Gautum, Aparajit Shrestha and Dipendra Sharma.



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°13'36.545"N; <u>Lon.</u> : 84°29'39.677" E; <u>Alt.</u> : 1900 masl.
Geographical position	Mahabharat Lekh; Slope.
Administrative feature	WDR; Lamjung district; Dhodeni VDC; Ward no. 1; Damrang Madi Danda. (Current: Dordi Municipality; Ward no. 6)
Boundary	<u>Core area</u> : Forest in west, east and north; Barren land in south. <u>Basin Area</u> : Forest in west, east and north; Barren land in south.
Management Responsibility	VDC.
Wetlands type	None.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 30.7° C (May/June). <u>Avg. Min.</u> : 6.7° C (Jan); Average Rainfall: > 3000 mm.
Area	<u>Core area</u> : About 1 ha; Avg. Length: 110 m; Avg. Width: 60 m; Max - Min Surface Water Level: 1.5 - 0.1 m; <u>Basin Area</u> : 20 ha.
Water Volume	Dry during survey period; NA; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Dry during inventory.
Soil feature	Dark color; sandy clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Rhodendron arboreum</i> (LN: Laliguras; HT: Tr; LU: Ful); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm, Ful); <i>Rubus ellipticus</i> (LN: Ainselu; HT: Tr; LU: Fruit); ... (LN: Falat); ... (LN: Patuka); <i>Myrsine semiserrata</i> (LN: Kalikath).
Fish	None.
Herpetofauna	None.

Birds *Pycnonotus sp* (LN: Jureli); *Crovis splendens* (LN: Kaag); *Streptopelia decaocto* (LN: Dhikur); *Acridotheres tristis* (LN: Dangre) ... (LN: Lampuchhre); *Dicrurus macroceros* (LN: Chibe).

Mammals *Macaca mulatta* (LN: Monkey); *Ursus sp* (LN: Bhalu); *Martes flicigula* (LN: Malsapro); ... (LN: Mirga); *Panthera pardus* (LN: Chitwa); ... (LN: Kharayo); *Canis aureus* (LN: Syal).

Invasive alien species None.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Nauthat; 6 km from lake; Main Trail: Nauthar Motor Road; 11 km from lake.

Land use Forest land (100%).

Demography No settlements at basin.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin None.

Traditional production system None.

Traditional water use practices None.

Cultural record None.

Genesis/origin of Lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Fuel wood; Fodder/forage.

Cultural services None.

### **E. Restoration/Management**

Structural management None.

None.-structural management None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degraded.



## 2. Deurali Sano Pokhari

Code: P4-D4-002

Toposheet no: 2884-15A

Date of inventory: 22<sup>nd</sup> February, 2014

Compiler's name: Narendra, Aparajit and Dipendra



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°10'41.71"N; <u>Lon.</u> : 84° 34'4.36"E; <u>Alt.</u> : 2050 masl.
Geographical position	Mahabharat Lekh; Slope.
Administrative feature	WDR; Lamjung district; Ilampokhari VDC; Ward no. 3; Deurali. (Current: Dudhpokhari Rural Municipality; Ward no. 4)
Boundary	<u>Core area</u> : Residential in west and north; Forest in east and south. <u>Basin Area</u> : Forest in west, east and south; cultivated land in north.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Palustrine; Emergent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 30.7° C (May/June). <u>Avg. Min.</u> : 6.7° C (Jan); Average rainfall: >2800 mm
Area	<u>Core area</u> : 0.4 ha; Avg. Length: 80 m; Avg. Width: 40 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 2 - 0.5 m <u>Basin Area</u> : 25 ha.
Water Volume	2500 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 9° C; pH: 6; Transparency: 0.5 m
Soil feature	Dark; sandy clay texture.
Shocks/vulnerability	Eutrophication.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Rhododendrons sp</i> (LN: Laliguras; HT: Tr; LU: Ful); <i>Daphne bholua</i> (LN: Lokta); <i>Myrsine semiserrata</i> (LN: Kalikath); <i>Eurya acuminata</i> (LN: Jhangane).
Fish	None.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto).
Birds	<i>Pycnonotus sp</i> (LN: Jureli); <i>Corvus splendens</i> (LN: Kaag); <i>Streptopelia decaocto</i> (LN: Dhikur); <i>Cuculus sp</i> (LN: Koili)
Mammals	<i>Macaca mulatta</i> (LN: Monkey); <i>Ursus sp</i> (LN: Bhalu); <i>Martes flicigula</i> (LN: Malsapro); ... (LN: Mirga); <i>Panthera pardus</i> (LN: Chitwa); ... (LN: Kharayo); <i>Canis aureus</i> (LN: Syal).

Invasive alien species None.  
Endemic plant/animal None.bi

### **C. Socio-Economy at Basin**

Nearby settlement Deurali; 60 m from lake; Main Trail: Jorbisaune - Taji Road; 30 m from main trail.  
Land use Forest land (60%); Agriculture (30%); Settlement (10%).  
Demography Population: 10; Male: 4; Female: 6; HHs: 2; Ethnicity: Tamang (100%); Major Religion: Buddhist.  
Jurisdiction/ownership State.  
Wetlands dependent community None.  
Livestock at basin > 10 no.  
Traditional production system None.  
Traditional water use practices None.  
Cultural record None.  
Genesis/origin of lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Water for livestock; Medicine; Fuel wood; Fodder/forage.  
Cultural services None.

### **E. Restoration/Management**

Structural management None.  
Non structural management None.  
Conservation plan None.  
Monitoring plan None.

### **F. Tourism information**

No visitors; No tourism potential.

### **G. Lake condition**

Degrading.

### 3. Deurali Thulo Pokhari

Code: P4-D4-003

Toposheet no: 2884-15A

Date of inventory: 22<sup>nd</sup> February, 2014

Compiler's name: Narendra Gautum, Aparajit Shrestha and Dipendra Sharma



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°10'40.55"N; <u>Lon.</u> : 84°34'14.14"E; <u>Alt.</u> : 2050 masl.
Geographical position	Mahabharat Lekh; Valley.
Administrative feature	WDR; Lamjung district; Ilampokhari VDC; Ward no. 9; Deurali. (Current: Dudhpokhari Rural Municipality; Ward no. 4)
Boundary	<u>Core area</u> : Forest in west; Barren land in east, west and south. <u>Basin Area</u> : Settlement area in west, east and north; Agricultural land in south.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Palustrine; Emergent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 30.7 <sup>o</sup> C (May/June). <u>Avg. Min.</u> : 6.7 <sup>o</sup> C (Jan); Average Rainfall: > 2800 mm
Area	<u>Core area</u> : About 1 ha; Avg. Length: 80 m; Avg. Width: 40 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: 1/5 - 0.5 m; <u>Basin Area</u> : 10 ha.
Water Volume	2500 m <sup>3</sup> ; Inlet: None; Outlet: Small drainage.
Water quality	<u>Physicochemical parameter</u> : Temp.: 9 <sup>o</sup> C; pH: 6; Transparency: 0.3 m.
Soil feature	Dark color; sandy clay texture.
Shocks/vulnerability	None. Exposed to high eutrophication from forest.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Rhodendron arboreum</i> (LN: Laliguras; HT: Tr; LU: Ful); <i>Daphne bholua</i> (LN: Lokta); <i>Myrsine semiserrata</i> (LN: Kalikath); <i>Eurya acuminata</i> (LN: Jhangane).
Fish	None.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto).
Birds	<i>Pycnonotus sp</i> (LN: Jureli); <i>Crovis splendens</i> (LN: Kaag); <i>Streptopelia decaocto</i> (LN: Dhikur); <i>Cuculus sp</i> (LN: Koili)
Mammals	<i>Macaca mulatta</i> (LN: Monkey); <i>Ursus sp</i> (LN: Bhalu); <i>Martes flicigula</i> (LN: Malsapro); ... (LN: Mirga); <i>Panthera pardus</i> (LN: Chitwa); ... (LN: Kharayo); <i>Canis aureus</i> (LN: Syal).
Invasive alien species	None.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Deurali; 60 m from lake; Main trail: Deurali to lake trail; 1 km from main trail.

Land use Forest land (64%); Agriculture (25%); Settlement (10%); Wetlands (1%).

Demography Population: 10; Male: 4; Female: 6; HHs: 2; Ethnicity: Janajati (100%); Major Religion: Buddhist.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin None.

Traditional production system None.

Traditional water use practices None.

Cultural record None.

Genesis/origin of Lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Water for livestock for summer grazing for downstream livestock; Medicine; Fuel wood; Fodder/forage.

Cultural services None.

### **E. Restoration/Management**

Structural management None.

Non structural management None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

#### 4. Ilam Pokhari

Code: P4-D4-004

Toposheet no: 2884-15A

Date of inventory: 22<sup>nd</sup> February, 2014

Compiler's name: Narendra, Aparajit and Dipendra



##### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°11'19.65"N; <u>Lon.</u> : 84°33'29.67"E; <u>Alt.</u> : 2157 masl.
Geographical position	Mahabharat Lekh.; Flat
Administrative feature	WDR; Lamjung district; Ilampokhari VDC; Ward no. 3; Ilam pokhari. (Current: Dudhpokhari Rural Municipality; Ward no. 5)
Boundary	<u>Core area</u> : Temple in south; Forest in west, east and north. <u>Basin Area</u> : Forests in all directions.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Palustrine; Emergent.

##### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 30.7 <sup>o</sup> C (May/June). <u>Avg. Min.</u> : 6.7 <sup>o</sup> C (Jan); Average Rainfall: > 2800 mm.
Area	<u>Core area</u> : 1.5 ha; Avg. Length: 120 m; Avg. Width: 40 m; Avg. Depth: 2.5 m; Max - Min Surface Water Level: 2 - 1 m. <u>Basin Area</u> : 20 ha.
Water Volume	8000 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physico-chemical characters</u> : Temp.: 16 <sup>o</sup> C; pH: 6; Transparency: 0.5 m
Soil feature	Dark color; sandy clay.
Shocks/vulnerability	Eutrophication.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Pinus wallichiana</i> (LN: Salla; LU; Ful/Tm); <i>Rhododendron arboreum</i> (LU: Laliguras; HT: Tr; LU; Med/Ful).
Fish	None
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto).
Birds	<i>Cuculus sp</i> (LN: Koili); <i>Streptopelia deccaocto</i> (LN: Dhukur; ON: 3; LU: Meat); <i>Corvus splendens</i> (LN: Crow); <i>Pycnonotus sp</i> (LN: Jureli).
Mammals	<i>Panthera pardus</i> (LN: Chitwa); <i>Macaca mulatta</i> (LN: Monkey); <i>Ursus sp</i> (LN: Bhalu); <i>Martes flicigula</i> (LN: Malsapro); ... (LN: Mirga); ... (LN: Kharayo); <i>Canis aureus</i> (LN: Syal).
Invasive alien species	None.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Simro Danda; About 1 km from lake; Main Trail: Ilam Pokhari - Simro Danda; 50 m from main trail to lake.

Land use Forest land (100%).

Demography No settlements at basin.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin > 50 from outside of basin.

Traditional production system None.

Traditional water use practices None.

Cultural record Local fair in full moon in Chaitra.

Genesis/origin of lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Water for livestock; Medicine; Fuel wood; Fodder/forage.

Cultural services Temple at lakeshore.

### **E. Restoration/Management**

Structural management None.

Non structural management Informal restriction.

Conservation plan None.

Monitoring plan None.

### **F. Tourism information**

Many visitors during full moon in Chaitra month; No tourism potential.

### **G. Lake condition**

Degrading.

## 5. Murunje Pokhari

Code: P4-D4-005

Toposheet no: 2884-14A

Date of inventory: 24<sup>th</sup> February, 2014

Compiler's name: Narendra Gautum, Aparajit Shrestha and Dipendra Sharma

### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 28014'13.6"N; Lon.: 84017'12.1"E; Alt.: 1289 masl.

Geographical position

Mahabharat Lekh.

Administrative feature

WDR; Lamjung district; Maling VDC; Ward no. 3; Marunge. (Current: Kwhloasothari Rural Municipality; Ward no. 2)

Boundary

Core area: Health post in west; Barren land in east; Post office in south; Road in south.

Management responsibility

VDC.

Wetlands type

Freshwater/natural; Lacustrine: Seasonal.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 30 0 C (May/June). Avg. Min.: 6 0 C (Jan); Average Rainfall: >2800.

Area

Core area: 0.3 ha; Avg. Length: 90 m; Avg. Width: 80 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 1. - 0.1 m. Basin Area: 12 ha.

Water Volume

Dry during inventory; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: NA.

Soil feature

Brown color; sandy clay texture.

Shocks/vulnerability

Encroachment; Dryness.

Major aquatic plants

Core area: None.

Major plants in basin

Musa aciminata (LN: Kera; HT: Shr; LU: Fr); Schima wallichii (LN: Chilaune; HT: Tr; LU: Tm, Ful) Castanopsis indica (LN: katus; HT: HT: Tr; LU: Fruit/Ful).

Fish

None.

Herpetofauna

Rana spp. (LN: Bhyaguto).

Birds

Pycnonotus sp (LN: Jureli); Crovus splendens (LN: Kaag); Streptopelia decaocto (LN: Dhikur); Acridotheres tristis (LN: Dangre); ... (LN: Lampuchhre); Dicrurus macroceros (LN: Chibe).



Mammals *Macaca mulatta* (LN: Monkey); *Martes flicigula* (LN: Malsapro); ... (LN: Mirga); *Panthera pardus* (LN: Chitwa); ... (LN: Kharayo); *Canis aureus* (LN: Syal).

Invasive alien species None.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Kalkoda village; 50 m from lake; Main Trail: Raj gaon - Maling Road; 1.5 km from lake.

Land use Forest land (40%); Agriculture (20%); Settlement (10%) Barren land (30%).

Demography Population: 72; Male: 30; Female: 42; HHs: 18; Ethnicity: Janajati (90%); dalit (10%); Major Religion: Hindu.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin > 80 no.

Traditional production system Terrace farming

Traditional water use practices Water coup in the villages.

Cultural record None.

Genesis/origin of Lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Water for livestock; Medicine; Fuel wood; Fodder/forage.

Cultural services None.

### **E. Restoration/Management**

Structural management Stone wall constructed for water retention.

Non-structural management None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degraded.



## 6. Siddi Pokhari

Code: P4-D4-006

Toposheet no: 2884-14A

Date of inventory: 20<sup>th</sup> February, 2014

Compiler's name: Narendra, Aparajit and Dipendra



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 28°15'13.207"N; Lon.: 84°21'30.318"E; Alt.: 1085 masl.

Geographical position

Mahabharat Lekh; Valley.

Administrative feature

WDR; Lamjung district; Chandisthan VDC; Ward no. 5; Siddipokhari.

(Current: Besisahar Municipality; Ward no. 6)

Boundary

Core area: Barren land in west; Agricultural land in east and south; Temple in north.

Basin Area: Barren land in west; Agricultural land in east; Forest in south and north.

Management Responsibility

VDC.

Wetlands type

Freshwater/natural; Lacustrine: Permanent

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 30° C (May/June). Avg. Min.: 6° C (Jan).

Area

Core area: 0.5 ha; Avg. Length: 60 m; Avg. Width: 20 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: 1 - 0.1 m; Basin Area: 20 ha.

Water Volume

Almost dry during inventory; Estimated volume as 2000 m<sup>3</sup>.

Water quality

Physicochemical parameter: Temp.: 17° C; pH: 6; Transparency: Opaque due to algal bloom.

Soil feature

Dark; sandy clay texture.

Shocks/vulnerability

Eutrophication.

Major aquatic plants

Core area: None.

Major plants in basin

*Bambusa sp* (LN: Bans; HT: Shr; LU: Fr); *Lantana camara* (LN: Banmara; HT: Sh; LU: None); *Alnus nepalensis* (LN: Utish; HT: Tr; LU: Tm); *Cedrella toona* (LN: Tuni; HT: Tr; LU: Tr); *Schima wallichii* (LN: Chilaune; HT: Tr; LU: Ful); *Rubus ellipticus* (LN: Ainselu; HT: Sh; LU: Fruit).

Fish

*Mastacembelus armatus* (LN: Bam; LU: Meat); *Catla catla* (LN: Bhakur; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto).

Birds

*Columba livia* (LN: Parewa; LU: Meat); *Pycnonotus sp* (LN: Jureli); *Crovis splendens* (LN: Kaag); *Streptopelia decaocto*

	(LN: Dhikur); <i>Acridotheres tristis</i> (LN: Dangre); <i>cuculus sp</i> (LN: Koili).
Mammals	<i>Macaca mulatta</i> (LN: Bandar); <i>Ursus sp</i> (LN: Malsapro); ... (LN: Mirga); <i>Panthera pardus</i> (LN: Chitwa); ... (LN: Kharayo); <i>Canis aureus</i> (LN: Syal).
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Rajdale village 500 m from lake; Main Trail: Besisahar to Khudibari Road linked by Chandisthan road (500 m from lake).
Land use	Forest land (70%); Agriculture (25%); Barren land (05%).
Demography	None.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of Lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Drinking water supply to downstream villages; Irrigation; Water for livestock; Fuel wood; Fodder/forage.
Cultural services	Temple; local fair in major festivals.

### **E. Restoration/Management**

Structural management	None.
Non structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degraded.

## 7. Tin Ghare Thulo Pokhari

Code: P4-D4-007

Toposheet no: 2884-14A

Date of inventory: 25<sup>th</sup> February, 2014

Compiler's name: Narendra Gautum, Aparajit Shrestha and Dipendra Sharma



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°9'54.067"N; <u>Lon.</u> : 84°18'3.789"E; <u>Alt.</u> : 1182 m amsl.
Geographical position	Mahabharat Lekh; Slope.
Administrative feature	WDR; Lamjung district; Neta VDC; Ward no. 5; Thansing Neta. (Current: Madhya Nepal Municipality; Ward no. 10)
Boundary	<u>Core area</u> : Forest in west and north; School in east and south. <u>Basin Area</u> : Forest in west and north; School in east and south.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Lacustrine; Seasonal

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 31° C (May/June). <u>Avg. Min.</u> : 6° C (Jan).
Area	<u>Core area</u> : About 1 ha; Avg. Length: 100 m; Avg. Width: 40 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: 2 - 0.5 m; <u>Basin Area</u> : 10 ha.
Water Volume	8000 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 18° C; pH: 6; Transparency: 0.2 m.
Soil feature	Dark color; sandy clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Rhododendron arboreum</i> (LN: Laliguras; HT: Tr; LU: Ful); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Rel tree); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm, Ful) <i>Cedrella toona</i> (LN: Tuni; HT: Tr; LU: ...).
Fish	None.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto).
Birds	<i>Pycnonotus sp</i> (LN: Jureli); <i>Crovis splendens</i> (LN: Kaag); <i>Streptopelia decaocto</i> (LN: Dhikur); <i>Cuculus sp</i> (LN: Koili); ... (LN: Ban khukura)
Mammals	<i>Macaca mulatta</i> (LN: Monkey); <i>Ursus sp</i> (LN: Bhalu); <i>Martes flicigula</i> (LN: Malsapro); ... (LN: Mirga); <i>Panthera pardus</i> (LN: Chitwa); ... (LN: Kharayo); <i>Canis aureus</i> (LN: Syal).

Invasive alien species None.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Tinghare; 400 m from lake; Main Trail: Thangsingkot - Neta Trail; 300 m from trail to lake.

Land use Forest land (50%); Barren (50%).

Demography No settlement at basin.

Jurisdiction/ownership State.

Wetlands dependent community None

Livestock at basin None.

Traditional production system None.

Traditional water use practices None.

Cultural record None.

Genesis/origin of lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Water for livestock of donstream villages; Medicine, Fuel wood; Fodder/forage.

Cultural services None.

### **E. Restoration/Management**

Structural management None.

Non-structural management None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degraded.

## 8. Ulgera Pokhari

Code: P4-D4-008

Toposheet no: 2884-15A

Date of inventory: 23<sup>rd</sup> February, 2014

Compiler's name: Narendra Gautam, Aparajit Shrestha and Dipendra Sharma



### A. General Feature

Conservation status	None.
Geographical coordination	Lat.: 28013'6.50"N; Lon: 84036'15.45"E; Alt.: 2152 masl.
Geographical position	Mahabharat Lekh; Slope.
Administrative feature	WDR; Lamjung district; Bichaur VDC; Ward no. 8; Chakshe, Ulgera Pokhari. (Current: Dudhpokhari Rural Municipality; Ward no. 2)
Boundary	Core area: Forest in west and north; Barren land in east and south. Basin Area: Forest in west and north, Barren land in east and south.
Management responsibility	VDC.
Wetlands type	Freshwater/natural; Palustrine; Emergent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp.: Avg. Max: Temp.: 28 0 C (May/June). Avg. Min.: 5 0 C (Jan).
Area	Core area: About 1 ha; Avg. Length: 40 m; Avg. Width: 30 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: 1.5 - 0.3; Basin Area: 16 ha.
Water Volume	2200 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	Physicochemical parameter: Temp.: 120 C; pH: 6; Transparency: 0.2 m.
Soil feature	Dark color; Clay texture.
Shocks/vulnerability	Eutrophication from forest floor.
Major aquatic plants	Core area: None.
Major plants in basin	Schima wallichii (LN: Chilaune; HT: Tr; LU: Tm, Ful); Castanopsis indica (LN: Katus; HT: Tr; LU: Ful); Alnus nepalensis (LN: Utish; HT: Tr; LU: Tm)
Fish	NA
Herpetofauna	Rana spp. (LN: Bhyaguto);
Birds	Pycnonotus sp (LN: Jureli; ON: 3; Migratory); ... (LN: Lampuchhre; ON: 10) Passer domesticus (LN: Bhangera; ON: 15); Francolinus gularis (LN: Titra; ON: 1; LU: Meat).

Mammals Panthera pardus (LN: Chitwa); *Macaca mulatta* (LN: Bandar; EN: Monkey); Ursus sp (LN: Bhalu); Martes flicigula (LN: Malsapro); ... (LN: Mirga); ... (LN: Kharayo); Canis aureus (LN: Syal).

Invasive alien species Eupatorium sp (LN: Banmara).

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Khagithok; 500 m from lake; Main Trail: Mashil Road; 1km from lake.

Land use Forest land (60%); Agriculture land (20%); others (20 %).

Demography No settlement at basin.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin None

Traditional production system None.

Traditional water use practices None.

Cultural record None.

Genesis/origin of lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Fuel wood; Fodder/forage.

Cultural services None.

### **E. Restoration/Management**

Structural management None.

Non structural management None.

Conservation plan None

Monitoring plan None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degraded.

## Annex-36: Inventory of lakes in Mustang district

### 1. Dhumba Lake

Code: P4-D5-001

Toposheet no: 2883 16B

Date of inventory: March, 2015



#### A. General Feature

Conservation status

Conservation Area (Category VI) (ACAP).

Geographical coordination

Lat.: 28°39'6.82"N; Lon.: 83°37'9.56"E; Alt.: 2688 masl.

Geographical position

Trans- Himalayas.

Administrative feature

WDR; Mustang district; Jomsom VDC; Jomsom.

Boundary

(Current: Gharapjong Rural Municipality; Ward no. 5)

Core Area: Barren field in west; Settlement in east; Shurb land in south; Residential area in north.

Management Responsibility

Basin Area: Barren field in west; Jomsom Bazar in east; Nilgiri Mountain in south; Jomsom Airport in north.

*Guru Rimpoche Padhmasambhava Gumba Bewasthapan Samitee.*

Wetlands type

Freshwater/natural; Aquifer; Perennial.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 16.4<sup>0</sup> C (April). Avg. Min.: 3.8<sup>0</sup> C. Avg. Rainfall: 307 mm/yr.

Area

Core area: 1 ha; Avg. Length: 110 m; Avg. Width: 90 m; Avg. Depth: 2.5 m; Max-Min Surface Water Level: 5–3 m; Basin Area: 10 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: Kali Gandaki river.

Water quality

Physicochemical parameter: Temp: 7<sup>0</sup> C, pH: 7.5; Transparency: 5 m.

Soil feature

Brown; color; Sandy texture.

Shocks/vulnerability

None.

Major aquatic plants

Carex sps (EN: Lakesedge; HT: Em); Chara spp (LN: EN: Muskgrass; HT: Sm); Fimbristylis sps (LN: Mothe; EN: Fringe rush; HT: Em); Elucharis palustris (EN: Spikerush; HT: Em); Cyperus aristatus (LN: Mothe; EN: Bearded flatsedge; HT: Em); Heracleum lallii (LN: Bhutkesh; EN: Himalayan Hogweed; HT: Em); Hedera nepalensis (LN: Khursanijhar; EN: Himalayan Ivy; HT:).

Major plants in basin

Pinus wallichina (LN: Saallo; EN: Blue pine; HT: Tr; LU: Tm, Sottar); Rhododendron sps (LN: Gurans; HT: Tr; LU: Tm; Ful) Aster sps (LN: Krishnakali; HT: Hr; LU:); Pieris formoasa (LN: Lekhangeri; HT: Gr; LU:); Taxus wallichina (LN: Loth salla; EN: Himalayan yew).

Fish

None.

Herpetofauna	Bufo himalayanus (LN: EN: Himalayan Toad); Nanorana rostandi (LN: Mustangebhyaguto; EN: Dubois Frog); <i>Rana liebigii</i> (LN: Pahah; EN: Liebig's Paa Frog); <i>Gloydius himalayanus</i> (LN: Himali Bansekhopilte; EN: Himalayan Pitviper); Amphisme platyceps (LN: Panisarpa; EN: Mountain Killback).
Bird	Gyps fulvus (LN: Khairogiddha; EN: Eurasian Griffon); Milvus migrans (LN: Kalochil; EN: Blackkite); Parus major (LN: Chichilkote; EN: Great Tit), Anthropydes virgo (LN: Karyangkurung; EN: Demoiselle Crane); Ithaginis cruentus (LN: Chilime; EN: Blood Pheasant); Lophophorus impejanus (LN: Danfe; EN: Himalayan Munal).
Mammals	Naemorhedus goral (LN: Ghoral; EN: Himalayan Ghoral); Canis aureus (LN: Syal; EN: Golden Jackal); Canis lupus (LN: Bwanso; EN: Greywolf); Selenarctos thibetanus (LN: Kalobhalu; EN: Himalayan Blackbear); Hystrix indica (LN: Dumsi; EN: Porcupine).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Jomsom: 2 Km from lake; Main Trail: Beni-Jomsom Road; 2 km from lake to the main trail.
Land use	Forest land (20%); Agriculture (60%); Grassland (5%); Settlement (10%); Barren land (3%); Wetland (2%).
Demography	Population: About 1698; Male: 964; Female: 734; HHs: 429; Ethnicity: Major Religion: Buddhism.
Jurisdiction/ownership	NTNC-ACAP
Wetlands dependent community	None.
Livestock at basin	>700 in no. mainly sheep and yak.
Traditional production system	Traditional animal husbandry.
Traditional water use practices	<i>Kulo</i> ; Water coup; Stone spout.
Cultural record	Guru Rimpoche Padhmasambhava Gumba.
Genesis/origin of Lake	Dammed.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Water for livestock; NTFPs; Fodder/forage; Timber.
Cultural services	Aesthetic and scenic; Recreational; Educational services; Religious bath for Buddhist.

### E. Restoration/Management

Structural management	Concrete dam; Foot trail.
Non structural management	none.
Conservation plan	none.
Monitoring plan	none.

### F. Tourism information

>15000 annual visitors; Public transportation available; Teashops and hotels with accommodation facilities in Jomsom (2 km from lake); High tourism potential; Need improvement in infrastructure development, marketing and tourism promotional activities.

### G. Lake condition

Good.



## 2. Titi Lake

Code: P4-D5-002

Toposheet no: 2883 16B

Date of inventory: March, 2015



### A. General Feature

Conservation status

Conservation Area (Category VI) (ACAP).

Geographical coordination

Lat.: 28°39'6.82"N; Lon.: 83°37'9.56" E; Alt.: 2679 masl.

Geographical position

Mahabharat Lekh.

Administrative feature

WDR; Mustang district; Kunjo VDC; *Titi*

(Current: Thasang Rural Municipality; Ward no. 5)

Boundary

Core area: Open sand and gravel field in all direction.

Basin Area: *Khoka-Titi-Lhakkyor* trail in west; *Khoka-Nupsan Danda* trail in east; *Khoka-Titi* trail and forest in south; Pastureland and *Titi Danada* (Alt 3000 m) in north.

Management Responsibility

ACAP.

Wetlands type

Freshwater/natural; Aquifer; Perennial.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 16.4 Avg. Min.: 3.7<sup>0</sup> C. Avg. Rainfall: 330 mm/yr (DDC Profile)

Area

Core Area: 8.5 ha; Avg. Length: 360 m; Avg. Width: 240 m; Avg. Depth: 3 m; Max - Min Surface Water Level: 5-3 m; Basin Area: 92 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp: 12<sup>0</sup> C, pH: 7.5; Transparency: 3 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

None.

Major aquatic plants

*Carex sps* (LN: EN: Lakesedge; HT: Em); *Chara spp* (EN: Muskgrass; HT: Sm); *Fimbristylis sps* (LN: Mothe; EN: Fringerush; HT: Em); *Elucharis palustris* (LN: EN: Spikerush; HT: Em); *Cyperus aristatus* (EN: Bearded Flatsedge; HT: Em); *Heracleum lallii* (LN: Bhutkesh; EN: Himalayan Hogweed; HT: Em); *Hedera nepalensis* (LN: Khursanijhar; EN: Himalayan Ivy; HT:).

Major plants in basin

*Pinus wallichina* (LN: Saallo; HT: Tr; LU: Tr); *Carex sp.* (LN: HT: Gr; LU: Fd); *Rhododendron sps* (LN: Gurans; HT: Tr; LU: Fd; Ful); *Aster sps* (LN: Krishnakali; HT: Hr; LU:); *Pieris formosa* (LN: Lekhangeri; HT: LU:); *Taxus wallichina* (LN: Lothsalla; HT: Tr; LU; Ful; Tm; Md).

Fish

None.

Herpetofauna

*Bufo Himalayanus* (LN: EN: Himalayan Toad); *Nanorana rostandi* (LN: Mustang Frog; EN: Dubois Frog); *Rana liebigii* (LN: Pahah; EN: Liebig's Paa Frog); *Gloydus Himalayanus* (LN: Himali Bansekhopilte; Himalayan Pitviper); *Amphisme platyceps* (LN: Panisarpo; EN: Mountain Killback).

Bird	<i>Gyps fulvus</i> (LN: Khairo Giddha; EN: Eurasian Griffon); <i>Milvus migrans</i> (LN: Kalochil; EN: Blackkite); <i>Parus major</i> (LN: Chichilkote; EN: Great Tit), <i>Anthropydes virgo</i> (LN: Karyangkurung; EN: Demoiselle Crane); <i>Ithaginis cruentus</i> (LN: Chilime; EN: Blood Pheasant); <i>Lophophorus impejanus</i> (LN: Danfe; EN: Himalayan Munal).
Mammals	<i>Naemorhedus goral</i> (LN: Ghoral; EN: Himalayan Ghoral); <i>Canis aureus</i> (LN: Syal; EN: Golden Jackal); <i>Canis lupus</i> (LN: Bwanso; EN: Greywolf); <i>Selenarctos thibetanus</i> (LN: Kalo bhalu; EN: Himalayan Blackbear); <i>Hystrix indica</i> (LN: Dumsi; EN: Porcupine).
Invasive alien species	None.
Endemic plant/animal	<u>Animals</u> : <i>Gallinule chloropus</i> (LN: Bagale simkukhura; EN: Common Moorhen; breed only here in Nepal); <i>Fulica atra</i> (LN: Marul; EN: Common Cootchids).

### C. Socio-Economy at Basin

Nearby settlement	<i>Titi</i> ; 500 m from lake; Main Trail: Beni-Jomsom Road; About 3 km from lake to the main trail.
Land use	Forest land (20%); Agriculture (60%); Grassland (5%); Settlement (10%); Barren land (3%); Wetland (2%).
Demography	Population: About 73; Male: 39; Female: 34; HHS: 14 (Pop <sup>n</sup> of <i>Titi</i> ); Ethnicity: Major Religion: Buddhism
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>700 in no. mainly sheep, yak andhorse.
Traditional production system	Animal husbandry.
Traditional water use practices	Water coup; Water spout.
Cultural record	Hansa Barahi temple.
Genesis/origin of Lake	Dammed.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Water for livestock; Medicine; Fuelwood; Fodder/forage; NTFPs; Timber.
Cultural services	Aesthetic and scenic; Recreational and educational services; Religious site; Local fair during festivals.

### E. Restoration/Management

Structural management	Concrete dam.
Non structural management	Restriction for pollution.
Conservation plan	Under ACAP.
Monitoring plan	Under ACAP.

### F. Tourism information

>5000 annual visitors; Public transportation available up to Beni; Restaurant and accommodation facilities available; Moderate tourism potential; Needs marketing, infrastructure development and tourism promotional activities.

### G. Lake condition

Good.

## Annex-37: Inventory of lakes in Myagdi district

### 1. Gaikharke Tal

Code: P4-D6-001

Toposheet no: 2883 10A

Date of inventory: March, 2015



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.:</u> 28°26'48.17"N; <u>Lon:</u> 83°20'17.53"E; Alt.: 2139 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	WDR; Myagdi district; Devistan VDC-6 (Magardang); Devisthan (Current: Malika Rural Municipality; Ward no. 5)
Boundary	<u>Core Area:</u> Forest area in all direction. <u>Basin Area:</u> Rajdan-Haskholagau trail in west; Rajdan-Devisthan Bazar trail in east; Cropland in south; Haskholagau-Rajdan-Gharithok trail in north.
Management RESPONSIBILITY	VDC.
Wetlands type	Freshwater/natural; lacustrine; Perennial.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.:</u> 24.1 <sup>0</sup> C. <u>Avg. Min.:</u> 11.3 <sup>0</sup> C. <u>Avg. Rainfall:</u> 1573 mm/yr (DDC Profile).
Area	<u>Core Area:</u> 0.2 ha; Avg. Length: 50 m; Avg. Width: 40 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 4–1.5 m; <u>Basin Area:</u> 5 ha.
Water Volume	<u>Volume:</u> NA; <u>Inlet:</u> None; <u>Outlet:</u> Irrigation cannal to <i>Gharithokhgaun</i> .
Water quality	<u>Physicochemical parameter:</u> Temp: 18 <sup>0</sup> C, pH: 6.5; Transparency: 2 m.
Soil feature	Dark color; Clay loam texture.
Shocks/vulnerability	Siltation.
Major aquatic plants	<u>Core area:</u> Some species of algae are available.
Major plants in basin	<i>Alnus nepalensis</i> (LN: Uttis; HT: Tr; LU: Fd, Ful); <i>Rhododendron spp</i> (LN: Guras; HT: Tr; LU: Tm, ful); <i>Quercus semicarpifolia</i> (LN: Khasrung; HT: Tr; LU: Fd, ful); <i>Anaphalis contorta</i> (LN: Buki; HT: Hr; LU: LFd); Fern spp (LN: Unyu; LU: Vegetable); <i>Swertia chirata</i> (LN: Chirito; HT: Herb; LU: Medicine).
Fish	NA.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto; EN; Frog); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common Lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad); <i>Amphiesma spp</i> (LN: Panisarpa; EN: Mountain Killback).

Bird	<i>Lophophorus impejanus</i> (LN: Dhafe; EN: Himalayan Monal); <i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Eudynamis scolopaceus</i> (LN: Koili; EN: Asian Koel); <i>Lophophorus leucomelanus</i> (LN: Kalij; EN: Kalij Pheasant); <i>Caprimulgus macrurus</i> (LN: Lampuchre; EN: Large tailed nightjar); <i>Tragopan satyr</i> (LN: Munal; EN:).
Mammals	<i>Martes flavigula</i> (LN: Malsapro; EN: Yellow Marten); <i>Moschus sp</i> (LN: Mirga; EN: Deer); <i>Naemorhedus goral</i> (LN: Ghoral; EN: Himalayan Goral); <i>Macaca mullata</i> (LN: Badar; EN: Monkey); <i>Panthera pardus</i> (LN: Chitwa; EN: Leopard); <i>Sus scrofa</i> (LN: Badel; EN: Wildboar); <i>Oryctolagus sp</i> (LN: Kharayo; EN: Rabbit).
Invasive alien species	<i>Eupatorium adenophorum</i> (LN: Kalobanmara; EN: Mexican Devil).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Devisthan; 100 m from lake; Main Trail: Devisthan-Darbang road; 25 km from lake to the main trail.
Land use	Forest land (25%); Agriculture area (55%) Grassland (5%); Barren land (13%); Wetland (2%).
Demography	Population: About 3537; Male: 1561; Female: 1976; HHs: 751; Ethnicity: Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>400.
Traditional production system	Upland cultivation practice, Traditonal <i>Kulo</i> , Water coup.
Traditional water use practices	Irrigation, livestock feeding.
Cultural record	TaalBarahiTemple.
Genesis/origin of lake	Dammed.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Irrigation, Water for livestock and biodiversity; Fuelwood; Fodder & forage; NTFPs.
Cultural services	Aesthetic and scenic; Recreational.
<b>E. Restoration/Management</b>	
Structural management	None
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; No public transportation; Small teashops in Devisthan; No tourism potential.
<b>G. Lake condition</b>	
	Degrading.

## 2. Pittalkharke Tal (Ramkhani Tal)

Code: P4-D6-002

Toposheet no: 2883 10A

Date of inventory: March, 2015



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°25'58.98"N; <u>Lon.</u> : 83°16'36.99" E; Alt.: 2903 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	WDR; Myagdi district; Okharbot VDC-; ... (Current: Malika Rural Municipality; Ward no. 4)
Boundary	Core area: Bayeli communityForest. in all directions. <u>Basin Area</u> : Baglung District in west; Okharbot VDC in east; Okharbot and Taman VDC in south; Devisthan VDC in north.
Management Responsibility	None.
Wetlands type	Freshwater/natural; Lacustrine; Perennial.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 24.1 <sup>0</sup> C. <u>Avg. Min.</u> : 11.3 <sup>0</sup> C. <u>Avg. Rainfall</u> : 1573 mm/yr (DDC Profile).
Area	<u>Core area</u> : 0.2 ha; Avg. Length: 50 m; Avg. Width: 40 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 4–3 m; <u>Basin Area</u> : 2 ha.
Water Volume	<u>Volume</u> : NA; <u>Inlet</u> : None; <u>Outlet</u> : Taman river.
Water quality	<u>Physicochemical parameter</u> : Temp: 14 <sup>0</sup> C, pH: 6.5; Transparency: 2 m.
Soil feature	Dark color; Clay loam texture.
Shocks/vulnerability	Eutrophication.
Major aquatic plants	Some algae species observed.
Major plants in basin	<i>Rhododendron spp</i> (LN: Guras; HT: Tr; LU: Tr; Ful); <i>Quercus semicarpifolia</i> (LN: Khasrung; HT: Tr; LU: Fd; ful); <i>Anaphalis contorta</i> (LN: Buki; HT: Hr; LU: Fd); Fern spp (LN: Unyu); <i>Aconitum ferox</i> (LN: Visha).
Fish	NA.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto; EN: Frog); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common Lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad); <i>Amphiesma spp</i> (LN: Panisarpo; EN: Killback).
Bird	<i>Lophophorus impejanus</i> (LN: Dhafe; EN: Himalayan Monal); <i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Eudynamis scolopaceus</i> (LN: Koili; EN: Asian Koel); <i>Lophophorus leucomelanus</i> (LN: Kalij; EN: Kalij Pheasant); <i>Caprimulgus macrurus</i> (LN: Lampuchre; EN: Largetailed nightjar); <i>Tragopan satyr</i> (LN: Munal).
Mammals	<i>Martes flavigula</i> (LN: Malsapro; EN: Yellow Marten); <i>Moschus sp</i> (LN: Mirga; EN: Deer); <i>Naemorhedus goral</i> (LN:

Invasive alien species	Ghoral; EN: Himalayan Goral); <i>Macaca mullata</i> (LN: Badar; EN: Monkey); <i>Panthera pardus</i> (LN: Chitwa; EN: Leopard); <i>Sus scrofa</i> (LN: Badel; EN: Wildboar) <i>Oryctolagus sp.</i> (LN: Kharayo; EN: Rabbit); <i>Ursuss ps</i> (LN.: Bhalu; EN: Bear).
Endemic plant/animal	None. <i>Swertia chirata</i> (LN: Chirito; EN: Chiretta); <i>Daphne bholua</i> (LN: Baruwa; EN: Nepalese Paper Plant).
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	<i>Okharbot</i> ; 3km from lake; Main Trail: Taman-Okharbot road; 10 km from lake to the main trail.
Land use	Forest land (85%); Grassland (5%); Barren land (8%); Wetland (2%).
Demography	Population: 2336; Male: 1020; Female: 1316; HHs: 504; Ethnicity: Major Religion:
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>150.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	Dammed.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Water for livestock; Fuelwood; NTFPs, Timber.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; No teashops; No transportation facility; No hotels; No tourism potential.
<b>G. Lake condition</b>	
	Degrading.

## Annex-38: Inventory of lakes in Nawalpur district

### 1. Gaida Tal

Code: P4-D7-001

Toposheet no: 2784 05B

Date of inventory: February, 2014

Compiler's name: Aman Dangaura, Prakash Sigdel and Pradeep Raj Joshi



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°39'12.5" N; <u>Lon.</u> : 84°12'35.9" E; <u>Alt.</u> : 143 m amsl.
Geographical position	Tarai.
Administrative feature	WDR: Nawalparasi district; Dibyapuri VDC; Ward No. 3; Dibyapuri. (Current: Devchuli Municipality; Ward no. 3)
Boundary	<u>Core area</u> : Forest in all directions. <u>Basin Area</u> : Forest and Narayani river in east; Forest and stream in west; Forest and Narayani river in south; Forest in north.
Management Responsibility	Government (Dibyapuri BZCF).
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 37° C (Jun/Jul). <u>Avg. Min.</u> : 5° C (Dec); Avg Rainfall: 2145 mm per yr.
Area	<u>Core area</u> : 2.5 ha; Avg. Length: 300 m; Avg. Width: 40 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 3 - 1 m; <u>Basin Area</u> : 55 ha.
Water Volume	Peak Period: 35,000 m <sup>3</sup> ; Dry period: 10,000 m <sup>3</sup> ; Inlet: None; Outlet: Drrain to Narayani river.
Water quality	<u>Physicochemical parameter</u> : Temp.: 22° C; pH: Slightly acidic.
Soil feature	Grey color, Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Ipomea carnea</i> (LN: Besharam, HT: Em; LU: None); <i>Sachharum bengalensis</i> (LN: Kansh, HT: Em; LU: Food for Rhino); <i>Phragmites karka</i> (LN: Narkat, HT: Em); <i>Dryopteris</i> spp. (LN: Unio, HT: Em; LU: None); <i>Azeratum conyzoides</i> (LN: Gandhe; HT: Em).
Major plants in basin	<i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: Tm, Ful) <i>Dalbergia sisso</i> (LN: Sisau, HT: Tr, LU: Tm, Ful); <i>Acacia catechu</i> (LN: Khayer, HT: Tr, LU: Ful); <i>Trewia nudiflora</i> (LN: Bhellar; HT: Tr; LU: Ful/Fd); <i>Mussaenda frondosa</i> (LN: Asare; HT: Tr, LU: Ful), <i>Imperata cylindrical</i> (LN: Siru; HT: Hr; LU: Fd).
Fish	<i>Clarias batrachus</i> (LN: Mangoor; LU: Meat); <i>Heteropneustes fossilis</i> (LN: Singhi; LU: Meat); <i>Puntius chola</i> (LN: Sidra; LU: Meat); ... (LN: Bhoti; LU: Meat); ... (LN: Jhinge; LU: Meat); ...

	(LN: Gaira; LU: Meat); <i>Mastacembelus armatus</i> (LN: Bam; LU: Meat).
Herpetofauna	... (LN: Totari Kachuwa); <i>Crocodylus palustris</i> (LN: Muger gohi); <i>Gavialis gangeticus</i> (LN: Gharial); <i>Ptyas mucosa</i> (LN: Dhamin); <i>Bungarus</i> sp (LN: krait); <i>Python bivittatus</i> (LN: Ajingar); <i>Xenochropis piscator</i> (LN: Pani sarpa).
Birds	<i>Acridotheres tristis</i> (LN: Dangre); <i>Streptopelia decaocto</i> (LN: Dhukur; LU: Meat); <i>Casmerodius albus</i> (LN: Bakulla; EN: Crane); <i>Alcedo atthis</i> (EN: Kingfisher); <i>Milvus migrans</i> (LN: Chil); <i>Aegyptius monachus</i> (LN: Giddha).
Mammals	<i>Panthera tigris</i> (LN: Pate Bagh; EN: Tiger); <i>Panthera pardus</i> (LN: Chituwa; EN: Leopard); <i>Rhinoceros unicornis</i> (LN: Gaida); <i>Elephas maximus</i> (LN: Hatti; EN: Elephant); <i>Canis aureus</i> (LN: Syal); <i>Sus scrofa</i> (LN: Bandel).
Invasive alien species	<i>Ipomea carnea</i> .
Endemic plant/animal	None.

### C. Socio-Economy at Basin/Periphery

Nearby settlement	Botetol; 100 m from lake; Main Trail: Keurani – Bote tol; 3 Km.
Land use	Forestland (50%); Settlement (5%); Shrub land (30%); Agricultural (10%); Wetland (5%).
Demography	Population: 3500; Male: 1700; Female: 1800; HHs: 615; Ethnicity: Brahmin/Chhetri (50%); Janajati (40%); Dalit (10%). Major Religion: Hindu. (Note: Population of BZ CF User Groups).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	Approx. 1300 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Well/Kuwa.
Cultural record	Religious site (Ram Mandir).
Genesis/origin of lake	Ox-Bow-Lake of the Narayani river.

### D. Ecosystem Goods/Services

Provisional services	Fisherry.
Cultural services	Educational service.

### E. Restoration/Management

Structural management	Formal rules by Dibyapuri BZCF
Non-structural management	None
Conservation plan	Available
Monitoring plan	Available.

### F. Tourism information

No visitors; No tourism potential.

### G. Lake condition

Degrading.



## 2. Sanischare Pokhari

Code: P4-D7-002

Toposheet no: 2784 05B

Date of inventory: February, 2014

Compiler's name: Aman Dangaura,  
Prakash Sigdel and Pradeep Raj  
Joshi



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 39' 20.9"N; <u>Lon.</u> : 84° 12' 49.1"E; <u>Alt.</u> : 159 masl.
Geographical position	Terai.
Administrative feature	WDR: Nawalparasi district; Dibyapuri VDC; Ward No. 3; Dibyapuri.  (Current: Devchuli Municipality; Ward no. 3)
Boundary	<u>Core area</u> : Shrubland in east, west and south; Forest in north.
<u>Basin Area</u>	Forest in east and west; Forest and river in south; Settlement in north.
Management Responsibility	Dibyapuri Buffer Zone Community Forest.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max</u> : Temp.: 37° C (Jun/Jul). <u>Avg. Min.</u> : 5° C (Dec); <u>Avg Rainfall</u> : 2145 mm per yr.
Area	<u>Core area</u> : 1.5 ha; Avg. Length: 145 m; Avg. Width: 80 m; Avg. Depth: 2 m; Max - Min Surface Water Level: 3 - 1 m; <u>Basin Area</u> : 40 ha.
Water Volume	Estimated in peak period: 35,000 m <sup>3</sup> ; Dry period: 12,000 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 22° C; pH: Slightly acidic; Transparency: 30 cm.
Soil feature	Grey color, Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Ipomea carnea</i> (LN: Besharam, HT: Em; LU: None); <i>Sachharum bengalensis</i> (LN: Kansh, HT: Em; LU: Food for Rhino); <i>Imperata cylindrical</i> (LN: Siru, HT: Em; LU: Fd); <i>Phragmites karka</i> (LN: Narkat, HT: Em; LU: ...); <i>Dryopteris</i> spp. (LN: Unio, HT: Em; LU: None).
Major plants in basin	<i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: Tm, Ful) <i>Dalbergia sisso</i> (LN: Sisau, HT: Tr, LU: Tm, Ful); <i>Acacia catechu</i> (LN: Khayer, HT: Tr, LU: Ful); <i>Trewia nudiflora</i> (LN: Vellar; HT: Tr; LU: Ful); <i>Mussaenda frondosa</i> (LN: Asare; HT: Tr, LU: Ful); <i>Imperata cylindrical</i> (LN: Siru; HT: Hr; LU: Fd).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat); <i>Cirrihinus mrigala</i> (LN: Naini; LU: Meat); <i>Aristichthys nobilis</i> (LN: Bighead; LU: Meat).

Herpetofauna	... (LN: Totari Kachuwa); <i>Crocodylus palustris</i> (LN: Muggergohi); <i>Ptyas mucosa</i> (LN: Dhamin); <i>Bungarus</i> sp (LN: krait); <i>Python bivittatus</i> (LN: Ajingar); <i>Xenochropis piscator</i> (LN: Pani sarpa).
Birds	<i>Acridotheres tristis</i> (LN: Dangre); <i>Streptopelia decaocto</i> (LN: Dhukur; LU: Meat); <i>Casmerodius albus</i> (LN: Bakulla; EN: Crane); <i>Alcedo atthis</i> (EN: Kingfisher); <i>Milvus migrans</i> (LN: Chil); <i>Aegyptius monachus</i> (LN: Giddha).
Mammals	<i>Rhinoceros unicornis</i> (LN: Gaida); <i>Elephas maximus</i> (LN: Hatti; EN: Elephant); <i>Canis aureus</i> (LN: Syal); <i>Sus scrofa</i> (LN: Bandel). <i>Panthera tigris</i> (LN: Pate Bagh; EN: Tiger) and <i>Panthera pardus</i> (LN: Chitwa; EN: Leopard).
Invasive alien species	<i>Ipomea carnea</i> .
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Botetol; 200 m; Main Trail: Keurani – Bote tol Road; 3 km from lake.
Land use	Forestland (50%); Settlement (5%); Shrub land (30%); Agricultural (10%); Wetland (5%).
Demography	Population: 3500; Male: 1700; Female: 1800; HHs: 615; Ethnicity: Brahmin/Chhetri (50%); Janajati (40%); Dalit (10%). Major Religion: Hindu. (Note: Population of BZ CF User Groups).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About 1300 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Well/Kuwa.
Cultural record	Ram Mandir.
Genesis/origin of lake	Fomed due to shift of the Narayani river.

### D. Ecosystem Goods/Services

Provisional services	Fish supply; Fodder/forage.
Cultural services	Religious and educational services.

### E. Restoration/Management

Structural management	Formal rules by Dibyapuri BZCF
Non-structural management	None
Conservation plan	Available.
Monitoring plan	Available.

### F. Tourism information

No visitors; No tourism potential.

### G. Lake condition

Degrading.

## Annex-39: Inventory of lakes in Parbat district

### 1. Patle Kharka Pokhari

Code: P4-D8-001

Toposheet no: 2883-15C

Date of inventory: March 7, 2014

Compiler's name: Narendra

Gautum, Aparajit Shrestha and

Dipendra Sharma



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°4'21.461" N; <u>Lon.</u> : 83°37'10.62"E; <u>Alt.</u> : 1948 masl.
Geographical position	Mahabharat Lekh; Slope.
Administrative feature	WDR; Parbat district; Hosrangdi VDC; Ward no. 4; Patle kharka (Golyan kharka). (Current: Mahasila Rural Municipality; Ward no. 1)
Boundary	<u>Core area</u> : Forest in west; Barren land in east; north and south. <u>Basin Area</u> : Forest in all directions.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Palustrine: emergent

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 32° C (March/April). <u>Avg. Min.</u> : 7.5° C (Dec/Jan); <u>Avg. Annual Rainfall</u> : 2600 mm.
Area	<u>Core area</u> : Approx.0.5 ha; Avg. Length: 40 m; Avg. Width: 30 m; Avg. Depth: 2 m; Max - Min Surface Water Level: 3 - 1.5 m <u>Basin Area</u> : 15 ha.
Water Volume	Estimated volume 3000 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : <u>Temp.</u> : 10° C; pH: 6; Transparency:0.3
Soil feature	Dark color; sandy clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm, Ful); <i>Cedrella toona</i> (LN: Tuni; HT: Tr; LU: Ful); <i>Rhodendron arboruem</i> (LN: Laliguras; HT: Tr; LU: Ful).
Fish	None.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto).

Birds	<i>Pycnonotus sp</i> (LN: Jureli); <i>Crocvus splendens</i> (LN: Kaag); <i>Streptopelia decaocto</i> (LN: Dhukur); <i>Acridotheres tristis</i> (LN: Dangre); ... (LN: Lampuchhre); <i>Dicrurus macrocerus</i> (LN: Chibe).
Mammals	<i>Macaca mulatta</i> (LN: Bandar; EN: Monkey); <i>Ursus sp</i> (LN: Bhalu); <i>Martes flicigula</i> (LN: Malsapro); <i>Moschus chrysogaster</i> (LN: Kasturi mriga); <i>Panthera pardus</i> (LN: Chitwa); ... (LN: Kharayo); <i>Canis aureus</i> (LN: Syal).
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Hosrangdi; 500 m; Main trail: Nepane Danda Motor Road; 1km from lake.
Land use	Forest land (85%); Barren land (10%); Wetland (2%); Other (3%).
Demography	No settlement at basin.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of Lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Domestic water supply; Fuel wood; Fodder/forage.
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
None. -structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake Condition** Degrading.

## 2. Sani pokhari

Code: P4-D8-001

Toposheet no: 2883-16A

Date of inventory: March 5, 2014

Compiler's name: Narendra

Gautum, Aparajit Shrestha and

Dipendra Sharma



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 28°24'44.51"N; Lon.: 83°45'1.53"E; Alt.: 1495 m amsl.

Geographical position

Mahabharat Lekh; Slope.

Administrative feature

WDR; Parbat district; Ramjadeurali VDC; Ward no. 8; Timilsnathar.

Boundary

Core area: Agricultural land in west and east; Road in south and north.

Basin Area: Agricultural land in west; Forest in east; Settlement in south and north.

Management Responsibility

VDC.

Wetlands type

Freshwater/natural; Lacustrine; Seasonal.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 32° C (March/April). Avg. Min.: 7.5° C (Dec/Jan); Avg. Annual Rainfall: 2600 mm.

Area

Core area: 0.5 ha; Avg. Length: 80 m; Avg. Width: 60 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: 2 - 0.5 m; Basin Area: 12 ha.

Water Volume

Estimated volume in peak period: 9,500 m<sup>3</sup>; Dry period: 2,500m<sup>3</sup>; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp.: 20° C; pH: 6; Transparency: Opaque.

Soil feature

Dark color; clay texture.

Shocks/vulnerability

Eutrophication.

Major aquatic plants

Core area: None.

Major plants in basin

*Prunus ceracoides* (LN: Painyeu; HT: Tr; LU: Ful); *Musa aciminata* (LN: Kera; HT: Sh; LU: Fr); *Alnus nepalensis* (LN: Utish; HT: Tr; LU: Tm, Ful); *Schima wallichii* (LN: Chilaune; HT: Tr; LU: Ful).

Fish

*Syprinus carpio* (LN: common carp; LU: Meat); *Hypothalmichthys molitrix* (LN: Silver carp; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto).

Birds

*Pycnonotus sp* (LN: Jureli); *Crovis splendens* (LN: Kaag); *Streptopelia decaocto* (LN: Dhikur); *Acridotheres tristis* (LN:

	Dangre); ... (LN: Lampuchhre); <i>Dicrurus macrocerus</i> (LN: Chibe).
Mammals	<i>Macaca mulatta</i> (LN: Monkey); <i>Ursus sp</i> (LN: Bhalu); <i>Martes flicigula</i> (LN: Malsapro); <i>Moschus sp</i> (LN: Mirga); <i>Panthera pardus</i> (LN: Chitwa); ... (LN: Kharayo); <i>Canis aureus</i> (LN: Syal).
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Timilsinatar; 50m from lake; Timilsinatar Motor Road; 100 m from lake.
Land use	Forest land (40%); Agriculture (40%); Settlement (20%).
Demography	Population: 80; Male: 35; Female: 45; HHs: 20; Ethnicity: Brahmin/ Chhetri (40%); Gurung (60%); Major Religion: Biddhist.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>100 no.
Traditional production system	Traditional maize cultivation.
Traditional water use practices	Farmer managed canals.
Cultural record	None.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Irrigation; Domestic water supply; Timber supply; Water for livestock; Fuel wood; Fodder/forage.
Cultural services	None

### **E. Restoration/Management**

Structural management	None
Non structural management	None
Conservation plan	None
Monitoring plan	None.

### **F. Tourism information**

No tourism potential.

### **G. Lake condition**

Degrading.

### 3. Thulo pokhari

Code: P4-D8-003

Toposheet no: 2883-16A

Date of inventory: March 5, 2014

Compiler's name: Narendra  
Gautum, Aparajit Shrestha and  
Dipendra Sharma



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°14'38.642"N; <u>Lon.</u> : 83°44'53.48"E; <u>Alt.</u> : 1609 masl.
Geographical position	Mahabharat Lekh; Slope.
Administrative feature	WDR; Parbat district; Ramjadeurali VDC; Ward no. 7; Khalthok. (Current: Modi Rural Municipality; Ward no. 7)
Boundary	<u>Core area</u> : Foot trail in east, west and south; Temple in north. <u>Basin Area</u> : Agricultural land in west; Forest in east and south; Temple in north.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Lacustrine: seasonal.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 32° C (March/April). <u>Avg. Min.</u> : 7.5° C (Dec/Jan); <u>Avg. Annual Rainfall</u> : 2600 mm.
Area	<u>Core area</u> : 1 ha; Avg. Length: 110 m; Avg. Width: 60 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: 2 - 0.5 m; <u>Basin Area</u> : 5 ha.
Water Volume	Estimated volume in peak period: 13,000 m <sup>3</sup> ; Dry period: 3,000m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : <u>Temp.</u> : 24° C; pH: 6; Transparency: Very opaque.
Soil feature	Red color; silty clay texture.
Shocks/vulnerability	Lower water retention.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Prunus ceracoides</i> (LN: Painyeu; HT: Tr; LU: Ful); <i>Musa aciminata</i> (LN: Kera; HT: Sh; LU: Fruit); <i>Alnus nepalensis</i> (LN: Utish; HT: Tr; LU: Tm, Ful); <i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Ful).
Fish	<i>Syprinus carpio</i> (EN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat).
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto).
Birds	<i>Pycnonotus sp</i> (LN: Jureli); <i>Crovis splendens</i> (LN: Kaag); <i>Streptopelia decaocto</i> (LN: Dhukur); <i>Acridotheres tristis</i> (LN:

	Dangre); ... (LN: Lampuchhre); <i>Dicrurus macrocerus</i> (LN: Chibe).
Mammals	<i>Macaca mulatta</i> (LN: Bandar); <i>Ursus sp</i> (LN: Bhalu); <i>Martes flicigula</i> (LN: Malsapro); <i>Moschus sp</i> (LN: Mirga); <i>Panthera pardus</i> (LN: Chitwa); ... (LN: Kharayo); <i>Canis aureus</i> (LN: Syal).
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Khalthok village; 50 m from lake; Main Trail: Dadathok Motor Road; 100 m from lake.
Land use	Forest land (50%); Agriculture (30%); Settlement (10%); Wetlands (5%); Other (5%).
Demography	Population: 75; Male: 25; Female: 50; HHs: 15; Ethnicity: Brahmin/ Chhetri (60%); Dalit (40%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None
Livestock at basin	>120 no.
Traditional production system	Terrace farming
Traditional water use practices	Farmer managed canal.
Cultural record	Temple.
Genesis/origin of Lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Irrigation. Fodder/forage.
Cultural services	None.

### **E. Restoration/Management**

Structural management	Support wall (stone)l.
Non structural management	None.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

No tourism potential.

### **G. Lake condition**

Degraded.



## Annex-40: Inventory of lakes in Tanahun district

### 1. Marshyangdi Reservoir

Code: P4-D9-001

Topo sheet no: N/A

Date of inventory: Feb, 2014

Compiler's name: Surendra Bam,  
Suresh Bhandari



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°55' 32.46" N; <u>Lon.</u> : 83°29' 47.52" E; <u>Alt.</u> : 600 m amsl.
Geographical position	Mahabharat Lekh; Valley.
Administrative feature	WDR; Tanahu district; Aabu VDC; Ward no. 3; Marki chowk. (Current: Aabu Khaireni Rural Municipality; Ward no. 3)
Boundary	<u>Core area</u> : Army camp in west; Forest in east; Dam in south; Marki village in north. <u>Basin Area</u> : Deurali danda in east; Marki village in west; Dam in south; Marki village in north.
Management Responsibility	None.
Wetlands type	Freshwater/natural; Riverine; Perennial.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 39° C (Jun/Jul). <u>Avg. Min.</u> : 3° C (Dec); <u>Avg. Rainfall</u> : 1761 mm/yr.
Area	<u>Core area</u> : 60 ha; Avg. Length: 4 km; Avg. Width: 150 m; Avg. Depth: 10 m; Max - Min Surface Water Level: 13 - 7 m; <u>Basin Area</u> : >3000 ha. (Watershed area: 385000 ha).
Water Volume	Peak Period: $3.6 \times 10^6$ m <sup>3</sup> ; Inlet: Marshyangdi river; Outlet: Trishuli river.
Water quality	<u>Physicochemical parameter</u> : Temp.: 17°C; pH: Neutral; Transparency: 1.5 m.
Soil feature	Grey color; Sandy clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Alternanthera sp</i> (HT: Sm, LU: NA).
Major plants in basin	<i>Acacia catechu</i> (LN: khayer; HT: Tr; LU: Ful); <i>Bombax ceiba</i> (LN: Simal; HT: tree; LU: Ful); <i>Fern Sps.</i> (LN: Unyu; HT: Herb; LU: no use); <i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Ful); <i>Ageratum conyzoides</i> (LN: Gandhe jhar; HT: Herb; LU: no use).
Fish	<i>Schizothorachthys</i> spp (LN: Asala; LU: Meat); <i>Tor tor</i> (LN: Sahar; LU: Meat).

Herpetofauna	<i>Calotes versicolor</i> (LN: Chheparo); <i>Xenocrophis piscator</i> (LN: pani sarpa);
Birds	<i>Acridotheres tristis</i> (LN: Saraute); <i>Pycnonotus sp</i> (LN: Jureli; ON: 5; Migratory); <i>Ceropis daurica</i> (LN: Gauthali; ON: 3); <i>Columba livia</i> (LN: Parewa, ON: 1); <i>Dendrocopos sp.</i> (Crowned Pigmy Woodpecker, ON: 1).
Mammals	<i>Canis aureus</i> (LN: Syal), <i>Felis chaus</i> (LN Ban Biralo); <i>Felis bengalensis</i> (LN: Chari Bagh); <i>Funambulus palmarum</i> (LN: Lokharke); <i>Herpestes edwardsi</i> (LN: Nyaurimusa).
Invasive alien species	<i>Eupatorium sp</i> (LN: Banmara, CO: 10%) <i>Calatropis sps.</i>
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Marki chowk Ghumti; 100 m from lake; Main Trail: Prithivi highway very close to lake.
Land use	Forest (50%); Agriculture (20%); Settlement (20%); Wetlands (5%); Others (5%);
Demography	Population: 400; Male: 320; Female: 150; HHs: 60; <i>Brahmin/Chettri</i> (50%); <i>Janajati</i> (40%); <i>Dalit</i> (10%); (Note: Only population of Margi village but population of total basin area NA).Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	> 40 no.
Traditional production system	Traditional paddy cultivation and terrace farming.
Traditional water use practices	Farmer managed small canals
Cultural record	NA.
Genesis/origin of lake	Built as reservoir for electricity generation.

### D. Ecosystem Goods/Services

Provisional services	69 MW electricity generations; Fishery; Fodder/forage; Medicine; wild vegetables and fruits.
Cultural services	Educational service.

### E. Restoration/Management

Structural management	Wall; Embankments.
None. -structural management	Fishing restricted around 500 m of reservoir. Restriction for any pollutions.
Conservation plan	NEA plan of operation.
Monitoring plan	NEA monitoring mechanism in place.

### F. Tourism information

No visitors as for lake; High tourism potential; Needs promotional activities, improvement on infrastructure and marketing.

### G. Lake condition

Good.

## Annex-41: Inventory of lakes in Arghakhanchi district

### 1. Sengleng Daha

Code: P5-D1-001

Toposheet no: 278301 - A

Date of inventory: April, 2015



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°54'33.41"N; <u>Lon.</u> : 83° 4'31.06"E; Alt.: 1823 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	WDR; Arghakhanchi district; Dhanchaur VDC-3; Sengleng. (Current: Bhumekasthan Municipality; Ward no. 10)
Boundary	<u>Core Area</u> : Small hamlets of Sengleng village in west; School in east; Grassland in south; Road in north. <u>Basin Area</u> : Shrub and forestland in west; Forest extension of Jaikurukh Danda in east; Terrace cropland in south; Dense forest in north (All basin area within Dhanchaur VDC-3).
Management responsibility	VDC.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 24 <sup>0</sup> C. <u>Avg. Min.</u> : 14.5 <sup>0</sup> C. <u>Avg. Rainfall</u> : 850 mm/yr (DDC Profile).
Area	<u>Core area</u> : 0.5 ha; Avg. Length: 60 m; Avg. Width: 50 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 4-0.8 m; <u>Basin Area</u> : 20 ha.
Water Volume	<u>Volume</u> : NA; <u>Inlet</u> : None; <u>Outlet</u> : None.
Water quality	<u>Physicochemical parameter</u> : Temp: 19 <sup>0</sup> C, pH: 6.5; Transparency: 0.4 m.
Soil feature	Grey color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	None.
Major plants in basin	<i>Myrica esculanta</i> (LN: Kafal; HT: Sr; LU: Fruit, Ful), <i>Alnus nepalensis</i> (LN: Uttis; HT: Tr; LU: Ful, Fd), <i>Pinus spp.</i> (LN: Salla; HT: Tr; LU: Ful; Tm), <i>Melastoma malabathricum</i> (LN: Angeri; HT: Tr; LU: Ful).
Fish	<i>Barilius barna</i> (LN: Fageta; LU: Meat); <i>Puntios sarona</i> (LN: Kande; LU: Meat).
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto; EN: Frog); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad).
Bird	<i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Casmerodius albus</i> (EN: Great egret; LN: Bakulla); <i>Chalcophaps indica</i> (LN:

Mammals	Dhukur; EN: Emerald dove); <i>Lophura lecumelanos</i> (LN: Kalij; EN: Kalij pheasant). <i>Canis sp</i> (LN: Syal; EN: Jackal); <i>Panthera pardus</i> (LN: Chitwa; EN: Leopard); <i>Macaca mulatta</i> (LN: Bandar; EN: Monkey).
Invasive alien species	None.
Endemic plant/animal	None.

**C. Socio-Economy at Basin**

Nearby settlement	Senglung village; 400 m from lake; Main Trail: Thada-Senglung road; 35 km from lake to Thada Bazar.
Land use	Forest (8%); Settlement (30%); Agriculture (50%) Grassland (10%); Wetland (2%).
Demography	Population: 426; Male: 174; Female: 252; HHs: 102; Ethnicity: Brahmin (60%); Janajati (20%); Dalit (10%); Others (10%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>300 in no.
Traditional production system	Terrace dry crop farming.
Traditional water use practices	Water coup.
Cultural record	Temple near to lake.
Genesis/origin of lake	NA.

**D. Ecosystem Goods/Services**

Provisional services	Irrigation; Water for livestock.
Cultural services	Local festive; Religious performance in temple; Occasional film shooting.

**Restoration/Management**

Structural management	Embankment.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**E. Tourism information**

>1000 annual visitors; Picnic spots available; No hotels and accommodation facilities in village but few hotels and communication services in Thada Bazaar (about 35 km from lake); Local transportation once a day each from Thada and Sandhhikharka bazaar; No tourism potential.

**F. Lake condition**

Good.

## 2. Thada daha

Code: P5-D1-002

Toposheet no: 098 - 05

Date of inventory: April, 2015



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.:</u> 27°51'43.61"N; <u>Lon.:</u> 83° 5'48.10"E; Alt.: 1320 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	WDR; Arghakhanchi district; Thada VDC-2; Thada bazaar. (Current: Sitganga Municipality; Ward no. 3)
Boundary	<u>Core Area:</u> Thada Police station in west; Gorusinghe-Sandikharka road in south; Foot trail & Thada Bazaar in south. Basin Area: Thada Bazaar in west; Scrub/cultivated land with settlements in east; Scrub/cultivated land with settlements and pine forest across road in south; urban settlement and open woods in north.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.:</u> 24 <sup>0</sup> C. <u>Avg. Min.:</u> 14.5 <sup>0</sup> C. <u>Avg. Rainfall:</u> 850 mm/yr (DDC Profile).
Area	<u>Core area:</u> >2.4 ha; Avg. Length: 250 m; Avg. Width: 100 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 2-3 m; <u>Basin Area:</u> >70 ha.
Water Volume	<u>Volume:</u> NA; <u>Inlet:</u> None; <u>Outlet:</u> none.
Water quality	<u>Physicochemical parameter:</u> Temp: 21 <sup>0</sup> C, pH: 7.5; Transparency: 15 cm.
Soil feature	Grey color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	None.
Major plants in basin	<i>Pinus spp.</i> (LN: Salla, HT: Tr; LU: Ful, Tm); <i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: Fd, Ful); <i>Schima wallichii</i> (LN: Chilaune; HT: Tr; LU: Ful); <i>Castanopsis indica</i> (LN: Katus; HT: Tr; LU: Ful, Fd); <i>Magnifera indica</i> (LN: Aanp; HT: Tr; LU: Fruit, Ful); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Rel).
Fish	<i>Schizothorax spp.</i> (LN: Asla, LU: Meat); <i>Hypophthalmichthys nobilis</i> (LN: Big head Carp, LU: Meat); <i>Cyprinus carpio</i> (LN: Common carp; LU: Meat) <i>Hypophthalmichthys molitrix</i> (LN: Silver carp, LU: Meat).
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto; EN: Frog); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad).

Bird	<i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Phalacrocorax carbo</i> (EN: Great Cormorant, LN: Jalewa); <i>Casmerodius albus</i> (EN: Great Egret, LN: Bakulla); <i>Lophura leucumelanos</i> (LN: Kalij; EN: Kalij Pheasant), <i>Eudynamis scolopaceus</i> (LN: Koyali, EN: Cuckoo); <i>Chalcophaps indica</i> (EN: Emerald Dove; LN: Dhukur).
Mammals	<i>Canis spp.</i> (LN: Syal; EN: Jackal); <i>Panthera pardus</i> (LN: Chitwa; EN: Leopard); <i>Macaca mulatta</i> (LN: Bandar; EN: Monkey); <i>Hystrix indica</i> (LN: Dumsi; EN: Porcupine).
Invasive alien species	None.
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Thada bazar; 100 m from lake; Main Trail: Gorusinge-Patharkot-Thada bazar road; 50 m from lake to main road.
Land use	Agriculture (70%); Settlement (15%); Forest (10%); Wetland (5%).
Demography	Population: 690; Male: 329; Female: 361; HHs: 168; Ethnicity: Brahmin (60%); Janajati (20%); Dalit (10%); Others (10%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	Believed to be formed from the drop-force of Damaru (a kind of musical instrument) of the Lord Shiva.

#### **D. Ecosystem Goods/Services**

Provisional services	Water for biodiversity; Commercial fishery.
Cultural services	Senic; Recreational (boating); Local festive during Dashain & full moon of Baisakh month).

#### **E. Restoration/Management**

Structural management	Peripheral impoundment; Foot trail; Investment from NLCDC in 2008 and 2013).
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

#### **F. Tourism information**

>5000 visitors during festivals; Moderate hotels and accommodation facilities in Thada bazaar; Police station and Bank services available; Good public bus services from Gorusinge Bazaar (about 40.km from); Moderate tourism potential; Needs tourism promotional activities.

#### **G. Lake condition**

Good.

## Annex-42: Inventory of lakes in Banke district

### 1. Bankatta Tal

Code: P5-D2-001

Toposheet no: 2881 5D

Date of inventory: March, 2015



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.:</u> 28 <sup>00</sup> 4'8.2" N; <u>Lon.:</u> 81 <sup>04</sup> 2' 7" E; <u>Alt.:</u> 142 masl.
Geographical position	Terai.
Administrative feature	MWDR 4; Banke district; Bankatti VDC; Ward No. 4; <i>Banakatti</i> .
Boundary	(Current: Duduwa Rural Municipality; Ward no. 5) <u>Core Area:</u> Uchchemasaha -Bankatti trail in west; Cropfield in east, south and north. <u>Basin Area:</u> Plant nursery; Uchchemasaha-Sulapurwa-Banakatti road in west; Rajarampurwa-Bankatawa-Banakatii trail in east; Tewaripurwa-Sulalpurwa-Bankattitrail in south; Cropfield in north.
Management RESPONSIBILITY	VDC.
Wetlands type	Freshwater/natural; Lacustrine; permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.:</u> 37.4 <sup>0</sup> C (April). <u>Avg. Min.:</u> 13 <sup>0</sup> C. <u>Avg. Rainfall:</u> 3710 mm/yr. (DDC Profile)
Area	<u>Core Area:</u> 20 ha; Avg. Length: 1.5 km; Avg. Width: 600 m; Avg. Depth: 3 m; Max-Min Surface Water Level: 4–1 m; <u>Basin Area:</u> 100 ha.
Water Volume	<u>Volume:</u> NA; <u>Inlet:</u> None; <u>Outlet:</u> None.
Water quality	<u>Physicochemical parameter:</u> Temp: 27 <sup>0</sup> C, pH: 6; DO: 5.2 mg/l; Transparency: 1 m.
Soil feature	Grey; color; Sandy silt & clay texture.
Shocks/vulnerability	Eutrophication; Weed invasion.
Major aquatic plants	<i>Oryzarufipogon</i> (LN: Jungalidhan; EN: Wildrice); <i>Hygrorhiza aristata</i> (LN:Jangalijhan; EN: Asian Watergrass); <i>Leersia hexandra</i> (LN: Haadeghas; EN: Swamp Rice Grass); <i>Eichhornea crassipes</i> (LN: Jalkumbh; EN:Water Hyacinth); <i>Nelumbo nucifera</i> (LN: Kamal; EN: Lotus); <i>Ceratophyllum demesum</i> (LN: EN: Hornwort); Vallisnaria spiralis (LN:Panikhar; EN:Tapegrass); Nymphoides indica; (LN:Kumudini; EN: Water Snowflake); <i>Potamogeton nodosus</i> (LN:Panikhar; EN:Longleaved Pondweed); <i>Ipomea cornea</i> (LN: Behaya; EN:Pink Morning Glory).
Major plants in basin	<i>Bombax cebia</i> (LN: Simal; HT: Tr; LU: Tm); <i>Dalbergia sisso</i> (LN: Sisso; HT: Tr; LU: Fd, Ful, Tm).

Fish	<i>Labeo rohita</i> (LN: Rahu; LU: Meat); <i>CatlaCatla</i> (LN: Bhaykur; LU: Meat); <i>Puntios sarona</i> (LN: Kande; LU: Meat); <i>Puntiu sticto</i> (LN: Bhite; LU: Meat);
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Ptyas mucosa</i> (LN: Dhaman; EN: Ratsnake); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common Lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad).
Bird	<i>Alcedo atthis</i> (LN: Matikore; EN: Kingfisher); <i>Bubulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Casmerodius albus</i> (LN: Thulo Setobakulla; EN: Great Egret); <i>Egretta garzetta</i> (LN: Sano Setobakulla; EN: Little Egret); <i>Sarkidiornis clangula</i> (LN: Nakata; EN: Comb Duck); <i>Tyto alba</i> (LN: Latokosero; EN: Owl); <i>Ardeola grayii</i> (LN: Aaskote Bakulla; EN: Pond Herons); <i>Accipiter spp</i> (LN: Baaz; EN: Hawk).
Mammals	None.
Invasive alien species	<i>Eichhornea crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	<i>Banakatti</i> village ;50 m from lake; Main Trail: Gulariya-Nepalgunj ;3 km from lake to the main trail.
Land use	Agriculture (50%); Settlement (50%);
Demography	Population: About 5010; Male: 2601; Female: 2409; Ethnicity: Muslim 80 %; Tharu 10 %; Others 10%; Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None
Livestock at basin	....
Traditional production system	Conventional paddy plantation.
Traditional water use practices	Famer managed irrigation canal; Water well.
Cultural record	None
Genesis/origin of lake	NA.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Irrigation; Water for livestock and biodiversity; Forage.
Cultural services	None
<b>E. Restoration/Management</b>	
Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	Novisitors; No Public transportation; Local teashops in Bankatti; Hotels with accommodation facilities in Nepalgunj (km from lake); No tourism potential.
<b>G. Lake condition</b>	
	Degraded.



## 2. Phultyangra Tal

Code: P5-D2-002

Toposheet no: 2881 15D

Date of inventory: March, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 28°59'64"N; Lon.: 81°64'36"E; Alt.: 148 masl.

Geographical position

Terai.

Administrative feature

MWDR 4; Banke district; Nepalgunj Sub Metropolitan; Ward No. 7; *Phulterkra*.

(Current: Nepalgunj Sub Metropolitan; Ward no. 7)

Boundary

Core Area: Surajigau-Phultekra trail in west; Cropland in east; Nepalgunj-Phattepur Highway in south; Cropfield in north.

Basin Area: Surajigau-Ganespur-Salyanbag trail in west; Cropfield in east and north; Nepalgunj-Phattepur Highway in south.

Management responsibility

Submetropoli.

Wetlands type

Freshwater/natural; Lacustrine; Permanent

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 37.4° C (April). Avg. Min.: 13° C. Avg. Rainfall: 3710 mm/yr (DDC Profile).

Area

Core Area: 50 ha; Avg. Length: 1 km; Avg. Width: 500 km; Avg. Depth: 1 m; Max-Min Surface Water Level: 2–0.5m; Basin Area: 100 ha.

Water Volume

None.

Water quality

Physicochemical parameter: Temp: 35° C, pH: 6; DO: 5.2 mg/l; Transparency: 1.5 m.

Soil feature

Grey color; Sandy silt & clay texture.

Shocks/vulnerability

Encorachment; Eutrophication; Invasion by weeds.

Major aquatic plants

*Oryza rufipogon* (LN: Jungalidhan; EN: Wildrice); *Hygrorrhiza aristata* (LN:Jangalidhan; EN: Asian Watergrass); *Leersia hexandra* (LN: Haadeghas; EN: Swamp Rice Grass); *Eichhornea Crassipes* (LN: Jalkumbh; EN: Water Hyacinth); *Nelumbo nucifera* (LN: Kamal; EN: Lotus); *Vallisnaria spiralis* (LN:Panikhar; EN:Tapegrass); *Nymphoides indica*; (LN:Kumudini; EN: Water Snowflake); *Potamogeton nodosus* (LN:Panikhar; EN: Longleaved Pondweed); *Ipomea cornea* (LN: Behaya; EN: Pink Morning Glory).

Major plants in basin

*Bombax cebia* (LN: Simal; HT: Tr; LU: Tm); *Dalbergia sisso* (LN: Sisso; HT: Tr; LU: Fd, Ful, Tm).

Fish

None.

Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto; EN: Frog); <i>Ptyas mucosa</i> (LN: Dhaman; EN: Ratsnake); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common Lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad).
Bird	<i>Alcedo atthis</i> (LN: Matikore; EN: Kingfisher); <i>Bubulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Casmerodius albus</i> (LN: Thulo Setobakulla; EN: Great Egret); <i>Egretta garzetta</i> (LN: Sano Setobakulla; EN: Little Egret); <i>Sarkidiornis clangula</i> (LN: Nakata; EN: Comb Duck); <i>Tyto alba</i> (LN: Latokosero; EN: Owl); <i>Ardeola grayii</i> (LN: Aaskote Bakulla; EN: Pond Herons); <i>Accipiter spp</i> (LN: Baaz; EN: Hawk).
Mammals	None.
Invasive alien species	<i>Eichhornea crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	<i>Phulyangra Chuk</i> ; 20 m from lake; Main Trail: Nepalgunj-Phattepur Highway; 3 km from lake to the main trail
Land use	Agriculture (50%); Settlement (50%);
Demography	Population: About 3429; Male: 1778; Female: 1651; Ethnicity: Muslim 50 %; Tharu 20 %; Others 30%; Major Religion: Muslim.
Jurisdiction/ownership	None.
Wetlands dependent community	None
Livestock in basin	....
Traditional production system	Traditional paddy cultivation; Water well.
Traditional water use practices	Water well.
Cultural record	Noone
Genesis/origin of lake	NA.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Water for livestock; Irrigation; Forage.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; Local transportation service available; Local teashops <i>Tangra Chauk</i> ; Good hotels in Nepalgunj very close to lake; No tourism potential.
<b>G. Lake condition</b>	
	Degraded.

### 3. Terri Tal

Code: P5-D2-003

Toposheet no: 2881 15C

Date of inventory: March, 2015



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 28<sup>07</sup>'17" N; Lon.: 81<sup>0</sup> 34' 19" E; Alt.: 149 masl.

Geographical position

Terai.

Administrative feature

MWDR; Banke district; Rauniyarpur VDC; Ward No. 4; *Bagmatinagar*.

(Current: Khajura Rural Municipality; Ward no. 3)

Boundary

Core Area: Cropland in all direction.

Basin Area: Dhanauli-Bagmatinagar in west; Khajura Bazar-Bagmatinagar road in east; Cropland and Kagau-Bagmatinagar trail in south; Dhanauli-Khajura Bazar road in north.

Management responsibility

VDC.

Wetlands type

Freshwater/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 37.4<sup>0</sup> C (April). Avg. Min.: 13<sup>0</sup> C. Avg. Rainfall: 3710 mm/yr (DDC Profile).

Area

Core Area: 25 ha; Avg. Length: 100m; Avg. Width: 60 km; Avg. Depth: 2 m; Max-Min Surface Water Level: ...- m; Basin Area: 100 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp: 37.0 C, pH: 6; DO: 5.2 mg/l; Transparency:

Soil feature

Grey color; Sandy silt & clay texture.

Shocks/vulnerability

Encroachment; Eutrophication; Weed growth.

Major aquatic plants

*Oryza rufipogon* (LN: Jungalidhan; EN: Wildrice); *Hygrorhiza aristata* (LN: Jangalijhan; EN: Asian Watergrass); *Leersia hexandra* (LN: Haadeghas; EN: Swamp Ricegrass); *Eichhornea crassipes* (LN: Jalkumbh; EN: Water Hyacinth); *Nelumbo nucifera* (LN: Kamal; EN: Lotus).

Major plants in basin

*Bombax cebia* (LN: Simal; HT: Tr; LU: Tm); *Dalbergia sisso* (LN: Sisso; HT: Tr; LU: Fd, Ful, Tm).

Fish

*Labeo rohita* (LN: Rahu; LU: Meat); *Catla catla* (LN: Bhaykur; LU: Meat); *Puntios sarona* (LN: Kande; LU: Meat); *Puntius sticto* (LN: Bhite; LU: Meat);

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Ptyas mucosa* (LN: Dhaman; EN: Ratsnake); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad).

Bird	<i>Alcedo atthis</i> (LN: Matikore; EN: Kingfisher); <i>Bubulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Casmerodius albus</i> (LN: Thulo Setobakulla; EN: Great Egret); <i>Egretta garzetta</i> (LN: Sano Setobakulla; EN: Little Egret); <i>Sarkidiornis clangula</i> (LN: Nakata; EN: Comb Duck); <i>Tyto alba</i> (LN: Latokosero; EN: Owl); <i>Ardeola grayii</i> (LN: Aaskotebakulla; EN: Pond Herons); <i>Accipiter spp</i> (LN: Baaz; EN: Hawk).
Mammals	None.
Invasive alien species	<i>Eichhornea crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	<i>Bagmatinagar</i> ; 100 m from lake; Main trail: Bagmatinagar-Khajura Bazar- Nepalgunj road; 2 km from lake to the main trail.
Land use	Agriculture (100%)
Demography	Population: About 579; Male: 302; Female: 277; Ethnicity: Muslim 80 %; Tharu 10 %; Others 10%; Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None
Livestock in basin	....
Traditional production system	Conventional paddy plantation.
Traditional water use practices	Famer managed canal; Water well.
Cultural record	None
Genesis/origin of lake	NA.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Water for livestock; Forage; Irrigation.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; Frequent public transport from Nepalgunj to Khajura; Teashops in <i>Bagmatinagar</i> ; Few hotels in Khajura Bazar; No tourism potential.
<b>G. Lake condition</b>	
	Degraded.

## 4. Water Park

Code: P5-D2-004

Toposheet no: 2881 15D

Date of inventory: March, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 28°07'62"N; Lon.: 81°62'89"E; Alt.: 129 masl.

Geographical position

Terai.

Administrative feature

MWDR 4; Banke district; Nepalgunj Submetro Politian city; Ward No. 4; *Dhamboji Chauk*.

(Current: Nepalgunj Sub Metropolitan; Ward no. 4)

Boundary

Core Area: Karkadau-Birendrachowk road in west; Crop field in east; south and north.

Basin Area: Karkadau-Birendrachowk road in west; Crop field in east; south and north.

Management responsibility

VDC.

Wetlands type

Freshwater/natural; Lacustrine; permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 37.40 C (April). Avg. Min.: 130 C. Avg. Rainfall: 3710 mm/yr (DDC Profile)

Area

Core area: 10 ha; Avg. Length: 150 m; Avg. Width: 70 m; Avg. Depth: 4 m; Max-Min Surface Water Level: 4 – 1 m; Basin Area: 20 ha.

Water Volume

Volume: NA; Inlet: None. Outlet: None

Water quality

Physicochemical parameter: Temp: 380 C, pH: 7; DO: 5.2 mg/lt; Transparency: 1.5 m.

Soil feature

Grey color; Sandy silt & clay texture.

Shocks/vulnerability

Eutrophication; Urban pollution.

Major aquatic plants

*Eichhornea crassipes* (LN: Jalkumbh; EN: Water Hyacinth); *Nelumbo nucifera* (LN: Kamal; EN: Lotus); *Vallisnaria spiralis* (LN: Panikhar; EN: Tapegrass); *Nymphoides indica*; (LN: Kumudini; EN: Water Snowflake); *Potamogeton nodosus* (LN: Panikhar; EN: Longleaved Pondweed); *Ipomea cornea* (LN: Behaya; EN: Pink Morning Glory).

Major plants in basin

*Bombax cebia* (LN: Simal; HT: Tr; LU: Tm); *Dalbergia sisso* (LN: Sisso; HT: Tr; LU: Fd, Ful, Tm).

Fish

*Labeo rohita* (LN: Rahu; LU: Meat); *Catla catla* (LN: Bhaykur; LU: Meat); *Puntios sarona* (LN: Kande; LU: Meat); *Puntius ticto* (LN: Bhite; LU: Meat);

Herpetofauna

*Rana* spp. (LN: Bhyaguto; EN: Frog); *Ptyas mucosa* (LN: Dhaman; EN: Ratsnake); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad).

Bird	<i>Alcedo atthis</i> (LN: Matikore; EN: Kingfisher); <i>Bubulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Casmerodius albus</i> (LN: Thulo Setobakulla; EN: Great Egret); <i>Egretta garzetta</i> (LN: Sano Setobakulla; EN: Little Egret); <i>Sarkidiornis clangula</i> (LN: Nakata; EN: Comb Duck); <i>Tyto alba</i> (LN: Latokosero; EN: Owl); <i>Ardeola grayii</i> (LN: Aaskote Bakulla; EN: Pond Herons); <i>Accipiter spp</i> (LN: Baaz; EN: Hawk).
Mammals	None.
Invasive alien species	<i>Eichhornea crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	<i>Dhambojee Chock</i> 100 m from lake; Main trail: Nepalgunj-Kohalpur road; 100 m from lake to the main trail.
Land use	Agriculture (10%); Settlement (90%)
Demography	Population: About 1823; Male: 938; Female: 885; Ethnicity: Muslim 80 %; Tharu 10 %; Others 10%; Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock in basin	....
Traditional production system	Traditional paddy plantation.
Traditional water use practices	Community canal; Water well.
Cultural record	None
Genesis/origin of lake	None
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Irrigation; Water for livestock; Forage.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; Public transportation available; Restarurant and teashops available; Good hotels, market center, bank a security post; Moderate tourism potential; Needs infrastrure development and promotional activities.
<b>G. Lake condition</b>	
	Degrading.

## Annex-43: Inventory of lakes in Bardiya district

### 1. BadaiyaTal

Code: P5-D3-001

Toposheet no: 2881 15A

Date of inventory: March, 2015



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28°19'927" N; <u>Lon</u> : 81°51'110" E; <u>Alt.</u> : 143 masl.
Geographical position	Terai.
Administrative feature	MWDR; Bardiya district; Sorhawa VDC; Ward- 2; <i>Badhaiya</i> . (Current: Badhaiyatal Rural Municipality; Ward no. 5)
Boundary	<u>Core Area</u> : Cropland in west; Private pond in west; Badhaiya village in south; Cropland in north. <u>Basin Area</u> : Jagatiya-Jagatpur-Badaiya road in west; Siktirihar-Phulbari-Sorhawaroad in east; Cropland and Badaiya-Sadhupurwa trail in south; Cropland in north.
Management responsibility	DDC.
Wetlands type	Freshwater/natural; Lacustrine; Permanent

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 37.4° C (April). <u>Avg. Min.</u> : 13° C. <u>Avg. Rainfall</u> : 3710 mm/yr (DDC Profile)
Area	<u>Core Area</u> : 61 ha; Avg. Length: 2 km; Avg. Width: 1 km; Avg. Depth: 8 m; Max-Min Surface Water Level: 3 -1 m; <u>Basin Area</u> : 120 ha.
Water Volume	Volume: NA; Inlet: Outlet:
Water quality	Physicochemical parameter: Temp: 350 C, pH: 7; DO: 5.2 mg/l; Transparency: 1.5 m.
Soil feature	Grey color; Sandy silt & clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<i>Oryza rufipogon</i> (LN: Jungalidhan; EN: Wildrice); <i>Hygrorhiza aristata</i> (LN: Jangalijhan; EN: Asian Watergrass); <i>Leersia hexandra</i> (LN: Haadeghas; EN: Swamp Ricegrass); <i>Eichhornea crassipes</i> (LN: Jalkumbh; EN: Water Hyacinth); <i>Ipomea cornea</i> (LN: Behaya; EN: Pink Morning Glory).
Major plants in basin	<i>Bombax cebia</i> (LN: Simal; HT: Tr; LU: Tm); <i>Dalbergia sisso</i> (LN: Sisso; HT: Tr; LU: Fd, Ful, Tm).
Fish	<i>Labeo rohita</i> (LN: Rahu; LU: Meat); <i>Catla catla</i> (LN: Bhaykur; LU: Meat); <i>Puntios sarona</i> (LN: Kande; LU: Meat).
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto; EN: Frog); <i>Ptyas mucosa</i> (LN: Dhaman; EN: Ratsnake); <i>Calotes versicolor</i> (LN: Cheparo;

	EN: Common Lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad).
Bird	<i>Grus antigone</i> (LN: Saras; EN: Sarus Crane); <i>Alcedo atthis</i> (LN: Matikore; EN: Kingfisher); <i>Bubulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Casmerodius albus</i> (LN: Thulosebakulla; EN: Great Egret); <i>Egretta garzetta</i> (LN: Sanosetobakulla; EN: Little Egret); <i>Sarkidiornis clangula</i> (LN: Nakata; EN: Comb Duck); <i>Tyto alba</i> (LN: Latokosero; EN: Owl); <i>Ardeol agrayii</i> (LN: Aaskotebakulla; EN: Pond Herons); <i>Accipiter spp</i> (LN: Baaz; EN: Hawk).
Mammals	None.
Invasive alien species	<i>Eichhornea crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	<i>Badhaiya</i> ; 100 m from lake; Main Trail: Sorhawa-Badhaiya-Mahendra Highway road; 7 km from lake to the main trail.
Land use	Agriculture (90%); Wetlands (10%);
Demography	Population: About 1888; Male: 927; Female: 961; Ethnicity: Tharu 90 %; Others 10%; Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock in basin	....
Traditional production system	Traditional rice plantation.
Traditional water use practices	Famer managed Kulo; Water well.
Cultural record	Badaiya Devi temple.
Genesis/origin of lake	NA.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	None Irrigation; Traditional fishery; Water for livestock; Forage.
Cultural services	Aesthetic; Recreational; Religious visitors in temple; Mela in Chhait.
<b>E. Restoration/Management</b>	
Structural management	Earthen dam; Ocassional plantation.
None-structural management	Volunteer restriction for open fishing.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	>2000 religius annual visitors; Public transport available teashops and small hotels in <i>Badhiya</i> ; Moderate tourism potential; Needs infrastructure development and tourism promotional activities.
<b>G. Lake condition</b>	
	Good.



## 2. GonanaTaal

Code: P5-D3-002

Toposheet no: 2881-15A

Date of inventory: March, 2015



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.:</u> 28°43'501" N; <u>Lon.:</u> 81°10'894" E; <u>Alt.:</u> 142 masl.
Geographical position	<u>Terai.</u>
Administrative feature	MWDR; Bardiya district; Rajapur VDC; Ward No. 4; <i>Rajapur.</i> (Current: Lamkichuha Municipality; Ward no. 6)
Boundary	<u>Core Area:</u> Cropland in all direction. <u>Basin Area:</u> Tediya-Rajapur road in west; Cropland in east and south; Tediya-Muraiya road in north.
Management RESPONSIBILITY	DDC Bardiya.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.:</u> 37.4° C (April). <u>Avg. Min.:</u> 13° C. <u>Avg. Rainfall:</u> 3710 mm/yr (DDC Profile).
Area	<u>Core area:</u> 5 ha; Avg. Length: 100m; Avg. Width: 30 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 2-1 m; <u>Basin Area:</u> 120 ha.
Water Volume	<u>Volume:</u> NA; <u>Inlet:</u> None; <u>Outlet:</u> None.
Water quality	<u>Physicochemical parameter:</u> Temp: 38° C, pH: 6; DO: 5.2 mg/lt; Transparency: 1.5 m.
Soil feature	Grey color; Sandy silt & clay texture.
Shocks/vulnerability	Encroachment.
Major aquatic plants	<i>Oryza rufipogon</i> (LN: Jungalidhan; EN: Wildrice); <i>Hygrorhiza aristata</i> (LN: Jangalidhan; EN: Asian Watergrass); <i>Leersiahexandra</i> (LN: Haadeghas; EN: Swamp Ricegrass).
Major plants in basin	.....
Fish	Labeorohita (LN: Rahu; LU: Meat); CatlaCatla (LN: Bhaykur; LU: Meat); Puntios saroni (LN: Kande; LU: Meat).
Herpetofauna	Rana spp. (LN: Bhyaguto); Ptyas mucosa (LN: Dhaman; EN: Ratsnake); <i>Calote sversicolor</i> (LN: Cheparo; EN: Common Lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad).
Bird	<i>Alcedo atthis</i> (LN: Matikore; EN: Kingfisher); <i>Bubulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Casmerodius albus</i> (LN: Thulo Setobakulla; EN: Great Egret); <i>Egretta garzetta</i> (LN: Sano Setobakulla; EN: Little Egret); <i>Sarkidiornis clangula</i> (LN: Nakata; EN: Comb Duck); <i>Tyto alba</i> (LN: Latokosero; EN: Owl); <i>Ardeola grayii</i> (LN: Aaskotebakulla; EN: Pond Herons); <i>Accipiter spp</i> (LN: Baaz; EN: Hawk).
Mammals	None.
Invasive alien species	<i>Eichhornea crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None

### **C. Socio-Economy at Basin**

Nearby settlement	<i>Idaipur</i> ; 500m from lake; Main Trail: Rajapur- Tapara road; 2 km from lake to the main trail.
Land use	Agriculture (100%)
Demography	Population: About 1639; Male: 830; Female: 773; Ethnicity: Tharu 90%; Others 10%; Major Religion: Hindu.
Jurisdiction/ownership	None.
Wetlands dependent community	None
Livestock in basin	...
Traditional production system	Traditional fishery; Conventional paddy cultivation.
Traditional water use practices	Famer managed irrigation canal.
Cultural record	None.
Genesis/origin of lake	Extensive clay mining for pottery and house materials increased depression land filled with water and formed lake later.

### **D. Ecosystem Goods/Services**

Provisional services	Fishery; Irrigation; Water for livestock; Forage.
Cultural services	None.

### **E. Restoration/Management**

Structural management	Earthen dam.
None-structural management	None
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

No visitors; Public transportation up to Rajapur available; Teashops, restaurant, communication facilities, bank service and security services in Rajapur; No tourism potential.

### **G. Lake condition**

Good.

### 3. TaraTaal

Code: P5-D3-003

Toposheet no: 2881-15B

Date of inventory: March, 2015



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 28°28'358" N; Lon.: 81°24'532" E; Alt.: 152 masl.

Geographical position

Terai.

Administrative feature

MWDR; Bardiya district; TaraTaal VDC-2; *Taratal*

Boundary

Core Area: Cropland in west; east and south; Takeshwari Temple in north.

Management Responsibility

Tara Taal VDC.

Wetlands type

Freshwater/natural; Lacustrine; permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 37.40 C (April). Avg. Min.: 130 C. Avg. Rainfall: 3710 mm/yr (DDC Profile).

Area

Core Area: 1 ha; Avg. Length: 50 m; Avg. Width: 40 m; Avg. Depth: 2 m; Max-Min Surface Water Level: m; Basin Area: 5 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: None

Water quality

Physicochemical parameter: Temp: 370 C, pH: 6; DO: 5.2 mg/l; Transparency: 1.5 m;

Soil feature

Grey color; Sandy silt & clay texture.

Shocks/vulnerability

Encroachment; Eutrophication; Invasion from weeds.

Major aquatic plants

*Oryza rufipogon* (LN: Jungalidhan; EN: Wildrice); *Hygrorhiza aristata* (LN: Jangalidhan; EN: Asian Watergrass); *Leersia hexandra* (LN: Haadeghas; EN: Swamp Ricegrass).

Major plants in basin

*Bombax cebia* (LN: Simal; HT: Tr; LU: Tm); *Dalbergia sisso* (LN: Sisso; HT: Tr; LU: Fd, Ful, Tm).

Fish

None.A

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Ptyas mucosa* (LN: Dhaman; EN: Ratsnake); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad).

Bird

*Alcedo atthis* (LN: Matikore; EN: Kingfisher); *Bubulcus ibis* (LN: Bakulla; EN: Cattle Egret); *Casmerodius albus* (LN: Thulo Setobakulla; EN: Great Egret); *Egretta garzetta* (LN: Sano Setobakulla; EN: Little Egret); *Sarkidiornis clangula* (LN: Nakata; EN: Comb Duck); *Tyto alba* (LN: Latokosero; EN: Owl); *Ardeola grayii* (LN: Aaskotebakulla; EN: Pond Herons); *Accipiter spp* (LN: Baaz; EN: Hawk).

Mammals

None.

Invasive alien species

*Eichhornea crassipes* (LN: Jalkumbhi; EN: Water Hyacinth).

Endemic plant/animal

None

### **C. Socio-Economy at Basin**

Nearby settlement	<i>Taratal</i> ; 100 m from lake; Main Trail: <i>Taratal</i> -Shantipur road; 3km from lake to the main trail.
Land use	Agriculture (90%); Settlements (10%).
Demography	Population: About 640; Male: 308; Female: 332; Ethnicity: Chhetri 40 %; Brahaman 40%; Tharu 10%; Others 10%; Major Religion: Hindu.
Jurisdiction/ownership	None.
Wetlands dependent community	None
Livestock in basin	
Traditional production system	Traditonal fish farming; Conventional paddy cultivation.
Traditional water use practices	Famer managed irrigation canal; Water well.
Cultural record	Tara temple.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Water for biodiversity; Timber; Fuelwood; Fodder.
Cultural services	Fair in <i>Maghesankranti</i> .

### **E. Restoration/Management**

Structural management	Boundary around lake; Afforestation.
None-structural management	Entry fee in practice; Restriction for open fishing.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

>1000 annual visitors during festival; Public transportation available; Local teashops in *Taratal*; Night stay facilities in *Taratal*; Low tourism potential.

### **G. Lake condition**

Degraded.

## Annex-44: Inventory of lakes in Dang district

### 1. Barhakune Tal

Code: P5-D4-001

Toposheet no: N/A

Date of inventory: April, 2015



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.:</u> 28 <sup>00</sup> 4'25.2"N; <u>Lon.:</u> 82 <sup>00</sup> 29'08.21"E; Alt.: 739 masl.
Geographical position	Midlands.
Administrative feature	MWDR; Dang district; Ghorahi Municipality-7. (Current: Ghorahi Sub Metropolitan; Ward no. 13)
Boundary	Core Area: Local road in west; Forest in east; Baraha Temple in south; cultivation land in north. <u>Basin Area:</u> Settlements of Ghorahi Municipality ward no. 7 in all directions.
Management responsibility	Ghorahi Municipality.
Wetlands type	Freshwater/natural; Lacstrine; Perennial.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.:</u> 35 <sup>0</sup> C (May). <u>Avg. Min.:</u> 5 <sup>0</sup> C (Jan). <u>Avg. Rainfall:</u> 1266.3-1779.5 mm/yr (DDC Profile)
Area	<u>Core Area:</u> >1 ha; Avg. Length: 80 m; Avg. Width: 70 m; Avg. Depth: 3 m; Max-Min Surface Water Level: 8-3 m; <u>Basin Area:</u> 45 ha.
Water Volume	<u>Volume:</u> NA; <u>Inlet:</u> None; <u>Outlet:</u> None.
Water quality	<u>Physicochemical parameter:</u> Temp: 30 <sup>0</sup> C, pH: 8; Transparency: 1 m.
Soil feature	Dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	Not observed.
Major plants in basin	<i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: Tm); <i>Dalbergia sissoo</i> (LN: Siso; HT: Tr; LU: Tm); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fruit); <i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm).
Fish	<i>Hypophthalmichthys molitrix</i> (LN: Silver Carp Carp, LU: Meat), <i>Anguilla sp.</i> (LN: Bam; EN: Eel; LU: Meat).
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto; EN: Frog); <i>Calotes versicolor</i> (LN: Cheparo; EN: (Common Lizard).
Bird	<i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Casmerodius albus</i> (EN: Great Egret; LN: Bakulla); <i>Eudynamys scolopaceus</i> (LN: Koili; EN: Asian Koel).
Mammals	<i>Oryctolagus sp</i> (LN: Kharayo; EN: Rabbit); <i>Canis sp</i> (LN: Syal; EN: Jackal); <i>Macaca mullata</i> (LN: Bandar; EN: Monkey).

Invasive alien species	<i>Lantena camara</i> (LN: Banmara; EN: Forest Killer); <i>Eupatorium adenophorum</i> (LN: Kalobanmara; EN: Mexican Devil).
Endemic plant/animal	None
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Barahachhetra (Sewar); 500 m from lake; Main trail: Ghorahi-Holeri road; 500 m from lake to the main trail.
Land use	Forest land (40%); Agriculture (34%); Shrubland (5%); Settlement (15%); Grass land (5%); Wetland (1%).
Demography	Population: 3011; Male: 1333; Female: 1678; HHs: 231; Ethnicity: Janajati (30%); Brahmin/Chhetri (60%); Dalit (10%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	Traditional paddy cultivation; Farmer managed canal.
Traditional water use practices	None.
Cultural record	Barahi temple.
Genesis/origin of lake	Natural water body.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	None.
Cultural services	Aesthetic and scenic; Recreational (boating) and Religious site (Barahi temple).
<b>E. Restoration/Management</b>	
Structural management	Concrete dam around lakeshore.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	>25,000 annual visitors; Public transportation available; Hotels with accommodation facilities available; Travel agencies, banks and market centers in Ghorahi Bazaar (about 7 km from lake); Low tourism potential.
<b>G. Lake condition</b>	
	Good.

## 2. Bhote Daha

Code: P5-D4-002

Toposheet no: 2782 03A

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°59'51.08" N; Lon.: 82°33'23.28" E; Alt.: 791 masl.

Geographical position

Midlands.

Administrative feature

MWDR; Dang district; Rampur VDC-7; Adduwabari.

(Current: Ghorahi Sub Metropolitan; Ward no. 1)

Boundary

Core Area: Forests in all direction.

Basin Area: Cropfield (sandy) in west; Bhotedanda in east; Extension of Bhotedanda in south and north (Ward no. 7).

Management responsibility

Rampur VDC.

Wetlands type

Freshwater/natural; Lacustrine; Perennial.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 35° C (May). Avg. Min.: 5° C (January).

Avg. Rainfall: 1266.3-1779.5 mm/yr (DDC Profile).

Area

Core Area: >1 ha; Avg. Length: 200 m; Avg. Width: 50 m; Avg. Depth: 3 m; Max-Min Surface Water Level: 4-2 m;

Basin Area: 40 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: Irrigation Canal.

Water quality

Physicochemical parameter: Temp: 30° C, pH: 8; Transparency: 1 m.

Soil feature

Grey color; Sandy silt & loam texture.

Shocks/vulnerability

None.

Major aquatic plants

Not observed.

Major plants in basin

*Bombax ceiba* (LN: Simal, HT: Tr, LU: Fd, Ful); *Shorea robusta* (LN: Saal; HT: Tr; LU: Tm); *Dalbergia sissoo* (LN: Sisam; HT: Tr; LU: Tm); *Terminalia elliptica* (LN: Saaj; HT: Tr, LU: Tm, Ful, Fd)

Fish

Not observed

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad); *Naja naja* (LN: Nag, EN: Indian Cobra); *Orthriophis hodgsonii* (LN: Hariyo Sarpa; EN: Green Snake).

Bird

*Anser indicus* (LN: Haans; EN: Duck); *Casmerodius albus* (EN: Great Egret; LN: Bakulla), *Grus grus* (LN: Sarus; EN: Sarus Crane); *Phalacrocorax carbo* (EN: Great Cormorant, LN: Jalewa).

Mammals

*Panthera pardus* (LN: Chitwa; EN: Leopard); *Oryctolagus sp* (LN: Kharayo; EN: Rabbit); *Canis sp* (LN: Syal; EN: Jackal); *Macaca mullata* (LN: Bandar; EN: Monkey); *Hystrix indica* (LN: Dumsi; EN: Porcupine)

Invasive alien species	Lantena <i>camara</i> (LN: Banmara; EN: Forest killer).
Endemic plant/animal	None
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Aduwabari; 1 km from lake; Main trail: Ghorahi-Rampur-Surkedagi road; Approx. 3 km from lake to the main trail (Rampur).
Land use	Forest land (60%); Agriculture (30%); Shrubland (4%); Settlement (5%); Wetland (1%).
Demography	Population: 1097; Male: 461; Female: 636; HHs: 231; Ethnicity: Janajati (20%); Brahmin/Chhetri (75%); Dalit (5%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None
Livestock at basin	>1,000.
Traditional production system	Terrace farming; Conventional paddy plantation.
Traditional water use practices	Farmer managed community irrigation canal.
Cultural record	None.
Genesis/origin of lake	Natural water body.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Irrigation; Water for livestock and wildlife; Fodder & forage; Timber; Fuelwood and NTFPs.
Cultural services	Aesthetic and scenic.
<b>E. Restoration/Management</b>	
Structural management	Small concrete dam.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	>2000 annual visitors; Public transportation available up to Rampur; Local teashops in Rampur; Moderate hotels with accommodation facilities in Ghrahi (About 7 km from lake); No tourism potential.
<b>G. Lake condition</b>	Good.



### 3. Charinge Daha

Code: P5-D4-003

Toposheet no: 2782 03A

Date of inventory: April, 2015



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°59'35.08" N; Lon.: 82°33'37.85" E; Alt.: 785 masl.

Geographical position

Midlands.

Administrative feature

MWDR; Dang district; Rampur VDC-7; Buke.

(Current: Ghorahi Sub Metropolitan; Ward no. 13)

Boundary

Core Area: Sal forest in all direction.

Management responsibility

Basin Area: Charinge CF (Rampur-7) in all direction.

Wetlands type

Charinge CF.

Freshwater/natural; Lacustrine; Perennial.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 35° C (May). Avg. Min.: 5° C (January).

Avg. Rainfall: 1266.3-1779.5 mm/yr (DDC Profile).

Area

Core Area: 1.5 ha; Avg. Length: 250 m; Avg. Width: 100 m; Avg. Depth: 3 m; Max-Min Surface Water Level: 4-2 m; Basin Area: 30 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: Irrigation canal.

Water quality

Physicochemical parameter: Temp: 24° C, pH: 6; Transparency: 0.5 m.

Soil feature

Grey color; Sandy clay loam texture.

Shocks/vulnerability

None

Major aquatic plants

Not observed

Major plants in basin

*Bombax ceiba* (LN: Simal, HT: Tr, LU: Fd, Ful); *Shorea robusta* (LN: Sal; HT: Tr; LU: Tm); *Dalbergia sissoo* (LN: Sisam; HT: Tr; LU: Tm)

Fish

Not observed.

Herpetofauna

*Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad); *Naja naja* (LN: Nag, EN: Indian Cobra); *Orthriophis hodgsonii* (LN: Hariyo sarpa; EN: Green Snake).

Bird

*Casmerodius albus* (EN: Great Egret; LN: Bakulla), *Grus grus* (LN: Sarus; EN: Sarus Crane); *Phalacrocorax carbo* (EN: Great cormorant, LN: Jalewa);

Mammals

*Panthera pardus* (LN: Chitwa; EN: Leopard); *Oryctolagus sp* (LN: Kharayo; EN: Rabbit); *Canis sp* (LN: Syal; EN: Jackal); *Macaca mullata* (LN: Bandar; EN: Monkey); *Hystrix indica* (LN: Dumsi; EN: Porcupine)

Invasive alien species

*Lantana camara* (LN: Banmara; EN: Forest Killer; Bitter Vine).

Endemic plant/animal

None

### **C. Socio-Economy at Basin**

Nearby settlement	Buke; 300 m from lake; Main trail: Ghorahi-Rampur-Tarigau road; 1.5 km from lake to the main trail (Tarigau).
Land use	Forest land (60%); Agriculture (30%); Shrubland (4%); Settlement (5%); Wetland (1%).
Demography	Population: 1097; Male: 461; Female: 636; HHs: 231; Ethnicity: Janajati (20%); Brahmin/Chhetri (75%); Dalit (5%); Major Religion: Hindu.
Jurisdiction/ownership	Community Forest
Wetlands dependent community	None.
Livestock at basin	>1,000.
Traditional production system	Terrace farming; Conventional paddy cultivation.
Traditional water use practices	Famer managed irrigation canal.
Cultural record	none.
Genesis/origin of lake	NA

### **D. Ecosystem Goods/Services**

Provisional services	Irrigation; Water for livestock and wildlife; Fodder & forage; Timber; Fuelwood and NTFPs.
Cultural services	Aesthetic and scenic; Visitors for recreation.

### **E. Restoration/Management**

Structural management	Concrete dam at outlet.
None-structural management	None.
Conservation plan	None.
Monitoring plan	Monitoring plan of DDC.

### **F. Tourism information**

>5000 annual visitors; Picnic spots; Local teashops in Bahuntari and Surkedagi; Public transportation available from Ghorahi to Surkedagi; Hotel with accommodation facilities, travel agencies and market centers in Ghorahi (about 1.5 hr. drive from lake); Low tourism potential.

### **G. Lake condition**

Good.

## 4. Gauri Tal

Code: P5-D4-004

Toposheet no: 2882-14C

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 28°06'01.85" N; Lon.: 82°16'02.81" E; Alt.: 607 masl.

Geographical position

Midlands.

Administrative feature

MWDR; Dang district; Tulsipur Municipality-13 (Formerly Tarigau VDC-5); Gairigau.

(Current: Tulsipur Municipality; Ward no. 13)

Boundary

Core Area: Cultivation area in all direction.

Basin Area: Manaidanda-Gairigau trail following drainage of Patu Khola (south) in west; Tulsipur-Gairigau road in east; Cropfield and linktrail connecting Tulasipur-Gairigau road and Manaidanda-Gairigau (Municipality-13).

Management responsibility

Municipality.

Wetlands type

Freshwater/Man-made; Lacustrine; Perennial.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 35° C (May). Avg. Min.: 5° C (January).  
Avg. Rainfall: 1266.3-1779.5 mm/yr (DDC Profile).

Area

Core Area: 6.5 ha; Avg. Length: 400 m; Avg. Width: 130 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 3-1,5 m; Basin Area: 70 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: *Padda Kulo*.

Water quality

Physicochemical parameter: Temp: 29°C, pH: 7; Transparency: 1 m.

Soil feature

Grey; color; Sandy loam texture.

Shocks/vulnerability

Flood hit in rainy season.

Major aquatic plants

Not observed.

Major plants in basin

*Bombax ceiba* (LN: Simal, HT: Tr, LU: Fd, Ful); *Shorea robusta* (LN: Saal; HT: Tr; LU: Tm); *Eucalyptus spp.* (LN: Lyptis; HT: Tr; LU: Tm); *Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful); *Dalbergia sissoo* (LN: Sisam; HT: Tr; LU: Tm, Ful).

Fish

*Cyprinus Carpio* (LN: Common Carp; LU: Meat); *Labeo rohita* (LN: Rahu; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver Carp Carp; LU: Meat); *Ctenopharynx godonidella* (LN: Grass Carp; LU: Meat); *Cirrhinus mrigala* (LN: Naini; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad); *Naja naja* (LN: Nag; EN: Indian Cobra); *Orthriophis hodgsonii* (LN: Hariyosarpa; EN: Green Snake).

Bird	<i>Anserindicus</i> (LN: Haans; EN: Duck); <i>Casmerodius albus</i> (EN: Great Egret; LN: Bakulla); <i>Grus grus</i> (LN: Sarus; EN: Sarus Crane).
Mammals	<i>Chiroptera</i> (LN: Chamero; EN: Bat); <i>Canis sp</i> (LN: Syal; EN: Jackal).
Invasive alien species	<i>Lantana camara</i> (LN: Lahare Banmara; EN: Bitter Vine).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Gaurigaun; 50 m from lake; Main Trail: Tulsipur-Tarigau road; 50 m from lake to the main trail.
Land use	Forest land (5%); Agriculture (87%); Settlement (5%); Wetland (2%).
Demography	Population: 1178; Male: 516; Female: 662; HHs: 261 (Census 2011); Ethnicity: Janajati (60%); Brahmin/Chhetri (35%); Dalit (5%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>1500.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	Community managed irrigation canal in basin.
Cultural record	None.
Genesis/origin of lake	Man-made.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Pan fishery; Water for livestock; Commercial fish farming; Fuelwood; Fodder/forage.
Cultural services	Aesthetic and scenic.

### E. Restoration/Management

Structural management	Small dam at outlet.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

>2000 annual visitors; Public transportation from Tulasipur available; Local teashos in Gairigau; No hotels at site but in Tulsipur with accommodation facilities (about 10 km from lake); Low tourism potential.

### G. Lake condition

Degrading.

Mammals	<i>Herpstes sp.</i> (LN: Nyaurimuso; EN: Mongoose); <i>Canis sp.</i> (LN: Syal; EN: Jackal).
Invasive alien species	<i>Lantena camara</i> (LN: Banmara; EN: Bitter Vine).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Ketuki Sewar; 50 m from lake; Main Trail: Narayanpur-Dhikpur road; 2 km from lake to the main trail.
Land use	Forest land (13%); Agriculture (80%); Settlement (5%); Wetland (2%).
Demography	Population: 1391; Male: 639; Female: 752; HHs: 294; Ethnicity: Janajati 10%; Brahmin/Chettri 85%; Dalit 5%; Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>1000
Traditional production system	Conventional paddy plantation.
Traditional water use practices	Community managed irrigation system.
Cultural record	None.
Genesis/origin of lake	Dammed in <i>Laraina Khola</i> .
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Irrigation; Water for livestock and biodiversity; Timber; NTFPs; Fuelwood; Fodder/forage.
Cultural services	Aesthetic and scenic.
<b>E. Restoration/Management</b>	
Structural management	Concrete dam; Irrigation canal.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; Scenic and may have tourism potential; Need explorative study.
<b>G. Lake condition</b>	
	Good.

Bird	<i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Casmerodius albus</i> (EN: Great Egret; LN: Bakulla); <i>Grus grus</i> (LN: Sarus; EN: Sarus Crane).
Mammals	<i>Pantherapardus</i> (LN: Chitwa; EN: Leopard); <i>Oryctolagus sp</i> (LN: Kharayo; EN: Rabbit); <i>Canis sp</i> (LN: Syal; EN: Jackal); <i>Sus scrofa</i> (LN: Bandel; EN: Wildboar); <i>Melursus ursinus</i> (LN: Bhalu; EN: Bear).
Invasive alien species	<i>Lantena camara</i> (LN: Banmara; EN: Bitter Vine).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Musandi; 50 m from lake; Main Trail: Shreegau-Musandi road; 100 m from lake to the main trail.
Land use	Forest land (50%); Agriculture (38%); Shrubland (5%); Settlement (4%); Wetland (3%).
Demography	Population: 3,146; Male: 1521; Female: 1625; HHs: 624; Ethnicity: Janajati50%; Brahmin/Chetri40%; Dalit 10%; Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None
Livestock at basin	>1500.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	None.
Cultural record	Barahi temple at island of lake.
Genesis/origin of lake	Natural.

### D. Ecosystem Goods/Services

Provisional services	Commercial fishery; Fuelwood; Fodder/forage; Timber; NTFPs.
Cultural services	Aesthetic and scenic; Recreational (boating/water sport); Educational services; Local fair during cultural event; Religious site.

### E. Restoration/Management

Structural management	Afforestation in 6 ha.
None-structural management	None
Conservation plan	None
Monitoring plan	None

### F. Tourism information

>0.2 million annual visitors; Local teashops in Musundi; Good access for transportation from highway (2 km south from lake); Many good hotels with accommodation facilities in Lamahi (7 km from lake); High tourism potential; Needs improvement in infrastructure and tourism promotional activities.

### G. Lake condition

Good.

## 6. Laraina Tal

Code: P5-D4-006

Toposheet no: 2882 09A

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 28°02'48.67"N; Lon.: 82°22'43.23"E; Alt.: 595 m masl.

Geographical position

Midlands.

Administrative feature

MWDR; Dang district; Tripur Municipality-10; Dhikpur.

Boundary

Core Area: Forest in west; Agricultural land in east; Concrete dam in south; Agricultural land in north.

Basin Area: Dhikpur VDC ward no. 1.

Management responsibility

Dhikpur VDC.

Wetlands type

Man made; Water storage tank.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 35° C (May). Avg. Min.: 5° C (January).

Avg. Rainfall: 1266.3-1779.5 mm/yr (DDC Profile).

Area

Core Area: 2 ha; Avg. Length: 500 m; Avg. Width: 50 m;

Avg. Depth: 6 m; Max-Min Surface Water Level: 9-5 m;

Basin Area: 50 ha.

Water Volume

Volume: NA; Inlet: Laraina Khola; Outlet: Laraina Khola, Irrigation Canal.

Water quality

Physicochemical parameter: Temp: 24° C, pH: 6; Transparency: 2 m.

Soil feature

Grey color; silt & loam texture.

Shocks/vulnerability

None.

Major aquatic plants

*Hygrorhiza aristata* (LN: Jangalidhan; EN: Wildrice; HT: Em); *Leersia hexandra* (LN: Haadeghas; EN: Swamprice Grass; HT: Em); *Typha angustifolia* (LN: Pater; EN: Narrowleaved Cattail; HT: Em).

Major plants in basin

*Bombax ceiba* (LN: Simal, HT: Tr, LU: Fd, Ful); *Shorea robusta* (LN: Saal; HT: Tr; LU: Tm); *Eucalyptus spp.* (LN: Lyptis; HT: Tr; LU: Tm); *Dalbergia sissoo* (LN: Sisam; HT: Tr; LU: Tm, Ful); *Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm)

Fish

*Clarius batarachus* (LN: Mangur; EN; Walking catfish).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad); *Naja naja* (LN: Nag, EN: Indian Cobra); *Orthriophis hodgsonii* (LN: Hariyo Sarpa; EN: Green Snake)

Bird

*Anser indicus* (LN: Haans; EN: Duck); *Casmerodius albus* (EN: Great Egret; LN: Bakulla); *Phalacrocorax carbo* (EN: Great Cormorant, LN: Jalewa); *Chalcophaps indica* (EN: Emerald Dove; LN: Dhukur)

Mammals	<i>Herpstes sp.</i> (LN: Nyaurimuso; EN: Mongoose); <i>Canis sp.</i> (LN: Syal; EN: Jackal).
Invasive alien species	<i>Lantena camara</i> (LN: Banmara; EN: Bitter Vine).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Ketuki Sewar; 50 m from lake; Main Trail: Narayanpur-Dhikpur road; 2 km from lake to the main trail.
Land use	Forest land (13%); Agriculture (80%); Settlement (5%); Wetland (2%).
Demography	Population: 1391; Male: 639; Female: 752; HHs: 294; Ethnicity: Janajati 10%; Brahmin/Chettri 85%; Dalit 5%; Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>1000
Traditional production system	Conventional paddy plantation.
Traditional water use practices	Community managed irrigation system.
Cultural record	None.
Genesis/origin of lake	Dammed in <i>Laraina Khola</i> .
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Irrigation; Water for livestock and biodiversity; Timber; NTFPs; Fuelwood; Fodder/forage.
Cultural services	Aesthetic and scenic.
<b>E. Restoration/Management</b>	
Structural management	Concrete dam; Irrigation canal.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; Scenic and may have tourism potential; Need explorative study.
<b>G. Lake condition</b>	
	Good.



## 7. Patkhauli Tal

Code: P5-D4-007

Toposheet no: 2882 14C

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 28°03'47.8" N; Lon.: 82°18'56.64" E; Alt.: 593 masl.

Geographical position

Midlands.

Administrative feature

MWDR; Dang district; Duruwa VDC-6; Patkhauli.

Boundary

Core Area: Agricultural land in east, west and north; Concrete dam in south.

Management responsibility

Basin Area: Duruwa VDC ward no. 6 and 1.

Wetlands type

Kanjwar Irrigation Canal User Committee.

Man made; Water storage tank.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 35° C (May). Avg. Min.: 5° C (January).

Avg. Rainfall: 1266.3-1779.5 mm/yr (DDC Profile).

Area

Core Area: 0.5 ha; Avg. Length: 150 m; Avg. Width: 30 m; Avg. Depth: 5 m; Max-Min Surface Water Level: 6-4m;

Basin Area: 50 ha.

Water Volume

Volume: NA; Inlet: Guhar Khola; Outlet: Irrigation canal.

Water quality

Physicochemical parameter: Temp: 20° C, pH: 6; Transparency: 1 m.

Soil feature

Grey color; clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

*Hygrorrhiza aristata* (LN: Jangalidhan; EN: Wildrice; HT: Em).

Major plants in basin

*Dendrocalamus sp.* (LN: Bans; EN: Bamboo; HT: Gr, LU: Fodder, handicraft, house materials); *Leucaena leucocephala* (LN: Epil Epil; HT: Sh; LU: Fd, Ful, Green manure); *Magnifera indica* (LN: Aanp; EN: Mango; HT: Tr; LU: Fruit); *Syzygium cumini* (LN: Jamun; HT: Tr; LU: Tm, Fd, Fruit).

Fish

*Ctenopharyngodon idella* (EN: Grass Carp); *Hypophthalmichthys molitrix* (EN: Silver Carp); *Cyprinus Carpio* (EN: Common Carp).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad); *Naja naja* (LN: Nag, EN: Indian Cobra); *Orthriophis hodgsonii* (LN: Hariyo Sarpa; EN: Green Snake).

Bird

*Anser indicus* (LN: Haans; EN: Duck); *Casmerodius albus* (EN: Great Egret; LN: Bakulla); *Phalacrocorax carbo* (LN: Jalewa; EN: Great Cormorant); *Chalcophaps indica* (EN: Emerald Dove; LN: Dhukur).

Mammals	Canis sp. (LN: Syal; EN: Jackal); Herpstes sp. (LN: Nyaurimuso; EN: Mongoose)
Invasive alien species	None.
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Patkhauli; 100 m from lake; Main trail: Tulsipur-Malbijauri-Duruwa road (Tulsipur-Ghorahi section); 2 km from lake to the main trail.
Land use	Forest land (4%); Agriculture (90%); Settlement (5%); Wetland (1%).
Demography	Population: 3551; Male: 1595; Female: 1956; HHs: 789; Ethnicity: Janajati 25%; Brahmin/Chetri70%; Dalit 5%; Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	Community managed irrigation canal.
Cultural record	None.
Genesis/origin of lake	Dammed to Guhar Khola.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Irrigation; Fishery; Fuelwood; Fodder/forage.
Cultural services	Aesthetic and scenic.
<b>E. Restoration/Management</b>	
Structural management	Concrete dam.
None-structural management	Informal rules of Kanjwar Irrigation Canal User Committee.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; Local transportation available; No local teashop and rest places in lake site; Hotels in Tulsipur (About 23 km from lake to Tulsipur); No tourism potential
<b>G. Lake condition</b>	
	Good.

## 8. Rihar Tal (Tapta Kunda)

Code: P5-D4-008

Toposheet no: 2782 02A

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°54'28.21" N; Lon.: 82°20'7.67" E; Alt.: 228 masl.

Geographical position

Midlands.

Administrative feature

MWDR; Dang district; Satbariya VDC-8; Rihar.

Boundary

Core Area: Bagar Baba temple in east; Settlement of Rihar in west; East-West highway in south; Agricultural land in north.

Management responsibility

Basin Area: Rihar settlement in west; Rihar Khola in east; East-West Highway in south; Sal forest in conjecture of Dhawari Khola and Badri Khola in north (Satbariya VDC-8).

Wetlands type

Bagar Baba Religious Area Management Committee.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 35° C (May). Avg. Min.: 5° C (January).  
Avg. Rainfall: 1266.3-1779.5 mm/yr (DDC Profile).

Area

Core Area: 1 ha; Avg. Length: 150 m; Avg. Width: 50m; Avg. Depth: 2 m; Max-Min Surface Water Level: 3-1.5 m; Basin Area: 15 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: Rihar khola.

Water quality

Physicochemical parameter: Temp: 30° C, pH: 7; Transparency: 1 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

None.

Major aquatic plants

*Typha angustifolia* (LN: Pater; EN: Narrow leaved cattail; HT: Em).

Major plants in basin

*Shorea robusta* (LN: Sal; HT: Tr; LU: Tm); *Terminalia elliptica* (LN: Saaj; Ht: Tr; LU: Tm); *Syzygium cumini* (LN: Jamun; HT: Tr; LU: Fruit, Fd; Tm).

Fish

*Labeo rohita* (LN: Rohu; LU: Meat); *Cirrhinus mrigala* (LN: Naini; LU: Meat); *Ctenopharyngodon idella* (LN: Grass Carp; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad).

Bird

*Anser indicus* (LN: Haans; EN: Duck); *Casmerodius albus* (EN: Great Eret; LN: Bakulla); *Phalacrocorax carbo* (EN: Great Cormorant; LN: Jalewa).

Mammals

*Axis axis* (LN: Chital; EN: Spotted Deer); *Muntiacus muntjak* (LN: Ratuwa; EN: Barking Deer) *Oryctolagus sp* (LN: Kharayo; EN: Rabbit); *Canis sp* (LN: Syal; EN: Jackal); *Sus scrofa* (LN: Bandel; EN: Wildboar).

Invasive alien species	None
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Rihar; 50 m from lake; Main trail: Mahendra Highway (Asani-jalkundi section); Very close to lake.
Land use	Forest land (43%); Agriculture (30%); Shrubland (10%); Settlement (5%); Grass land (10%); Wetland (2%).
Demography	Population: 1475; Male: 774; Female: 701; HHs: 233; Ethnicity: Janajati (25%); Brahmin/Chhetri (65%); Dalit (10%); Major Religion: Hindu.
Jurisdiction/ownership	Bagar Baba Religious Area
Wetlands dependent community	None.
Livestock at basin	>1,000.
Traditional production system	Conventional paddy plantation; Low hill cultivation.
Traditional water use practices	None; Farmer managed <i>Kulo</i> ; Hot spring.
Cultural record	Bagar Baba temple.
Genesis/origin of lake	Natural.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fuelwood; Fodder/forage.
Cultural services	Religious site for Hindu; Hot spring and Holy bath; Local fair during <i>Maghe Sankranti</i> .
<b>E. Restoration/Management</b>	
Structural management	None.
None-structural management	Restriction for pollution.
Conservation plan	Plan off Bagar Baba Religious Area.
Monitoring plan	None.
<b>F. Tourism information</b>	>0.2 million annual visitors; Hotels and shops in Rihar; Good public transportation; Moderate tourism potential; Need improvement in infrastructure and tourism promotion activities.
<b>G. Lake condition</b>	Good.

## Annex-45: Inventory of lakes in Kapilvastu district

### 1. Ajigara Tal

Code: P5-D5-001

Toposheet no: 103-04

Date of inventory: April, 2015

#### A. General Feature

Conservation status

Geographical coordination

Geographical position

Administrative feature

Boundary

Management responsibility

Wetlands type

#### B. Ecological Feature

Climatic feature

Area

Water Volume

Water quality

Soil feature

Shocks/vulnerability

Major aquatic plants

Major plants in basin

Fish

Herpetofauna

Bird



None.

Lat.: 27°30'58.99"N; Lon.: 82°52'31.43"E; Alt.: 99 masl.

Tarai.

WDR; Kapilvastu district; Ajigara VDC-1, 2; Ajigara.

(Current: Krishnanagar Municipality; Ward no. 7)

Core Area: Cultivation land in all direction.

Basin Area: Cultivation area in west; Ajigara village and Ajigara-Shrinagar road in east; Karma-Dagarmarwa-Sishaniya road in south; Ajigara-Bahadurganj road in north. *Ajigaratal Samrakchan Samitee*.

Freshwater/Natural; Lacustrine; Permanent.

Avg. Max: Temp.: 43° C (June). Avg. Min.: 4.5° C (Dec). Avg. Rainfall: 1,850 mm/yr (DDC Profile).

Core Area: 6 ha; Avg. Length: 500 m; Avg. Width: 300 m; Avg. Depth: 1.2 m; Max-Min Surface Water Level: 2–1 m; Basin Area: 200 ha.

Volume: NA; Inlet: None; Outlet: Irrigation canal.

Physicochemical parameter: Temp: 27° C; pH: 7; Transparency: 0.5 m.

Grey color; Silty clay loam texture.

Encroachment; Luxuriant growth of reed; Fire 2 years ago.

Core Area: *Nelumbo nucifera* (LN: Kamal; EN: Lotus; HT: Fl); *Potamogeton nodosus* (LN: Panikhar; EN: Longleaved Pondweed); *Saccharum heteropogon* (LN: Kans; EN: Broom sedge; HT: Em).

*Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful); *Ficus religiosa* (LN: Pipal; HT: Tr; LU: Rel).

*Channa sp* (LN: Bhoti; LU: Meat); *Clarius batrachus* (LN: Mangur; LU: Meat); *Colisa fasciatus* (LN: Doctori; LU: Meat); *Puntius sp* (LN: Sidhari; LU: Meat).

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad); *Varanus flavescens* (LN: Sun Gohoro; EN: Golden Monitor Lizard)

*Anser indicus* (LN: Haans; EN:); *Casmerodius albus* (LN: Bakulla; EN: Great Egret); *Grus grus* (LN: Sarus; EN: Sarus Crane).

Mammals	<i>Boselaphus tragocamelus</i> (LN: Nilgai; EN: Blue Bull); <i>Canis sp</i> (LN: Syal; EN: Jackal); <i>Herpestes sp</i> (LN: Nyaurimusa; EN: Mongoose).
Invasive alien species	<i>Ipomoea carnea</i> (LN: Behaya; EN: Morning Glory); <i>Eichhornia crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Ajigara; 700 m from lake; Main Trail: Taulihawa-Krishnanagar road about 13 km from lake.
Land use	Agriculture (90%); Settlement (5%); Wetland (5%).
Demography	Population: About 1337; Male: 685; Female: 652; HHs: 182; Ethnicity: Brahmin (15%); Janajati (50%); Dalit (20%); Others including Muslim (10%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>200.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	Water well.
Cultural record	None.
Genesis/origin of lake	NA.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Irrigation; Water for livestock.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	Dam; UNDP/SGP project in 2011/12 for conservation of Wildrice habitat; NLCDC fund for structural improvement in 2009.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; Few local tea shops in Ajigara; Few good hotels in Krishnanagar (About 16 Km from lake); Local bus service (once a day) from Krishnanagar; No tourism potential.
<b>G. Lake condition</b>	
	Degrading.

## 2. Badka Tal

Code: P5-D5-002

Toposheet no: 097-15

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°37'47.37"N; Lon.: 82°46'10.06"E; Alt.: 125 masl

Geographical position

Terai.

Administrative feature

WDR; Kapilvastu district; Khurhuriya VDC-8; Padarauna.

(Current: Bijayanagar Rural Municipality; Ward no. 6)

Boundary

Core Area: Cultivated land in all direction.

Management responsibility

Basin Area: Woods, cropland Cropland in west; Forest patch, cropland and dike in east; Dike in south; Paddy field in north. VDC.

Wetlands type

Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>0</sup> C (June). Avg. Min.: 4.5<sup>0</sup> C (Dec). Avg. Rainfall: 1850 mm /yr (DDC).

Area

Core Area: 7 ha; Avg. Length: 370 m; Avg. Width: 180 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 3–1.2 m; Basin Area: 60 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: Irrigation canal.

Water quality

Physicochemical parameter: Temp: 27<sup>0</sup> C; pH: 7.5; Transparency: 0.2 m.

Soil feature

Grey color; Silty clay loam texture.

Shocks/vulnerability

encroachment; Invasion of weeds.

Major aquatic plants

*Potamogeton nodosus* (LN: Panikhar; EN: Longleaved Pondweed); *Ipomoea carnea* (LN: Behaya; EN: Morning Glory); *Eichhornia crassipes* (LN: Jalkumbhi; EN: Water Hyacinth).

Major plants in basin

*Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful); *Engelhardia spicata* (LN: Mauwa; HT: Tr; LU: Ful); Grasses.

Fish

*Labeo rohita* (LN: Rahu; LU: Meat); *Cirrhina mrigala* (LN: Naini; LU: Meat); *Cyprinus Carpio* (LN: Common Carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad); *Varanus flavescens* (LN: Sun Gohoro; EN: Golden Monitor Lizard).

Bird

*Anser indicus* (LN: Haans; EN: Duck); *Casmerodius albus* (EN: Great Egret; LN: Bakulla); *Grus grus* (LN: Sarus; EN: Sarus Crane).

Mammals	<i>Oryctolagus sp</i> (LN: Kharayo; EN: Rabbit); <i>Canis sp</i> (LN: Syal; EN: Jackal); <i>Herpestes sp</i> (LN: Nyaurimusa; EN: Mongoose)
Invasive alien species	<i>Ipomoea carnea</i> (LN: Behaya; EN: Morning Glory); <i>Eichhornia crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Baddaur; 800 m from lake; Main Trail: Chanuta-Gugauli-Baddaur road; About 14 km from lake to Chanuta.
Land use	Forest (30%); Agriculture (60%); Wetland (5%); Settlement (5%).
Demography	Population: About 778; Male: 392; Female: 386; HHs: 131; Ethnicity: Brahmin/Chhetri (40%); Janajati (30%); Dalit (10%); Others (10%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>100.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	Water well.
Cultural record	None.
Genesis/origin of lake	None.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fishing (VDC leased out for commercial fishery); Irrigation; Water for livestock.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	Embankment; Dike; Community canal.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; No public transportation; Local teashops in village; Few good hotels in Chanuta (about 13 km from lake); No tourism potential.
<b>G. Lake condition</b>	
	Good.



### 3. Baghaiya Tal

Code: P5-D5-003

Toposheet no: 097-16;103-04

Date of inventory: April, 2015



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°33'49.07"N; Lon.:82°57'10.59"E; Alt.: 104 masl.

Geographical position

Terai.

Administrative feature

WDR; Kapilvastudistrict; Maharajgunj VDC-2; Derwa

(Current: Maharajgunj Municipality; Ward no. 1)

Boundary

Core Area: Derewa village and Chamarsatha-Derwa-Sano Gaidahawa road in west; Cropland in east; Cropland and scrubland in south; Open woods in north.

Basin Area.: Chamarsatha-Ganavariya road west; Mahrajganja bazaar and Gaidahawa Sano road in Bahdurganja-Taulihawa road in south; nanmahara-Chamarsatha-Maharajganja trail in north.

Management responsibility

VDC and other Private.

Wetlands type

Freshwater/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>0</sup> C (June). Avg. Min.: 4.5<sup>0</sup> C (Dec.).  
Avg. Rainfall: 1,850 mm /yr (DDC Profile).

Area

Core Area: 4 ha; Avg. Length: 250 m; Avg. Width: 250 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 3–0.5 m;  
Basin Area: >200 ha.

Water Volume

Volume: NA; Inlet: *Shakuniya nala*; Outlet: Sukhaniya canal (Intermittent).

Water quality

Physicochemical parameter: Temp: 26<sup>0</sup> C, pH: 6.5; Transparency: 0. 2 cm.

Soil feature

Grey color; Clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

*Nelumbo nucifera* (LN: Kamal; EN: Lotus); *Potamogeton nodosus* (LN: Panikhar; EN: Longleaved Pondweed)

Major plants in basin

*Ficus religiosa* (LN: Peepal; HT: Tr); *Dalbergia sisoo* (LN: Sisau; HT: Tr; LU: Tm); *Mangifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful).

Fish

*Channa sp* (LN: Bhoti; LU: Meat); *Clarius batrachus* (LN: Mangur; LU: Meat); *Colisa fasciatus* (LN: Doctori; LU: Meat); *Puntius sp* (LN: Sidhari; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad); *Varanus flavescens* (LN: Sun Gohoro; EN: Golden Monitor Lizard).

Bird	<i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Casmerodius albus</i> (LN: Bakulla EN: Great Egret); <i>Grus grus</i> (LN: Sarus; EN: Sarus Crane).
Mammals	<i>Herpestes sp</i> (LN: Nyaurimusa; EN: Mongoos)
Invasive alien species	<i>Eichhornia crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Derwa; 100 m from lake; Main Trail: Taulihawa–Maharajgunj-Chamawsatha road; About 3 Km from lake to the main trail.
Land use	Agriculture (80%); Settlement (10%); Shrubland (5%); Wetland (5%).
Demography	Population: About 2519; Male: 1303; Female: 1216; HHs: 383; Ethnicity: Brahmin/Chhetri (20%); Janajati (50%); Dalit (20%); Others (10%); Major Religion: Hindu.
Jurisdiction/ownership	State/Private.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	Water well.
Cultural record	None.
Genesis/origin of lake	NA.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Irrigation; Fishing.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors. Regular public bus from Taulihawa to Krishnanagar (about 15 km from lake); No tourism potential.
<b>G. Lake condition</b>	
	Good.

#### 4. Bajaha Sagar (Tulsidihawa Tal)

Code: P5-D5-004

Toposheet no: 104 01

Date of inventory: April, 2015



##### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°27'16.60"N; Lon.: 83° 4'46.99"E; Alt.: 93 masl.

Geographical position

Terai, Trans-boundary lake of Nepal and India.

Administrative feature

WDR; Kapilvastu district; Pipara-2, Tulsipur.

(Current: Mayadevi Rural Municipality; Ward no. 4)

Boundary

Core Area: Cropland in Purnihawa (Pipara VDC) and Rajwapur (Titrikhi VDC) in west; Sano Sishaniya-Tulsipur trail, marshland and crop field in east; Area under India in south; Some area of Rajwapur, marshland and cultivated field of Sano Sishaniya village in north.

Basin Area: *Jamuwar nala* stretch from Ratnapur (Hanampur VDC))-Darkhasawa (Titirkhi VDC)-Ratanpur (Rangapur VDC) in west; Karmahawa-Basantapur-Sishaniya-Gauda Thulo road in east; India in south; Ratanpur (Harnampur VDC)-Karmahawa road in north.

Management responsibility

VDC.

Wetlands type

Freshwater/natural; Riverine; Perennial.

##### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>0</sup> C (June). Avg. Min.: 4.5<sup>0</sup> C (Dec). Avg. Rainfall: 1,850 mm /yr (DDC Profiel)

Area

Core Area: >320 ha in Nepal; Avg. Length: 1600 m; Avg. Width: 2,000 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 3-1.5 m; Basin Area: >500 ha.

Water Volume

Volume: NA; Inlet: *Jamuwar Nala*; Outlet: Irrigation canal in India

Water quality

Physicochemical parameter: Temp: 27<sup>0</sup> C, pH: 7.5; Transparency: 0.5 m;

Soil feature

Grey color; Sandy silt & clay texture.

Shocks/vulnerability

Encroachment; Eutrophication.

Major aquatic plants

*Nelumbo nucifera* (LN: Kamal; EN: Lotus; HT: Fl; LU: None); *Potamogeton nodosus* (LN: Panikhar; EN: Longleaved Pondweed; LU: None); *Saccharum heteropogon* (LN: Kans; EN: Broom Sedge; HT: Em; LU: Forage); *Eichhornea Crassipes* (LN: Jalkumbhi; EN: Water Hyacinth; LU: Food for pig); *Azolla sp* (LN: EN: ...; LU: Biofertilizer).

Major plants in basin

*Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful); *Ficus religiosa* (LN: Pipal; HT: Tr; LU: Rel); *Oryza spp.* (LN: Jangalidhan; LU: Staple food and cultural use)

Fish

*Channa sp* (LN: Bhoti; LU: Meat); *Clarius batrachus* (LN: Mangur; LU: Meat); *Colisa fasciatus* (LN: Doctori; LU: Meat); *Puntius sp* (LN: Sidhari; LU: Meat).

Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto; EN: Frog); <i>Ptyas mucosa</i> (LN: Cheparo; EN: Common Lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad); Snakes.
Bird	<i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Casmerodius albus</i> (EN: Great Egret; LN: Bakulla); <i>Grus grus</i> (LN: Sarus; EN: Sarus Crane).
Mammals	<i>Boselaphus tragocamelus</i> (LN: Nilgai; EN: Blue Bull); <i>Canis sp</i> (LN: Syal; EN: Jackal); <i>Herpestes sp</i> (LN: Nyaurimusa; EN: Mongoose).
Invasive alien species	None
Endemic plant/animal	None

### C. Socio-Economy at Basin

Nearby settlement	Tulasiour; 200 m from lake; Main Trail: Bhairahawa–Taulihawa road–Semerhawa–Ratanpur–Tulsipur; About 25 km from Tulsipur to Taulihawa.
Land use	Forest land (20%); Agriculture (60%); Settlement (7%); Wetland (13%).
Demography	Population: 592; Male: 325; Female: 267; HHs:70; Ethnicity: Brahmin/Chhetri (5%); Janajati (50%); Dalit (20%); Others (25%); Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>5000 in no.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	Water body swelled up due to dam in India.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Water for livestock and biodiversity; Fodder and forage; Conventional fishery; Wildrice intensely collected. Extensive use of water for agriculture in India from British.
Cultural service	None.

### E. Restoration/Management

Structural management	Earthen dam by DDC protecting village from submergence; India dammed during the British Empire for irrigation.
None-structural management	None.
Conservation plan	None
Monitoring plan	None.

### F. Tourism information

No visitors; No teashops; No public transportation and accommodation facilities; Transboundary lake may have tourism potential; Needs study on biodiversity and tourism.

### G. Lake condition

Degrading.

## 5. Barkalpur Tal

Code: P5-D5-005

Toposheet no: 097-16

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°40'19.38"N; Lon: 82°57'49.00"E; Alt: 122 masl.

Geographical position

Terai.

Administrative feature

WDR; Kapilvastu district; Barkalpur VDC-7, Bakulipur.

(Current: Buddhabhumi Municipality; Ward no. 9)

Boundary

Core Area: Open woods in west, east and north; Earthen dam and paddy field in south.

Basin Area: Eastern ridge of the eastern tributary of Bel river in west; Western ridge of *Belwa Gurduwa Nala* in east; Paddy fields of Bakulipur village in south; Barkalpur Danda (Alt: 150 m) in north.

Management responsibility

VDC.

Wetlands type

Freshwater/Man-made; Riverine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43° C (June). Avg. Min.: 4.5°C (Dec.).  
Avg. Rainfall: 1,850 mm /yr (DDC Profile).

Area

Core Area: 3.5 ha; Avg. Length: 400 m; Avg. Width: 180 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 2.5–1.5 m; Basin Area: >500 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp: 28° C, pH: 7.5; Transparency: 0.5 m.

Soil feature

Grey color; Clay loam texture.

Shocks/vulnerability

None

Major aquatic plants

*Nelumbo nucifera* (LN: Kamal; EN: Lotus); *Potamogeton nodosus*. (LN: Panikhar; EN: Longleaved Pondweed)

Major plants in basin

*Bombax ceiba* (LN: Simal, HT: Tr, LU: Fd, Ful); *Shorea robusta* (LN: Sal; HT: Tr; LU: Tm); *Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful); *Dalbergia sissoo* (LN: Sisam; HT: Tr; LU: Tm, Ful); *Ficus religiosa* (LN: Peepal; HT: Tr); *Acacia catechu* (LN: Khair; HT: Tr; LU: Tm).

Fish

*Labeo rohita* (LN: Rahu; LU: Meat); *Cirrhina mrigala* (LN: Naini; LU: Meat); *Cyprinus Carpio* (LN: Common Carp; LU: Meat); *Hypophthalmichthy smolitrix* (LN: Silver Carp; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN:

Bird	Bhyaguto; EN: Toad); <i>Varanus flavescens</i> (LN: Sun Gohoro; EN: Golden Monitor Lizard). <i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Casmerodius albus</i> (EN: Great Egret; LN: Bakulla); <i>Grusgrus</i> (LN: Sarus; EN: Sarus Crane); <i>Chalcophaps indica</i> (EN: Emerald Dove; LN: Dhukur); <i>Lophura lecumelanos</i> (LN: Kaalij; EN: Kalij Pheasant).
Mammals	<i>Canisss</i> (LN: Syal; EN: Jackal); <i>Axis axis</i> (LN: Mirga, EN: Spotted Dear); <i>Panthera pardus</i> (LN: Chitwa; EN: Leopard); <i>Macaca mullata</i> (LN: Bandar; EN: Monkey); <i>Boselaphus tragocamelus</i> (LN: Nilgai; EN: Blue Bull).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Bakulipur; 500 m from lake; Main Trail: Bakulipur-Rangapur road linked to Mahendra Highway (Gorusinghe-Chanauta section); About 2 km from lake to main trail (Bakulipur to highway).
Land use	Forest (60%); Grassland (30%); Settlement (5%); Wetland (5%).
Demography	Population: 844; Male: 398; Female: 446; HHs: 138; Ethnicity: Brahmin/Chhetri (40%); Janajati (30%); Dalit (20%); Others (10%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>200 in no.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	Embankment and dam in south formed water reservoir 15 years ago.

### D. Ecosystem Goods/Services

Provisional services	Commercial fish farming.
Cultural services	Scenic; Recreational (boating).

### E. Restoration/Management

Structural management	Embankment and dam constructed.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No visitors; No public transportation; A few small hotels in Imilia (about 4 km from lake in Mahendra Highway to Gorusingh); Emerging structure strategic for high tourism potential; Needs infrastructure development and tourism promotional activities.

### G. Lake condition

Good.

## 6. Gobari Pokhari

Code: P5-D5-006

Toposheet no: 098-13

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°34'54.70"N; Lon.: 83° 4'26.42"E; Alt.: 111 masl.

Geographical position

Terai.

Administrative feature

WDR; Kapilvastu district; Kapilvastu Municipality-18; *Gobari*.

(Current: Kapilvastu Municipality; Ward no. 6)

Boundary

Core Area: Gobari and trail in west; Cropland in east and north; Shree Madhyamik Tilaurakot Higher Secondary School in south.

Basin Area: Irrigation canal (Jagadishpur) in west; Semari village and trail from Semari linking Jahadi-Gaobari-Sadawa road in east; Local road along distribution canal branch of Sadawa in south; Irrigation main canal up to road intersection of Semari-Siwapura in north.

Management responsibility

*Shree Madhyamik Tilaurakot Madhyamik School.*

Wetlands type

Freshwater/Man-made; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>o</sup> C (June). Avg. Min.: 4.5<sup>o</sup> C (Dec.).  
Avg. Rainfall: 1,850 mm /yr (District Profile).

Area

Core area: 2 ha; Avg. Length: 200 m; Avg. Width: 100 m; Avg. Depth: 1.3 m; Max-Min Surface Water Level: 2–1 m; Basin Area: 30 ha.

Water Volume

Volume: NA; Inlet: Jagadishpur Irrigation Canal (Intermittent); Outlet: Community canal.

Water quality

Physicochemical parameter: Temp: 28<sup>o</sup> C; pH: 7.5; Transparency: 0.3 m.

Soil feature

Grey color; Clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

Core Area: *Nelumbo nucifera* (LN: Kamal; EN: Lotus; HT: Ft); *Potamogeton nodosus* (LN: Panikhar; EN: Longleaved Pondweed; HT: Em).

Major plants in basin

*Ficu sreligiosa* (LN: Peepal; HT: Tr; LU: Rel; *Dalbergia sisoo* (LN: Sisau; HT: Tr; LU: Tm); *Mangifera indica* (LN: Aanp; HT: Tr; LU: Fruit; Tm).

Fish

*Labeo rohita* (LN: Rahu; LU: Meat); *Cirrhina mrigala* (LN: Naini; LU: Meat); *Cyprinus Carpio* (LN: Common Carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver Carp; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Buf oandersoni* (LN:

	Bhyaguto; EN: Toad); <i>Varanus flavescens</i> (LN: Sun Gohoro; EN: Golden Monitor Lizard)
Bird	<i>Anser indicus</i> (LN: Haans); <i>Casmerodius albus</i> (EN: Great Egret; LN: Bakulla); <i>Grus grus</i> (LN: Sarus; EN: Sarus Crane).
Mammals	<i>Herpestes sp</i> (LN: Nyaurimusa; EN: Mongoose)
Invasive alien species	<i>Eichhornia crassipes</i> (LN: Jalkumbhi; EN: Water HHyacinth).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	<i>Gobari</i> ; 100 m from lake; Main Trail: Taulihawa-4 Number road; 100 m from lake to the main trail.
Land use	Agriculture (85%); Settlement (5%); Forest (5%); Wetland (5%).
Demography	Population: 8310; Male: 4131; Female: 4179; HHs: 1316; Ethnicity: Brahmin/Chhetri (20%); Janajati (50%); Dalit (10%); Others (20%); Major Religion: Hindu.
Jurisdiction/ownership	<i>Shree Madhyamik Tilaurakot Madhyamik School</i> .
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	Formed from excavation of mud and soil during construction of school building 28 years ago.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Commercial fishery; Water livestock.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; Public transportation from Taulihawa available; Teashops in Gobari; No hotel accommodation facilities in site but in Taulihawa; No tourism potential.
<b>G. Lake condition</b>	
	Good.



## 7. Hariharpur Tal

Code: P5-D5-007

Toposheet no: 097-16

Date of inventory: April, 2015



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.:</u> 27°38'41.20"N; <u>Lon.:</u> 82°58'13.27"E; <u>Alt.:</u> 110 masl.
Geographical position	Tarai.
Administrative feature	WDR; Kapilvastu district; Hariharpur VDC-1; <i>Hariharpur</i> . (Current: Buddhabhumi Municipality; Ward no. 8)
Boundary	<u>Core Area:</u> Gravel road in west and south Hariharpur village in east; Dense Sal forest in north. <u>Basin Area:</u> Road from Imilia (Gorusingh-Chaunata section highway) to Hariharpur VDC in west; Road from to Hariharpur village in east; Harihaarpur satellite village-Hariharpur village trail in south; Trail from Imilia to Harihar village in north.
Management responsibility	VDC
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.:</u> 43 <sup>o</sup> C (June). <u>Avg. Min.:</u> 4.5 <sup>o</sup> C (Dec.). <u>Avg. Rainfall:</u> 1,850 mm /yr (DDC Profile).
Area	<u>Core Area:</u> 20 ha; Avg. Length: 750 m; Avg. Width: 250 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 2.2–0.3 m; <u>Basin Area:</u> >3000 ha.
Water Volume	<u>Volume:</u> NA; <u>Inlet:</u> None; <u>Outlet:</u> Irrigation canal.
Water quality	<u>Physicochemical parameter:</u> Temp: 27 <sup>o</sup> C, pH: 6.5; Transparency: 0.7 m.
Soil feature	Grey color; Silty clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area:</u> None.
Major plants in basin	<i>Acacia catechu</i> (LN: Khair; HT: Tr; LU: Tm); <i>Magnifera indica</i> (LN: Aanp; HT: Tr; LU: Fruit, Ful); <i>Dalbergia sissoo</i> (LN: Sisam; HT: Tr; LU: Tm); <i>Shorea robusta</i> (LN: Saal; HT: Tr; LU: Tm).
Fish	<i>Cyprinus carpio</i> (LN: Common Carp, LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver Carp, LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass Carp; LU: Meat); <i>Cirrhinus mrigala</i> (LN: Naini; LU: Meat).
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto; EN: Frog); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common Lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad); <i>Varanus flavescens</i> (LN: Sun Gohoro; EN: Golden Monitor Lizard).

Bird	<i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Casmerodius albus</i> (EN: Great Egret; LN: Bakulla); <i>Grus grus</i> (LN: Sarus; EN: Sarus Crane).
Mammals	<i>Canis sp</i> (LN: Syal; EN: Jackal); <i>Herpestes sp</i> (LN: Nyaurimusa; EN: Mongoose)
Invasive alien species	None.
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	<i>Hariharpur</i> ; <100 m from lake; Main Trail: Mahendra Highway-Hariharpur VDC road-Hariharpur; About 5 km from lake to highway.
Land use	Forest (60%); Grassland (5%); Agriculture (30%); Wetland (2%); Settlement (3%).
Demography	Population: About 1319; Male: 615; Female: 704; HHs: 213; Ethnicity: Brahmin/Chhetri (50%); Janajati (20%); Dalit (20%); Others (10%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>1000.
Traditional production system	Traditional crop cultivation.
Traditional water use practices	Farmer managed canal.
Cultural record	None.
Genesis/origin of lake	NA.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Irrigation; Water for livestock; Commercial fishery; Fuel and Fodder; NTFPs.
Cultural services	None,
<b>E. Restoration/Management</b>	
Structural management	None.
None-structural management	None.
Conservation plan	None; Lake leased for fishery.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; Few good hotels in Imilia (about 4 km from lake); No public transport; No tourism potential.
<b>G. Lake condition</b>	
	Good.

## 8. Jagdishpur Reservoir (Sagar Tal)

Code: P5-D5-008

Toposheet no: 098-13

Date of inventory: April,  
2015



### A. General Feature

Conservation status

Ramsar site.

Geographical coordination

Lat.: 27°37'14.98" N; Lon.: 83°06'02.96" E; Alt.: 110 masl.

Geographical position

Terai

Administrative feature

WDR; Kapilvastudistrict; Niglihawa VDC-1; Jagdishpur.

(Current: Kapilvastu Municipality; Ward no. 9)

Boundary

Core Area: Jagdishpur bazaar and embankment in west; Cropfield and embankment in east; Rangepost (Jagdishpur), Cropfield and embankment in south; Marshland and cropfield in north.

Basin Area: Trail from Premchandrapur-Jagdishpur bazaar in west; Trail from Bibuli-Birta-Niglihawa in east; Road from Niglihawa intercepting to Tilaurakot-Jagdishpur road above Shrinagar in south; Road from Premchandrapur-harinampur-Bibuli in north.

Management responsibility

*Jagdishpur Jalasaya Byabasthapan Bahusarokar Manch.*

Wetlands type

Freshwater/Man-made; Water storage tank.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>0</sup> C (June). Avg. Min.: 4.5<sup>0</sup> C (Dec). Avg. Rainfall: 1,850 mm/yr (DDC Profile).

Area

Core Area: 157 ha; Avg. Length: 1.35 km; Avg. Width: 1.28 km; Avg. Depth: 3 m; Max-Min Surface Water Level: 7–2 m; Basin Area: >200 ha.

Water Volume

Volume: NA; Inlet: Inlet canal from Banganga river (Laxmanghat dam); Outlet: Irrigation canal in south.

Water quality

Physicochemical parameter: Temp: 300 C, pH: 7.5; Transparency: 0.8 m.

Soil feature

Grey color; Silty clay loam texture (sandy clay loam in south).

Shocks/vulnerability

None.

Major aquatic plants

Nelumbo nucifera (LN: Kamal; EN: Lotus; HT: Ft; LU: Rel); Hygrorrhiza aristata (LN: Jungalidhan; EN: Wildrice; HT: Em; LU: Rel); Azolla imbricate (LN: Paniuneu; EN: Water velvet; HT: Ft); Lemna spp (LN: Leu; EN: Duck weed; HT: Ft); Naja minor (LN: EN: Water Nymph; HT: LU:); Hydrilla verticillata (LN: Panijhyau; EN: Hydrilla; HT: Sm); Ceratophyllum demersum (LN: Patai; EN: Hornwort; HT: Ft); Typha angustifolia (LN: Khar; EN: Cattail; HT: Em; LU: Fruit).

Major plants in basin

*Acacia catechu* (LN: Khair; HT: Tr; LU: Tm, Ful); *Dalbergia sisoo* (LN: Sisau; HT: Tr; LU: Tm, Ful); *Aegle marmelos* (LN: Bel; HT: Tr; LU: Fruit); *Syzygium cumini* (LN: Jamun; HT: Tr; LU: Fruit); *Ficus religiosa* (LN: Pipal; HT: Tr).

Fish

39 species reported (12 families; 7 orders including lowland Terai endemics) Some are: *Notopterus notopterus* (LN: Pallas); *Oxygaster bacalia* (LN: Chalhawa); *Acanthocobitis*

	<i>botia</i> (LN: Golo Nau); <i>Amblypharynx godonmola</i> (LN: Dhawai); <i>Aspidopariamorar</i> (LN: Mansihar); <i>Badis badis</i> (LN: Goidi); <i>Barilius barila</i> (LN: Chilwa); <i>B. barna</i> (LN: Piruwa); <i>B. bendelisis</i> : Tilwa); <i>Clarius batrachus</i> (LN: Mangur); <i>Garagotyla gotyla</i> (LN: Pattharchatti); <i>Colisa fasciatus</i> (LN: Khesti); <i>Danio devario</i> (LN: Suiya); <i>Esomus denricus</i> (LN: Dudahi); <i>Puntius sp</i> (LN: Sidhari).)
Herpetofauna	30 species of reptiles and 8 species amphibians reported including <i>Varanus bengalensis</i> (EN: Bengal Monitor Lizard); <i>V. flavescens</i> (LN: Sun Gohoro; EN: Golden Monitor Lizard); <i>Python molurus bivittatus</i> (EN: Burmese Rock Python); <i>Sphaerotheca maskeyi</i> (EN: Maskey's Burrowing Frog); <i>Microhyla ornata</i> (LN: Sagurothutune Bhyaguta; EN: Ornate Rice Frog).
Bird	Nearly 150 spp reported including <i>Hydrophasianus chirrugus</i> (LN: Jalapsara; EN: Pheasantailed Jacana); <i>Charadrius dubius</i> (LN: Laghurajputrika; EN: Littleringed Plover); <i>Vanellus indicus</i> (LN: Huttityau; EN: Red-wattled Lapwing); <i>Anhinga melanogaster</i> (LN: Suirothude; EN: Darter; IUCN: Near Threatened); <i>Phalacrocorax carbo</i> (LN: Jalewa; EN: Great Cormorant); <i>Phalacrocorax niger</i> (LN: Sano Jalewa; EN: Cormorant); <i>Sterna acuticauda</i> (LN: Phyalphyale; EN: Blackbellied Tern; IUCN: Endangered); <i>Ardeola grayii</i> (LN: Askote Bakulla; EN: Indian Pond Heron); <i>Aythya roca</i> (EN: Ferruginous Duck; IUCN: Near Threatened).
Mammals	<i>Lutrogaleper spicillata</i> (LN: Lutra; EN: Smoothcoated otter); <i>Felis chaus</i> (LN: Banbiralo; EN: Jungle Cat); <i>Canis aureus</i> (LN: Syal; EN: Golden Jackal); <i>Vulpes bengalensis</i> (LN: Fyauro; EN: Indian Fox); <i>Herpestes sp.</i> (LN: Nyaurimusa; EN: Mongoose).
Invasive alien species	<i>Eichhornia crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth); <i>Ipomoea carnea</i> (LN: Behaya; EN: Morning Glory).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Jagadishpur; 50 m from lake; Main Trail: Taulihawa 4 No. road; 10 km from lake to Taulihawa.
Land use	Forest (35%); Grassland (25%); Agriculture (30%); Wetland (5%); Settlement (5%).
Demography	Population: 11,235; Male: 5,435; Female: 5,800; HHs: 1,941; Ethnicity: Brahmin/Chhetri (20%); Janajati (30%); Dalit (20%); Others (30%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	1000.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	Impounded in 1972 from diversion of the Banganga River for water storage in irrigation.

#### **D. Ecosystem Goods/Services**

Provisional services	Downstream irrigation (6350 ha); Commercial fishery; Fodder/forage.
Cultural services	Aesthetic and scenic; Recreational and educational services.

#### **E. Restoration/Management**

Structural management

Earthen dam encircling lake; Plantation; Water regulated by DoI; NLCDC funding for culture and tourism (2009); UNDP/SGP for participatory conservation (2010); BCN engagement under Darwin Initiative.

None-structural management

Restriction for fishing and pollution.

Conservation plan

DFO prepared plan available.

Monitoring plan

Available

**F. Tourism information**

>10,000 annual visitors; Jeep service from Taulihawa twice a day; Local teashops in Jagdishpur; A few hotels in Taulihawa; Tourism potential high; Needs tourism infrastructure development and promotional activities.

**G. Lake condition**

Good.

## 9. Jam Kudwa

Code: P5-D5-009

Toposheet no: 097-15

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°38'55.79"N; Lon.: 82°46'33.83"E; Alt.: 135 masl

Geographical position

Terai.

Administrative feature

WDR; Kapilvastu district; Gugauli VDC-9, Imlihawa.

(Current: Bijayanagar Rural Municipality; Ward no. 2)

Boundary

Core Area: Forest in west; Paddy field in east; south and north.

Basin Area: *Chirai Khola* in west; Paddy field in east; Forest is south; Cropfield and *Chirai Khola* in north.

Management responsibility

VDC.

Wetlands type

Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>0</sup> C (June). Avg. Min.: 4.5<sup>0</sup> C (Dec). Avg. Rainfall: 1,850 mm /yr (DDC Profile).

Area

Core Area: 2 ha; Avg. Length: 250 m; Avg. Width: 70 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 2-0.8 m; Basin Area: 25 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp: 27<sup>0</sup> C, pH: 7.5; Transparency: 0.3 m.

Soil feature

Grey color; Silty clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

Core Area: None.

Major plants in basin

*Acacia catechu* (LN: Khair; HT: Tr); *Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful); *Shorea robusta* (LN: Sal; HT: Tr; LU: Tm); *Dalbergia sisoo* (LN: Sisau; HT: Tr; LU: Tm); *Syzygium cumini* (LN: Jamun; HT: Tr; LU: Fruit, Tm).

Fish

*Labeo rohita* (LN: Rahu; LU: Meat); *Cirrhina mrigala* (LN: Naini; LU: Meat); *Cyprinus Carpio* (LN: Common Carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver Carp; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad); *Varanus flavescens* (LN: Sun Gohoro; EN: Golden Monitor Lizard).

Bird

*Anser indicus* (LN: Haans; EN: Duck); *Casmerodius albus* (EN: Great Egret; LN: Bakulla); *Grus grus* (LN: Sarus; EN: Sarus Crane).

Mammals	<i>Oryctolagus sp</i> (LN: Kharayo; EN: Rabbit); <i>Canis sp</i> (LN: Syal; EN: Jackal); <i>Herpestes sp</i> (LN: Nyaurimusa; EN: Mongoose)
Invasive alien species	<i>Ipomoea carnea</i> (LN: Behaya; EN: Morning Glory).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Imlihawa; Approx. 800 m from lake; Main Trail: Chanauta-Shakpur-Gugaili road; About 10 km from lake to Mahendra Highway plus Chanuata 7 km away.
Land use	Forest (30%); Agriculture (60%); Wetland (5%); Settlement (5%).
Demography	Population: 863; Male: 442; Female: 421; HHS: 111; Ethnicity: Brahmin/Chhetri (30%); Dalit (20%); Janajati (40%); Others (10%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>200.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	Farmer managed small canal.
Cultural record	None.
Genesis/origin of lake	NA.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Irrigation; Water for livestock and wild animal; Fodder & Fuel; NTFPs.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	Dam.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; No hotels; No public transport; No tourism potential.
<b>G. Lake condition</b>	
	Good.

## 10. Kadja Tal

Code: P5-D5-010

Toposheet no: 097-15

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°37'25.99"N; Lon.: 82°45'57.95"E; Alt.: 122 masl.

Geographical position

Tarai.

Administrative feature

WDR; Kapilvastu district; Khurhuriya VDC-8; Baddaur  
(Current: Bijayanagar Rural Municipality; Ward no. 2)

Boundary

Core Area: Cultivation land in all direction.

Basin Area: Khajahanidiwa to Puraina road in west; Earthen dike in east; Trail from Khajahanidihawa-Khajani intercepting trail from *Baddaur* to *Pipari*.

Management responsibility

VDC.

Wetlands type

Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>0</sup> C (June). Avg. Min.: 4.5<sup>0</sup> C (Dec.).  
Avg. Rainfall: 1,850 mm /yr (DDC Profile).

Area

Core Area: 3 ha; Avg. Length: 400 m; Avg. Width: 50 m;  
Avg. Depth: 1 m; Max-Min Surface Water Level: 2.5–1 m;  
Basin Area: 50 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp: 26 °C, pH: 7.5;  
Transparency: 0.2 m.

Soil feature

Grey color; Silty clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

*Potamogeton nodosus* (LN: Panikhar; EN: Longleaved Pondweed).

Major plants in basin

*Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful);  
*Engelhardi aspicata* (LN: Mauwa; HT: Tr; LU: Ful)

Fish

*Labeo rohita* (LN: Rahu; LU: Meat); *Cirrhina mrigala* (LN: Naini; LU: Meat); *Cyprinus Carpio* (LN: Common Carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo Andersoni* (LN: Bhyaguto; EN: Toad); *Varanus flavescens* (LN: Sun Gohoro; EN: Golden Monitor Lizard).

Bird

*Anser indicus* (LN: Haans; EN:); *Casmerodius albus* LN: Bakulla; EN: Great Egret); *Grus grus* (LN: Sarus; EN: Sarus Crane).

Mammals

*Oryctolagus sp* (LN: Kharayo; EN: Rabbit); *Canis sp* (LN: Syal; EN: Jackal); *Herpestes sp* (LN: Nyaurimusa; EN: Mongoose).



Invasive alien species	<i>Ipomoea carnea</i> (LN: Behaya; EN: Morning Glory); <i>Eichhornia crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Khajanidihawa; 500 m from lake; Main Trail: Chanuta-Gugauli-Baddaur road; 1 km from lake to the main trail.
Land use	Forest (10%); Agriculture (80%); Wetland (5%); Settlement (5%).
Demography	Population: 778; Male: 392; Female: 386; HHs: 131; Ethnicity: Janajati (10%); Brahmin/Chhetri (52%); Dalit (12%); Others (26%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>100 in no.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	NA.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fishery; Irrigation; Water for livestock.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	Embankments.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; No public transportation; Few hotels in Chanuta (about 14 km from lake); No tourism potential.
<b>G. Lake condition</b>	
	Good.

## 11. Laharaula Tal

Code: P5-D5-011

Toposheet no: 097-16

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°34'15.19"N; Lon: 82°52'9.68"E; Alt: 111 masl.

Geographical position

Terai.

Administrative feature

WDR; Kapilvastu district; Bahadurganj VDC-7; Laharaula.

(Current: Shivaraj Municipality; Ward no. 7)

Boundary

Core Area: Cropfield in west, east and north; Laharaula village in south.

Basin Area: Jawabari-Bahadurganja road in west; Laharaula- Jawabhari road in east; Laharaula village in south; Jawbari and Beuwa village and trail in north.

Management responsibility

VDC.

Wetlands type

Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>0</sup> C (June). Avg. Min.: 4.5<sup>0</sup> C (Dec.).  
Avg. Rainfall: 1,850 mm /yr (DDC Profile).

Area

Core Area: 5 ha; Avg. Length: 200 m; Avg. Width: 212 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 3-1 m; Basin Area: about 440 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: Irrigation canal.

Water quality

Physicochemical parameter: Temp: 27<sup>0</sup> C, pH: 7.5; Transparency: 0.2 m.

Soil feature

Grey color; Clay loam texture.

Shocks/vulnerability

Encroachment.

Major aquatic plants

Core Area None.

Major plants in basin

*Ficus religiosa* (LN: Peepal; HT: Tr); *Dalbergia sisoo* (LN: Sisau; HT: Tr; LU: Tm); *Mangifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful).

Fish

None.

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Ptyas mucosa* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad)

Bird

*Anser indicus* (LN: Haans; EN: Duck); *Casmerodius albus* (EN: Great Egret; LN: Bakulla).

Mammals

*Herpestes sp* (LN: Nyaurimusa; EN: Mongoose)

Invasive alien species

None.

Endemic plant/animal

None.

### C. Socio-Economy at Basin

Nearby settlement	Loharaula; very close to lake; Main Trail: Chanauta–Bahadurganj road; About 1 km from lake to the main trail.
Land use	Forest land (10%); Agriculture (60%); Settlement (25%); Wetland (5%).
Demography	Population: 2186; Male: 1122; Female: 1064; HHs: 267; Ethnicity: Brahmin/Chhetri (10%); Janajati (40 %); Dalit (20%); Others (30%); Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>800.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	NA.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	None.
Cultural service	None.
<b>E. Restoration/Management</b>	
Structural management	None.
None-structural management	None.
Conservation plan	None
Monitoring plan	None
<b>F. Tourism information</b>	
No visitors; No tourism potential.	
<b>G. Lake condition</b>	
Degrading.	

## 12. Mahali Sagar (Mahasaiya)

Code: P5-D5-012

Toposheet no: 104-01

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°27'10.34"N; Lon: 83°01'30"N; Alt: 91 masl.

Geographical position

Terai.

Administrative feature

WDR; Kapilvastu district; Rangapur VDC-1, 2 and 3; Rangapur.

(Current: Yasodhara Rural Municipality; Ward no. 5)

Boundary

Core Area: Cropland (Bhagwanpur) to Loharauli trail in west; Cropfield) Rangapur) in east; India border in south; Srubland, *Musal Nala* and cropfield (Loharauli) in north.

Basin Area: *Musal Nala* bridge-Bedauli-Maryadpur section of Taulihawa-Maryadapur road in west; Rangapur-Hatihawa-Pokharbhirawa road in east; India border in south Basantapur VDC boarder (Pokharbhirawa) to southern boarder of Basantapur VDC following *Musal Nala* at bridge site in Taulihawa-Maryadapur road in north.

Management responsibility

VDC.

Wetlands type

Freshwater/natural; Riverine; Perennial.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>0</sup> C (June). Avg. Min.: 4.5<sup>0</sup> C (Dec). Avg. Rainfall: 1,850 mm /yr (DDC Profile).

Area

Core Area: 60 ha (42 ha in Nepal); Avg. Length: 940 m; Avg. Width: 990 m; Avg. Depth: 0.8 m; Max-Min Surface Water Level: 0.6-4 m; Basin Area: 1600 ha.

Water Volume

Volume: NA; Inlet: Musal Nala; Outlet: Irrigation canal in India.

Water quality

Physicochemical parameter: Temp: 27<sup>0</sup> C, pH: 7; Transparency: 0.3 m.

Soil feature

Grey color; Silty clay loam texture.

Shocks/vulnerability

Encroachment.

Major aquatic plants

*Nelumbo nucifera* (LN: Kamal; EN: Lotus; HT: Ft); *Potamogeton nodosus* (LN: Panikhar; EN: Longleaved Pondweed; HT: Ft); *Saccharum heteropogon* (LN: Kans; EN: Broom Sedge; HT: Em).

Major plants in basin

*Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful); *Ficus religiosa* (LN: Pipal; HT: Tr; LU: Rel); Wildrice.

Fish

*Channa sp* (LN: Bhoti; LU: Meat); *Clarius batrachus* (LN: Mangur; LU: Meat); *Colisa fasciatus* (LN: Doctori; LU: Meat); *Puntius sp* (LN: Sidhari; LU: Meat).

Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto; EN: Frog); <i>Ptyas mucosa</i> (LN: Cheparo; EN: Common Lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad).
Bird	<i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Casmerodius albus</i> (EN: Great Egret; LN: Bakulla); <i>Grus grus</i> (LN: Sarus; EN: Sarus Crane).
Mammals	<i>Boselaphus tragocamelus</i> (LN: Nilgai; EN: Bluebull); <i>Canis sp</i> (LN: Syal; EN: Jackal); <i>Herpestes sp</i> (LN: Nyaurimusa; EN: Mongoose).
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Rangapur; 500 m from lake; Main Trail: Bhairahawa-Taulihawa-Semarahawa-Rangapur road; About 15 Km from lake to Taulihawa.
Land use	Forest land (20%); Agriculture (60%); Settlement (7%); Wetland (13%).
Demography	Population: 1665; Male: 802; Female: 863; HHs: 250; Ethnicity: Brahmin/Chhetri (15%); Janajati (25%); Dalit (10%); Others (50%); Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>900.
Traditional production system	Traditional paddy plantation.
Traditional water use practices	Water well.
Cultural record	None.
Genesis/origin of lake	Dam by India in south formed reservoir.

### **D. Ecosystem Goods/Services**

Provisional services	Irrigation in India; Water for livestock.
Cultural service	NA.

### **E. Restoration/Management**

Structural management	Irrigation; Conventional fishery; Forage & fodder; Water for livestock and biodiversity; Wildrice for cultural use.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

No visitors; Transboundary lake close to Bajah Tal in east about 6 km may have tourism potential; Needs explorative study.

### **G. Lake condition**

Degrading.

### 13. Murdahawa Tal

Code: P5-D5-013

Toposheet no: 097-15

Date of inventory: April, 2015



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°38'22.62"N; Lon: 82°46'27.60"E; Alt: 132 masl.

Geographical position

Terai.

Administrative feature

WDR; Kapilvastu district; Gugauli VDC- 8; *Madhwanagar*.

(Current: Bijayanagar Rural Municipality; Ward no. 2)

Boundary

Core Area: Grassland in west; Foot trail from Madhwanagar to north in east; Forest in south; Grassland and cropfield in north.

Basin Area: Open woods in west; foot trail and cropland in east; Gugula-Purana tal road in south; Trail from *Pardauna* to *Chira Khola* (west side) in north.

Management responsibility

VDC.

Wetlands type

Freshwater/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>0</sup> C (June). Avg. Min.: 4.5<sup>0</sup> C (Dec). Avg. Rainfall: 1,850 mm /yr (DDC Profile).

Area

Core Area: 3 ha; Avg. Length: 250 m; Avg. Width: 100 m; Avg. Depth: 1.2 m; Max-Min Surface Water Level: 2.5- 1 m; Basin Area: >30 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp: 28<sup>0</sup> C, pH: 7; Transparency: 0.2 m.

Soil feature

Grey color; Silty clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

None.

Major plants in basin

*Acacia catechu* (LN: Khair; HT: Tr; LU: Tm); *Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful); *Shorea robusta* (LN: Sal; HT: Tr; LU: Tm); *Dalbergia sisoo* (LN: Sisau; HT: Tr; LU: Tm); *Syzygium cumini* (LN: Jamun; HT: Tr; LU: Fruit, Tm).

Fish

*Labeo rohita* (LN: Rahu; LU: Meat); *Cirrhina mrigala* (LN: Naini; LU: Meat); *Cyprinus Carpio* (LN: Common Carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad); *Varanus flavescens* (LN: Sun Gohoro; EN: Golden Monitor Lizard).

Bird	<i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Casmerodius albus</i> (EN: Great Egret; LN: Bakulla); <i>Grus grus</i> (LN: Sarus; EN: Sarus Crane).
Mammals	<i>Oryctolagus sp</i> (LN: Kharayo; EN: Rabbit); <i>Canis sp</i> (LN: Syal; EN: Jackal); <i>Herpestes sp</i> (LN: Nyaurimusa; EN: Mongoose).
Invasive alien species	<i>Ipomoea carnea</i> (LN: Behaya; EN: Morning Glory).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Madhiwanagar; About 100 m from lake; Main Trail: Chaunata-Shankarpur-Gugauli; About 13 km from lake to the main trail in Chanauta.
Land use	Forest (45%); Agriculture (25%); Barren land (20%); Wetland (5%); Settlement (5%).
Demography	Population: 487; Male: 245; Female: 242; HHs: 82; Ethnicity: Brahmin/Chhetri (48%); Janajati (14%); Dalit (11%); Others (27%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>200.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	NA.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Comercial fishing (leased from VDC); Irrigation; Water for livestock; Fodder and forage.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; No public transportation; Teashops in Gugauli village; A few good hotels in Chanauta (about 10 km from lake); No tourism potential.
<b>G. Lake condition</b>	
	Good.

## 14. Naukhane Tal (Dhankauli)

Code: P5-D5-014

Toposheet no: 104-01

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°33'24.74"N; Lon.: 83° 0'14.25"E; Alt.: 105 masl.

Geographical position

Terai.

Administrative feature

WDR; Kapilvastu district; Dhankauli VDC-4; Bisamharpur.

(Current: Kapilvastu Municipality; Ward no. 10)

Boundary

Core Area: Bijgaudi-Bisambharpur trail in west; Scrubland and paddy field east; Bisambharpur village in south; Cropland (Bjgaudi) in north.

Basin Area: *Bijgaudi (Dhankauli) Nala* in west; Banganga river (Niglihawa branch) in east and south; Paddy field in north and east; Cropfield and Bijgaudi village (delineating 4<sup>th</sup> class road) in north.

Management responsibility

VDC.

Wetlands type

Freshwater/natural; Riverine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>o</sup> C (June). Avg. Min.: 4.5<sup>o</sup> C (Dec). Avg. Rainfall: 1,850 mm /yr (DDC Profile).

Area

Core Area: 4 ha; Avg. Length: 300 m; Avg. Width: 40 m; Avg. Depth: 1.2m; Max-Min Surface Water Level: 2.5-1 m;

Basin Area: >110 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp: 27<sup>o</sup> C, pH: 7.5; Transparency:).2 m.

Soil feature

Grey color; Silty clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

Core Area: *Nelumbo nucifera* (LN: Kamal; EN: Lotus; HT: Ft; LU: Orn, Rel); *Potamogeton nodosus* (LN: Panikhar; EN: Longleaved Pondweed; HT: Ft; LU: None).

Major plants in basin

*Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful); *Dalbergia sisoo* (LN: Sisau; HT: Tr; LU: Ful); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Ful; Tm).

Fish

*Labeo rohita* (LN: Rahu; LU: Meat); *Cirrhina mrigala* (LN: Naini; LU: Meat); *Cyprinus Carpio* (LN: Common Carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad).

Bird

*Anser indicus* (LN: Haans; EN: Duck); *Casmerodius albus* (EN: Great Egret; LN: Bakulla); *Grus grus* (LN: Sarus; EN: Sarus Crane).



Bird	<i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Casmerodius albus</i> (EN: Great Egret; LN: Bakulla); <i>Grus grus</i> (LN: Sarus; EN: Sarus Crane).
Mammals	<i>Oryctolagus sp</i> (LN: Kharayo; EN: Rabbit); <i>Canis sp</i> (LN: Syal; EN: Jackal); <i>Herpestes sp</i> (LN: Nyaurimusa; EN: Mongoose).
Invasive alien species	<i>Ipomoea carnea</i> (LN: Behaya; EN: Morning Glory).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Madhiwanagar; About 100 m from lake; Main Trail: Chaunata-Shankarpur-Gugauli; About 13 km from lake to the main trail in Chanauta.
Land use	Forest (45%); Agriculture (25%); Barren land (20%); Wetland (5%); Settlement (5%).
Demography	Population: 487; Male: 245; Female: 242; HHs: 82; Ethnicity: Brahmin/Chhetri (48%); Janajati (14%); Dalit (11%); Others (27%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>200.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	NA.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Comercial fishing (leased from VDC); Irrigation; Water for livestock; Fodder and forage.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; No public transportation; Teashops in Gugauli village; A few good hotels in Chanauta (about 10 km from lake); No tourism potential.
<b>G. Lake condition</b>	
	Good.

## 15. Naukhane Tal (Sauraha)

Code: P5-D5-015

Toposheet no: 104-01

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°32'44.71"N; Lon.: 82°59'52.64"E; Alt.: 101 masl.

Geographical position

Terai.

Administrative feature

WDR; Kapilvastu district; Sauraha VDC-3; *Piparhawa*.

(Current: Kapilvastu Municipality; Ward no. 12)

Boundary

Core Area: Scrubland and cropfield in west; Cropfield in east, south and north.

Basin Area: Cropfield and Bargadaghat-Bithuwa trail in west; Kodahawa-Bargadaghat road interception with Lausa-Sauraha road in east; Cropfield (Bithuwa village) in south; Kodahawa-Bargadaghat road in north.

Management responsibility

Private.

Wetlands type

Freshwater/manmade; Aquaculture; Temporary.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>o</sup> C (June). Avg. Min.: 4.5<sup>o</sup> C (Dec). Avg. Rainfall: 1,850 mm /yr DDC Profile)

Area

Core Area: 1.5 ha; Avg. Length: 200 m; Avg. Width: 75m; Avg. Depth: 1.2m; Max-Min Surface Water Level: 2.1-0.5; Basin Area: 55 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp: 29<sup>o</sup> C, pH: 6.5; Transparency: 0.1 m.

Soil feature

Grey color; Silty clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

Core Area: *Hydrilla verticillata* (LN: Panijhyau; EN: Hydrilla; HT: Ft); *Ceratophyllum demersum* (LN: Patai; EN: Hornwort; HT: Ft)

Major plants in basin

*Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful); *Dalbergia sisoo* (LN: Sisau; HT: Tr; LU: Tm, Ful); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Ful).

Fish

*Channa sp* (LN: Bhoti; LU: Meat); *Clarius batrachus* (LN: Mangur; LU: Meat); *Colisa fasciatus* (LN: Doctori; LU: Meat); *Puntius sp* (LN: Sidhari; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad).

Bird

*Anser indicus* (LN: Haans; EN: Duck); *Casmerodius albus* (EN: Great Egret; LN: Bakulla).

Mammals

*Herpestes sp* (LN: Nyaurimusa; EN: Mongoose).

Invasive alien species	<i>Ipomoea carnea</i> (LN: Behaya; EN: Morning Glory).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	<i>Belbhariya</i> ; About 1 km from lake; Main Trail: Gorisinghe-Kodahawa-Kopawa road along Gorusinghe-Kopawa Banganga canal with linkroad (Kodahawa-Bargadaghat); About 200 m from linkroad from lake.
Land use	Agriculture (85%); Forest (5%); Wetland (5%); Settlement (5%).
Demography	Population: 598; Male: 302; Female: 296; HHs: 90; Ethnicity: Brahmin/Chhetri (20%); Janajati (10%); Dalit (10%); Others (50%); Major Religion: Hindu.
Jurisdiction/ownership	Private.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	Water well.
Cultural record	None.
Genesis/origin of lake	NA.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Irrigation; Water for livestock.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	No visitors; No public transportation; Teashops in <i>Piparhawa</i> ; No hotels in site but a few hotels with accommodation facilities in Taulihawa (about 6 km from lake); No tourism potential.
<b>G. Lake condition</b>	Good.

## 16. Niglihawa Sagar

Code: P5-D5-016

Toposheet no: 098-13

Date of inventory: April, 2015



### A. General Feature

Conservation status

None; Recognized as religious site.

Geographical coordination

Lat.: 27°35'41.84" N; Lon.: 83°05'50.45" E; Alt.: 108 masl.

Geographical position

Terai.

Administrative feature

WDR; Kapilvastu district; Kapilvastu Municipality-17; Thumuhawa.

(Current: Kapilvastu Municipality; Ward no. 9)

Boundary

Core Area: Ashok Pillar and Guard post in west; Scrub vegetation in east, south and north

Basin Area: Outlet canal of Jagadishpur in west; Jamuwar river in east; Local trail from canal to Semari in south; Link canal from Rampur canal outlet to Jamuwar river in north.

Management responsibility

Lumbini Development Trust.

Wetlands type

Freshwater/Man-made; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>o</sup> C (June). Avg. Min.: 4.5<sup>o</sup> C (Dec). Avg. Rainfall: 1,850 mm /yr (DDC Profile).

Area

Core Area: 3.5 ha; Avg. Length:280 m; Avg. Width: 125 m; Avg. Depth: 0.75 m; Max-Min Surface Water Level: 1.5–0.5 m; Basin Area: 42 ha.

Water Volume

Volume: NA; Inlet: Jagadishpur Irrigation Canal (Intermittent); Outlet: Overflow drainage.

Water quality

Physicochemical parameter: Temp: 26<sup>o</sup> C, pH: 7.5; Transparency: 1.5 m.

Soil feature

Grey color; Silty clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

*Nelumbo nucifera* (LN: Kamal; EN: Lotus; HT: Ft); *Potamogeton nodosus* (LN: Panikhar; EN: Longleaved Pondweed); *Trapa quadrispinosa* (LN: Pani Singada); EN: Water Chestnut)

Major plants in basin

*Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful); *Aegle marmelos* (LN: Bel; HT: Tr; LU: Fruit); *Ficus religiosa* (LN: Pipal; HT: Tr).

Fish

*Channa sp* (LN: Bhoti; LU: Meat); *Clarius batrachus* (LN: Mangur; LU: Meat); *Colisa fasciatus* (LN: Doctori; LU: Meat); *Puntius sp* (LN: Sidhari; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad); *Varanus flavescens* (LN: Sun Gohoro; EN: Golden Monitor Lizard).

Bird	<i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Casmerodius albus</i> (EN: Great Egret; LN: Bakulla); <i>Grus grus</i> (LN: Sarus; EN: Sarus Crane).
Mammals	<i>Boselaphus tragocamelus</i> (LN: Nilgai; EN: Blue Bull); <i>Oryctolagus sp</i> (LN: Kharayo; EN: Rabbit); <i>Canis sp</i> (LN: Syal; EN: Jackal); <i>Herpestes sp.</i> (LN: Nyaurimusa; EN: Mongoose.)
Invasive alien species	<i>Ipomoea carnea</i> (LN: Behaya; EN: Morning glory); <i>Eichhornia crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Ramapur; 500 m from lake; Main Trail: Taulihawa-4 Number road; 8 km from lake to the main trail.
Land use	Agriculture (90%); Shrubland (2%); Wetland (8%).
Demography	Population: 11235; Male: 5435; Female: 5800; HHs: 1941; Ethnicity: Brahmin/Chhetri (20%); Janajati (50%); Dalit (10%); Others (20%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>1500.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	None.
Cultural record	Birthplace of Kanakmadi Buddha marked by the Ashoka Pillar.
Genesis/origin of lake	Believed to exist from 3000 years.

### **D. Ecosystem Goods/Services**

Provisional services	Irrigation.
Cultural services	Religious site.

### **E. Restoration/Management**

Structural management	Earthen embankments in three sides.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

>5000 annual visitors; All season vehicle connectivity from Taulihawa; Local buses available; Few hotels in Taulihawa (about 8 km from lake); Moderate tourism potential; Need tourism promotional activities.

### **G. Lake condition**

Degrading.

## 17. Puraina Tal

Code: P5-D5-017

Toposheet no: 097-15

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°38'53.72"N; Lon.: 82°46'03.47" E; Alt.: 131 masl.

Geographical position

Terai.

Administrative feature

WDR; Kapilvastu district; Gugauli VDC-1; *Puraina*.

(Current: Bijayanagar Rural Municipality; Ward no. 2)

Boundary

Core Area: Mixed forest in all direction.

Basin Area: Balgai and Kkukurbuka village and forest in west; *Chirai Khola* in east; Gugauli-Balgai-Kukurbukuwa trail in south; *Kukurbukuwa Danda* in north (Alt.: 143m) from *Kukurbukuwa* to *Chirai river*.

Management responsibility

VDC.

Wetlands type

Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>o</sup> C (June). Avg. Min.: 4.5<sup>o</sup> C (Dec). Avg. Rainfall: 1,850 mm /yr (DDC Profile)

Area

Core Area: 3 ha; Avg. Length: 200 m; Avg. Width: 100 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 2-0.8 m; Basin Area: 40 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: Irrigation

Water quality

Physicochemical parameter: Temp: 27<sup>o</sup> C, pH: 4.5; Transparency: 0.2 m.

Soil feature

Grey color; Silty clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

*Nelumbo nucifera* (LN: Kamal; EN: Lotus; HT: Ft; HT: Ft); *Potamogeton nodosus* (LN: Panikhar; EN: Longleaved Pondweed; HT: Em).

Major plants in basin

*Acacia catechu* (LN: Khair; HT: Tr; LU: Tm); *Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful); *Aegle marmelos* (LN: Bel; HT: Tr; LU: Fruit); *Syzygium cumini* (LN: Jamun; HT: Tr; LU: Fruit).

Fish

*Labeo rohita* (LN: Rahu; LU: Meat); *Cirrhina mrigala* (LN: Naini; LU: Meat); *Cyprinus Carpio* (LN: Common Carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad); *Varanus flavescens* (LN: Sun Gohoro; EN: Golden Monitor Lizard).

Bird	<i>Anser indicus</i> (LN: Haan; EN: Duck); <i>Casmerodius albus</i> (EN: Great Egret; LN: Bakulla); <i>Grus grus</i> (LN: Sarus; EN: Sarus Crane).
Mammals	<i>Oryctolagus sp</i> (LN: Kharayo; EN: Rabbit); <i>Canis sp</i> (LN: Syal; EN: Jackal); <i>Herpestes sp.</i> (LN: Nyaurimusa; EN: Mongoose).
Invasive alien species	<i>Eichhornia crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth); <i>Ipomoea carnea</i> (LN: Behaya; EN: Morning Glory).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Srinagar</i> ; 200 m from lake; Main Trail: Chanuta-Shankarpur-Gugauli road; 14 km from lake to main trail.
Land use	Forest (40%); Grassland (25%); Agriculture (20%); Wetland (5%); Settlement (5%).
Demography	Population: 2773; Male: 1414; Female: 1359; HHs: 404; Ethnicity: Brahmin/Chhetri (60%); Janajati (20%); Dalit (10%); Others (10%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>300.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	None.
Cultural record	Puraina Baba temple.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Fishery; Water for livestock.
Cultural services	Religious site for Hindu; Local fair during <i>Shivaratri</i> .

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

>500 visitors during local festivals; No public transportation; No night stay place in lake site; Few hotels in Chanauta (about 10 km from lake); No tourism potential.

### G. Lake condition

Good.

## 18. Rajauriya Tal (Complex)

Code: P5-D5-018

Toposheet no: 103-03

Date of inventory: April, 2015



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.:</u> 27°32'05.39" N; <u>Lon.:</u> 82°48'37.9" E; Alt.: 102 masl.
Geographical position	Terai.
Administrative feature	WDR; Kapilvastu district; Krishnanagar Municipality-1. (Current: Krishnanagar Municipality; Ward no. 10)
Boundary	<u>Core Area:</u> Cultivation land in all sides. <u>Basin Area:</u> Local road in west and east; Bargadhawa settlement in north; Government offices, Shiwanagar in south.
Management responsibility	Private.
Wetlands type	Freshwater/Man-made; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.:</u> 43 <sup>0</sup> C (June). <u>Avg. Min.:</u> 4.5 <sup>0</sup> C (Dec). <u>Avg. Rainfall:</u> 1,850 mm /yr (DDC Profile).
Area	<u>Core Area:</u> 12 ha (13 ponds of different size); Avg. Length: 300 m; Avg. Width: 200 m; Avg. Depth: 1.2 m; Max-Min Surface Water Level: 1.8–1 m; <u>Basin Area:</u> 40 ha.
Water Volume	<u>Volume:</u> NA; <u>Inlet:</u> None; <u>Outlet:</u> None.
Water quality	<u>Physicochemical parameter:</u> Temp: 28 <sup>0</sup> C, pH: 6.5; Transparency: 0.3 m.
Soil feature	Grey color; Silty clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	None.
Major plants in basin	<i>Ficus religiosa</i> (LN: Peepal; HT: Tr); <i>Dalbergia sisoo</i> (LN: Sisau; HT: Tr); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Ful, Fruit).
Fish	<i>Labeo rohita</i> (LN: Rahu; LU: Meat); <i>Cirrhina mrigala</i> (LN: Naini; LU: Meat); <i>Cyprinus carpio</i> (LN: Common Carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver Carp; LU: Meat).
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto; EN: Frog); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common Lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad).
Bird	<i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Casmerodius albus</i> (EN: Great Egret; LN: Bakulla); <i>Grus grus</i> (LN: Sarus; EN: Sarus Crane); <i>Amaurornis phoenicurus</i> (LN: Sim Kukhura; EN: Whitbreasted Waterhen).



Mammals	<i>Oryctolagus sp</i> (LN: Kharayo; EN: Rabbit); <i>Herpestes sp</i> (LN: Nyaurimusa; EN: Mongoose); <i>Canis sp</i> (LN: Syal; EN: Jackal).
Invasive alien species	None.
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	<i>Shiwanagar</i> ; 100 m from lake; Main Trail: Chanauta Krishnanagar road; 10km from lake to the main trail.
Land use	Agriculture (80%); Settlement (10%); Grassland (5%); Wetland (5%).
Demography	Population: 1774; Male: 915; Female: 859; HHs: 246; Ethnicity: Brahmin/Chhetri (20%); Janajati (30%); Dalit (20%); Others (30%); Major Religion: Hindu.
Jurisdiction/ownership	Private.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	Owner constructed this pond system some 30 years ago.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Commercial fish farming.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; Local transportation available; Hotels accommodation facilities available; No tourism potential.
<b>G. Lake condition</b>	
	Good.

## 19. Sagar Tal

Code: P5-D5-019

Toposheet no: 104-01

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°32'22.64" N; Lon.: 83°03'24.06" E; Alt.: 106 masl.

Geographical position

Terai.

Administrative feature

WDR; Kapilvastu district; Kapilvastu Municipality-5; *Bargaduwa*.

(Current: Kapilvastu Municipality; Ward no. 2)

Boundary

Core Area: Local link roads in west and east; Government office, banks and private buildings in south; Bargadhawa settlement in north.

Basin Area: Taulihawa-Maryadpur road in west; *Jamuyar Nala* in east; Bardhawa-Ramatlaha road intersecting to – Maryadpur road following outlet of *Jamuyar Nala* above Madhubariya in south; Mal Tol-Jauyar Tole road in north.

Management responsibility

Municipality.

Wetlands type

Freshwater/Man-made; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>0</sup> C (June). Avg. Min.: 4.5<sup>0</sup> C (Dec). Avg. Rainfall: 1,850 mm /yr (DDC Profile).

Area

Core Area: 3.8ha; Avg. Length: 800 m; Avg. Width: 50 m; Avg. Depth: 1.3 m; Max-Min Surface Water Level: 2.5–1 m; Basin Area: 40 ha.

Water Volume

Volume: NA; Inlet: Jagadishpur Irrigation Canal (Intermittent); Outlet: Discharge to branchlet of Jagadishpur Canal.

Water quality

Physicochemical parameter: Temp: 24<sup>0</sup> C, pH: 7.5; Transparency: 0.4 m.

Soil feature

Grey color; Clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

Core Area: *Nelumbo nucifera* (LN: Kamal; EN: Lotus; HT: Ft; HT: Ft); *Potamogeton nodosus* (LN: Panikhar; EN: Longleaved Pondweed; HT: Em).

Major plants in basin

*Ficus religiosa* (LN: Peepal; HT: Tr; LU: Rel); *Dalbergia sissoo* (LN: Sisam; HT: Tr; LU: Tm); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Tm); *Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful).

Fish

*Labeo rohita* (LN: Rahu; LU: Meat); *Cirrhina mrigala* (LN: Naini; LU: Meat); *Cyprinus carpio* (LN: Common Carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver; LU: Meat).

Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto; EN: Frog); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common Lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad).
Bird	<i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Casmerodius albus</i> (EN: Great Egret; LN: Bakulla).
Mammals	<i>Herpestes sp</i> (LN: Nyaurimusa; EN: Mongoose)
Invasive alien species	<i>Eichhornia crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Bargadawa</i> ; 100 m from lake; Main Trail: Taulihawa Buspark–Bhairahawa road; 500m from lake to the main trail.
Land use	Agriculture (60%); Settlement (30%); Shrubland (5%); Wetland (5%).
Demography	Population: 2187; Male: 1069; Female: 1118; HHs: 404; Ethnicity: Brahmin/Chhetri (25%); Janajati (40%); Dalit (10%); Others (25%); Major Religion: Hindu.
Jurisdiction/ownership	Municipality.
Wetlands dependent community	None.
Livestock at basin	>200.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	NA
Genesis/origin of lake	Constructed 40 years ago by the landlord.

### D. Ecosystem Goods/Services

Provisional services	Fishery.
Cultural services	None.

### E. Restoration/Management

Structural management	Concrete embankment.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No visitors; Local transportation available; Few hotels in Taulihawa avenue (about 500 m from lake); No tourism potential.

### G. Lake condition

Good.

## 20. Sagarhawa Tal

Code: P5-D5-020

Toposheet no: 098-13

Date of inventory: April, 2015



### A. General Feature

Conservation status

None, but religious site.

Geographical coordination

Lat.: 27°36'46.89" N; Lon.: 83°05'20.19" E; Alt.: 111 masl.

Geographical position

Terai.

Administrative feature

WDR; Kapilvastu district; Niglihawa VDC-09; *Sagarhawa*.

(Current: Kapilvastu Municipality; Ward no. 9)

Boundary

Core Area: Grassland in all direction.

Basin Area: Interface of Jagadishpur forest, grassland and cropland (Chamkipur) in west; Tilaurakot-Jagadishpur road via Shrinagar in east; Link trail from Chamkipur to Taulihawa-Shrinagar-Jagadishpur road in south; Sita CF and Jagadishpur Bazaar in north.

Management responsibility

VDC.

Wetlands type

Freshwater/Man-made; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>o</sup> C (June). Avg. Min.: 4.5<sup>o</sup> C (Dec). Avg. Rainfall: 1,850 mm /yr (DDC Pofile)

Area

Core Area: 2.5 ha; Avg. Length: 320 m; Avg. Width: 75 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 2.5-1.2 m; Basin Area: 40 ha.

Water Volume

Volume: NA; Inlet: Jagadishpur Irrigation Canal (Intermittent); Outlet: One natural outlet.

Water quality

Physicochemical parameter: Temp: 29<sup>o</sup> C, pH: 7; Transparency: 0.5 m.

Soil feature

Grey color; Silty clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

Core Area: *Nelumbo nucifera* (LN: Kamal; EN: Lotus; HT: Ft; HT: Ft); *Potamogeton nodosus* (LN: Panikhar; EN: Longleaved Pondweed; HT: Em).

Major plants in basin

*Acacia catechu* (LN: Khair; HT: Tr); *Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful); *Aegle marmelos* (LN: Bel; HT: Tr; LU: Fruit); *Syzygium cumini* (LN: Jamun; HT: Tr; LU: Fruit).

Fish

*Labeo rohita* (LN: Rahu; LU: Meat); *Cirrhina mrigala* (LN: Naini; LU: Meat); *Cyprinus carpio* (LN: Common Carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver Carp; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad); *Varanus flavescens* (LN: Sun Gohoro; EN: Golden Monitor Lizard)

Bird	<i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Casmerodius albus</i> (EN: Great Egret; LN: Bakulla); <i>Grus grus</i> (LN: Sarus; EN: Sarus Crane).
Mammals	<i>Oryctolagus sp</i> (LN: Kharayo; EN: Rabbit); <i>Canis sp</i> (LN: Syal; EN: Jackal); <i>Boselaphus tragocamelus</i> (LN: Nilgai; EN: Blue Bull); <i>Herpestes sp.</i> (LN: Nyaurimusa; EN: Mongoose)
Invasive alien species	<i>Eichhornia crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Srinagar</i> ; About 1 km m from lake; Main Trail: Taulihawa–4 Number road; Very close to lake.
Land use	Forest (40%); Grassland (30%); Agriculture (20%); Wetland (5%); Settlement (5%).
Demography	Population: 1223; Male: 587; Female: 636; HHs: 205; Ethnicity: Brahmin/Chhetri (50%); Janajati (10%); Dalit (11%); Others (29%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>300.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	None.
Cultural record	Ancient story believe the site being place for mass killing of the Sakyas by King Virudhaka; Excavation of ancient stupa.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Water for biodiversity and livestock; Fodder & fuelwood; Timber.
Cultural services	Cultural site; Buddhist pilgrims visiting lakes.

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

>5000 annual Buddhist pilgrims; Jeep service from Taulihawa twice a day; Teashops in Jagadishpur Bazaar; A few hotels in Taulihawa (about 10 km from lake); No tourism potential.

### G. Lake condition

Good.

## 21. Shakubaniya Tal (Sakhubir Tal)

Code: P5-D5-021

Toposheet no: 097-16

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°36'43.64"N; Lon.: 82°56'10.19"E; Alt.: 111 masl.

Geographical position

Terai.

Administrative feature

WDR; Kapilvastu district; Manpur VDC (1, 2, 3, 7) & Thuniya VDC-5; *Sakhubaniya*.

(Current: Buddhabhumi Municipality; Ward no. 7)

Boundary

Core Area: Cropfield in all direction.

Basin Area: Semari-Bishanpur road in west and south; Parshurampur-Sakhubaniya-Bisanpur road in east; Nagadiha and Banardiha village in north.

Management responsibility

VDC.

Wetlands type

Freshwater/Man-made; Water storage tank.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43° C (June). Avg. Min.: 4.5° C (Dec). Avg. Rainfall: 1,850 mm /yr (DDC Profile).

Area

Core Area: 55 ha; Avg. Length: 800 m; Avg. Width: 700 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 4–1.5 m; Basin Area: 500 ha.

Water Volume

Volume: NA; Inlet: *Jawai Khola*; Outlet: Irrigation canal.

Water quality

Physicochemical parameter: Temp: 28° C, pH: 7.5; Transparency: 0.3 m.

Soil feature

Grey color; Clay loam texture.

Shocks/vulnerability

Encroachment.

Major aquatic plants

Core Area: *Nelumbo nucifera* (LN: Kamal; EN: Lotus; HT: Ft); *Potamogeton nodosus* (LN: Panikhar; EN: Longleaved Pondweed; HT: Em).

Major plants in basin

*Ficus religiosa* (LN: Peepal; HT: Tr); *Dalbergia sisoo* (LN: Sisau; HT: Tr; LU: Tm); *Mangifera indica* (LN: Aanp; HT: Tr; LU: Fruit).

Fish

*Labeo rohita* (LN: Rahu; LU: Meat); *Cirrhina mrigala* (LN: Naini; LU: Meat); *Cyprinus carpio* (LN: Common Carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver Carp; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad); *Varanus flavescens* (LN: Sun Gohoro; EN: Golden Monitor Lizard)

Bird

*Anser indicus* (LN: Haans; EN: Duck); *Casmerodius albus* (EN: Great Egret; LN: Bakulla); *Grus grus* (LN: Sarus; EN: Sarus Crane).

Mammals	<i>Herpestes sp</i> (LN: Nyaurimusa; EN: Mongoose)
Invasive alien species	<i>Eichhornia crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	<i>Sakhubaniya</i> ; 300 m from lake; Main Trail: Kharindrapur-Semari-Bishanpur linkroad from Mahendra Highway; About 11 km from lake to Kharindrapur (Highway section).
Land use	Agriculture (60%); Forest (30%); Settlement (15%); Wetland (5%).
Demography	Population: 2889; Male: 1458; Female: 1431; HHs: 429; Ethnicity: Brahmin/Chhetri (18%); Janajati (14%); Dalit (23%); Others (45%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	Constructed some 30 years for water storage tank (irrigation) damming <i>Jawaikhola</i> .
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fishery; Irrigation; Grasses and reeds.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	Earthen impoundment around lake.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; Local transportation available; Teashops in Bhadokhar and Nagadiha; No hotels in site but a few in Chanauta (15 km from lake); No tourism potential.
<b>G. Lake condition</b>	
	Degrading.

## 22. Shankarpur Tal

Code: P5-D5-022

Toposheet no: 097-15

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°38'49.23"N; Lon.: 82°48'25.53"E; Alt.: 130 masl.

Geographical position

Terai

Administrative feature

WDR; Kapilvastu district; Gugauli VDC-08.

(Current: Bijayanagar Rural Municipality; Ward no. 2)

Boundary

Core Area: Forests in west and north; Cropfield in east; earthen dam in south.

Basin Area: Interface of Sal forest and cropfield (Bagaihiya & Jallahiya) in west; Forest trail from *Surahi Khola* following border of Pathardeiya VDC in east; Mahuwari, *Bhatani Khola* in south; Linktrail from bagwanpur-Krishnanagar road meeting to *Surahi Khola* in north.

Management responsibility

VDC.

Wetlands type

Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>0</sup> C (June). Avg. Min.: 4.5<sup>0</sup> C (Dec). Avg. Rainfall: 1,850 mm /yr (DDC Profile).

Area

Core Area: 13 ha; Avg. Length: 500 m; Avg. Width: 300 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 2.5-1 m; Basin Area: 170 ha.

Water Volume

Volume: NA; Inlet: Dry stream; Outlet: Irrigation canal.

Water quality

Physicochemical parameter: Temp: 27<sup>0</sup> C, pH: 7.5; Transparency: 0.5 m.

Soil feature

Grey color; Silty clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

Core Area: None.

Major plants in basin

*Acacia catechu* (LN: Khair; HT: Tr; LU: Ful; Dye); *Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful); *Dalbergia sisoo* (LN: Sisau; HT: Tr; LU: Tm); *Syzygium cumini* (LN: Jamun; HT: Tr; LU: Fruit); *Shorea robusta* (LN: Sal; HT: Tr; U: Tm).

Fish

*Labeo rohita* (LN: Rahu; LU: Meat); *Cirrhina mrigala* (LN: Naini; LU: Meat); *Cyprinus carpio* (LN: Common Carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver Carp; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad).

Bird

*Anser indicus* (LN: Haans; EN: Duck); *Casmerodius albus* (EN: Great Egret; LN: Bakulla); *Grus grus* (LN: Sarus; EN: Sarus Crane).



Mammals	<i>Oryctolagus sp</i> (LN: Kharayo; EN: Rabbit); <i>Canis sp</i> (LN: Syal; EN: Jackal); <i>Herpestes sp</i> (LN: Nyaurimusa; EN: Mongoose)
Invasive alien species	<i>Ipomoea carnea</i> (LN: Behaya; EN: Morning Glory).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	<i>Tripalnagar</i> ; 200 m from lake; Main Trail: Bhagawanpur-Krishnanagar road; About 4 km from lake to the main trail.
Land use	Forest (60%); Grassland (5%); Agriculture (30%); Wetland (2%); Settlement (3%).
Demography	Population: 487; Male: 245; Female: 242; HHs: 82; Ethnicity: Brahmin/Chhetri (48%); Janajati (14%); Dalit (11%); Others (27%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Irrigation; Water for livestock; Fishery; Fodder & forage; Fuelwood; NTFPs.
Cultural services	Aesthetic and scenic.
<b>E. Restoration/Management</b>	
Structural management	Dam.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; Public transportation available; No teashops and hotels in lake site but in Chanauta; No tourism potential.
<b>G. Lake condition</b>	
	Good.

## 23. SirsihawaTal

Code: P5-D5-023

Toposheet no: 103-03

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°30'22.40"N; Lon.: 82°46'8.98"E; Alt.: 101 masl.

Geographical position

Terai

Administrative feature

WDR; Kapilvastu district; Krishnanagar Municipality-9; Sirshihawa.

(Current: Krishnanagar Municipality; Ward no. 4)

Boundary

Core Area: Cultivation land in all direction.

Basin Area: Chhagrohawa Nala in west; Local trail west of laxminagar in east; India border in south; Trail from Chhagrihawa Nala to Krishnanagar city in north.

Management responsibility

VDC.

Wetlands type

Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>0</sup> C (June). Avg. Min.: 4.5<sup>0</sup> C (Dec). Avg. Rainfall: 1,850 mm /yr (DDC Profile).

Area

Core Area: 2ha; Avg. Length: 300 m; Avg. Width: 90m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 2.5–1.0 m; Basin Area: 40 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp: 30<sup>0</sup> C, pH: 7.5; Transparency: 0.3 m.

Soil feature

Grey color; Silty clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

None.

Major plants in basin

*Ficus religiosa* (LN: Peepal; HT: Tr; LU: Rel); *Dalbergia sisoo* (LN: Sisau; HT: Tr; LU: Tm, ful); *Mangifera indica* (LN: Aanp; HT: Tr; LU: Ful, Fruit).

Fish

*Labeo rohita* (LN: Rahu; LU: Meat); *Cirrhina mrigala* (LN: Naini; LU: Meat); *Cyprinus carpio* (LN: Common Carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver Carp; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad).

Bird

*Anser indicus* (LN: Haans; EN: Duck); *Casmerodius albus* (EN: Great Egret; LN: Bakulla); *Grus grus* (LN: Sarus; EN: Sarus Crane); *Amaurornis phoenicurus* (LN: Sim Kukhura; EN: Whitebreasted Waterhen).

Mammals

*Herpestes sp* (LN: Nyaurimusa; EN: Mongoose); *Canis sp* (LN: Syal; EN: Jackal).

Invasive alien species	None.
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	<i>Sirsihawa</i> ; 100 m from lake; Main Trail: Chanauta-Krishnanagar road; 3 km from lake to the main trail and Krishnanagr.
Land use	Agriculture (80%); Settlement (10%); Grassland (5%); Wetland (5%).
Demography	Population: 1164; Male: 617; Female: 547; HHs: 145; Ethnicity: Brahmin/Chhetri (15%); Janajati (25%); Dalit (11%); Others (49%); Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	Believed to exist from >100 years.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fishery; Irrigation; Water for livestock.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	No visitors; Local transportation available; Few hotels in Krishnanagar (3 km from lake); No tourism potential.
<b>G. Lake condition</b>	Good.

## 24. Sisawa Tal (Majhaura)

Code: P5-D5-024

Toposheet no: 104-02

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°27'21.50"N; Lon.: 83° 8'4.41"E; Alt.: 94 masl.

Geographical position

Terai

Administrative feature

WDR; Kapilvastu district; Pipara VDC-6; *Chak Chauda*.

Boundary

Core Area: Cropland in west, east and north; India border in south.

Basin Area: Chakarchauda Bazaar and trail up to *Simrai Khola* in west; Cropfield and *Simrai Khola* in east; India border in south; *Simrai Khola* in north.

Management responsibility

VDC.

Wetlands type

Freshwater/natural; Riverine; Perennial.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 43<sup>0</sup> C (June). Avg. Min.: 4.5<sup>0</sup> C (Dec). Avg. Rainfall: 1,850 mm /yr DDC Profile).

Area

Core Area: 177 ha (17 ha in Nepal); Avg. Length: 2700 m; Avg. Width: 816 m; Avg. Depth: 4 m; Max-Min Surface Water Level: 3-1.5 m; Basin Area: 300 ha (Nepal).

Water Volume

Volume: NA; Inlet: *Sisai Nala*; Outlet: Irrigation canal (India).

Water quality

Physicochemical parameter: Temp: 27<sup>0</sup> C; pH: 7; Transparency: 0.4 m;

Soil feature

Grey color; Sandy silt & clay texture.

Shocks/vulnerability

Encroachment; Invasion of weed.

Major aquatic plants

*Nelumbo nucifera* (LN: Kamal; EN: Lotus; HT: Ft; HT: Ft); *Potamogeton nodosus* (LN: Panikhar; EN: Longleaved Pondweed; HT: Em); *Saccharum heteropogon* (LN: Kans; EN: Broom Sedge; HT: Em).

Major plants in basin

*Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful); *Ficus religiosa* (LN: Pipal; HT: Tr).

Fish

*Channa sp* (LN: Bhoti; LU: Meat); *Clarius batrachus* (LN: Mangur; LU: Meat); *Colisa fasciatus* (LN: Doctori; LU: Meat); *Puntius sp* (LN: Sidhari; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Ptyas mucosa* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad)

Bird

*Anser indicus* (LN: Haans; EN: Duck); *Casmerodius albus* (EN: Great Egret; LN: Bakulla); *Grus grus* (LN: Sarus; EN: Sarus Crane).

Mammals

*Boselaphus tragocamelus* (LN: Nilgai; EN: Blue Bull); *Canis sp* (LN: Syal; EN: Jackal); *Herpestes sp* (LN: Nyaurimusa; EN: Mongoose).

Invasive alien species	<i>Ipomoea carnea</i> (LN: Behaya; EN: Morning Glory); <i>Eichhornia crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	<i>Chakad Chauda</i> ; 100 m from lake; Main Trail: Pakadi section of Taulihawa-Bhairahava highway)-Chakadchauda; 1.5 km from lake to the main trail (Chakad Chauda).
Land use	Forest land (10%); Agriculture (70%); Settlement (15%); Wetland (5%).
Demography	Population: 972; Male: 505; Female: 467; HHs:144; Ethnicity: Brahmin/Chhetri (10%); Janajati (50%); Dalit (20%); Others (20%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>700.
Traditional production system	Conventional paddy plantation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	Dam constructed in India during British rule (Mr. Bird)
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Irrigation; Water for livestock; Fishery.
Cultural service	None.
<b>E. Restoration/Management</b>	
Structural management	Dam and embankments in the Indian section.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	No visitors. No tourism potential yet; Transboundary lake; Needs explorative study.
<b>G. Lake condition</b>	Degrading.

## Annex-46: Inventory of lakes in Parasi district

### 1. Amar Pokhari

Code: P5-D6-001

Toposheet no: 099-14

Date of inventory: February, 2014

Compiler's name: Aman Dangaura,  
Prakash Sigdel and Pradeep Raj  
Joshi.



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 35' 55" N; <u>Lon.</u> : 83° 42' 3.89" E; <u>Alt.</u> : 135 m amsl.
Geographical position	Tarai.
Administrative feature	WDR: Nawalparasi district; Ramnagar VDC; Ward 6; Kerwani. (Current: Sunwal Municipality; Ward no. 11)
Boundary	<u>Core area</u> : Natural dam; Foot trail in all direction.
<u>Basin Area</u>	Settlement in east, west and south; Temple and Agricultural land in north.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 37° C (Jun/Jul). <u>Avg. Min.</u> : 5° C (Dec); Avg Rainfall: 2145 mm per yr.
Area	<u>Core area</u> : Approx. 1 ha; Avg. Length: 95 m; Avg. Width: 80 m; Avg. Depth: 2 m; Max - Min Surface Water Level: 2.5 - 0.5 m; <u>Basin Area</u> : 5 ha.
Water Volume	Peak Period: 20,000 m <sup>3</sup> ; Dry period: 5,000 m <sup>3</sup> ; Inlet: Musyarni strem, Pratappur stream; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 21° C; pH: Slightly acidic; Transparency: 0.7 m
Soil feature	Grey color, Sandy silt loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Nelumbo nucifera</i> (LN: Kamal, HT: Ff); ... (LN: Dhaincha Jhar, HT: Em; LU: Biofertilizer).
Major plants in basin	<i>Mangifera indica</i> (LN: Aap, HT: Tr, LU: Fr); <i>Azadirachta indica</i> (LN: Neem, HT: Tr, LU: Med); <i>Aegle marmelos</i> (LN: Bel, HT: Tr; LU: Fr); <i>Musa</i> sps (LN: Kera, HT: Tree, LU: Fr); <i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr, LU: Tm); <i>Anthocephalus chinensis</i> (LN: Kadam; HT: Tr; LU: FW).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Clarias batrachus</i> (LN: Maur; LU: Meat).
Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i>

	(LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait); ... (LN: Kachhuwa).
Birds	<i>Acridotheres tristis</i> (LN: Dangre); <i>Streptopelia decaocto</i> (LN: Dhukur; LU: Meat); <i>Casmerodius albus</i> (LN: Bakulla; EN: Crane), <i>Corvus splendens</i> (LN: Kaag); <i>Passer domesticus</i> (LN: Bhangera; EN: Sparrow); <i>Lophura leucomelanos</i> (LN: Kaliz; EN: Kalij pheasant).
Mammals	<i>Ursus ursinus</i> (LN: Bhalu); <i>Hystrix indica</i> (LN: Dhumsi); <i>Canis chaus</i> (LN: Syal); <i>Sus scrofa</i> (LN: Bandel); <i>Naemorhedus goral</i> (LN: Ghoral); ... (LN: Kharayo).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin/Peripheri

Nearby settlement	Kerwani; 10 m from lake; Main Trail: Bhumahi - Kerwani Road (3 km).
Land use	Forestland (5%); Settlement (10%); Agricultural (80%); Wetland (5%).
Demography	Population: 130; Male: 60 Female: 70 HHS: 26; Ethnicity: Brahmin/Chhetri (95%); Janajati (5%); Major religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	Approx. 130 no.
Traditional production system	Traditional paddy plantation.
Traditional water use practices	Farmer manged small irrigation canal.
Cultural record	Ram Mandir.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Fishery, Domestic water supply.
Cultural services	Religious site; Myth that people gets purified if water of this lake offered to Baba Bardagoriya temple staged at lakeshore of this lake; Loca fair during Teej, Krishna Janmasthanmi.

### E. Restoration/Management

Structural management	None.
Non-structural management	Volunteer restriction for any pollution.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

>1 lakh visitors every year during Teej festival even from India;  
No tourism potential.

### G. Lake condition

Good.

## 2. Bauliya Lake

Code: P5-D6-002

Toposheet no: 105 - 02

Date of inventory: February, 2014

Compiler's name: Aman Dangaura, Pradeep Raj Joshi and Prakash Sigdel



### A. General Feature

Conservation status	None.
Geographical coordination	Lat.: 27° 28' 16.3" N; Lon.: 83° 40' 56.6" E; Alt.: 79 masl.
Geographical position	Terai.
Administrative feature	WDR; Nawalparasi district; Kushma VDC; Ward no. 4; Parsiya. (Current: Palhi Nandan Rural Municipality; Ward no. 4)
Boundary	<u>Core area</u> : Natural embankment in west and north, Road in south, Culvert and mud wall in east. <u>Area</u> : Settlement in west, Foot trail in east, Gravel road in south, Agricultural land in north.
Management Responsibility	Shree Siddhartha Higher Secondary School, Kushma.
Wetlands type	Man-made and Aquaculture.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 37° C (Jun/Jul). <u>Avg. Min.</u> : 5° C (Dec); Avg Rainfall: 2145 mm per yr.
Area	<u>Core area</u> : Approx.0.5 ha; Avg. Length: 40 m; Avg. Width: 30 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: 3 - 1 m; <u>Basin Area</u> : 3 ha.
Water Volume	Peak Period: 3,000 m <sup>3</sup> ; Dry period: 1,000 m <sup>3</sup> ; Inlet: None. Outlet: none.
Water quality	<u>Physicochemical parameter</u> : Temp.: 23° C; pH: 6; Transparency 0.5 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Eichornia crassipes</i> (LN: Jalkhumbi; HT: Ff; LU: None); <i>Ipomea carnea</i> (LN: Besharam; HT: Em; LU: None); <i>Saccharum spontaneum</i> (LN: Kaans; HT: Em; LU: Handicraft).
Major plants in basin	<i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: None), <i>Dalbergia sissoo</i> (LN: sisau; HT: Tr; LU: Ful).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat); <i>Aristichthys nobilis</i> (LN: Bighead; LU: Meat).



Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman).
Birds	<i>Acridotheres tristis</i> (LN: Dangre); <i>Streptopelia decaocto</i> (LN: Dhukur; LU: Meat); <i>Casmerodius albus</i> (LN: Bakulla; EN: Crane), <i>Corvus splendens</i> (LN: Kaag); <i>Passer domesticus</i> (LN: Bhangera; EN: Sparrow).
Mammals	None.
Invasive alien species	<i>Eichorrnea crassipes</i> ; <i>Ipomea carnea</i> .
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Parsiya; 20 m from lake; Main Trail: Sunwal – Maheshpur Road.
Land use	Agricultural land (70%); Wetlands (5%); Settlement (20%); Others (5%).
Demography	Population: 65; Male: 30; Female: 35; HHs: 12; Ethnicity: Muslim (35%), Others {Lunia (40%), Gupta (15%), Giri (10%)}; Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	> 40 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Community managed small canals.
Cultural record	None.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Fish supply; Irrigation (water drined out from pumpset).
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

No tourism potential.

### **G. Lake condition**

Degrading.

### 3. Buddha Mangal Tal

Code: P5-D6-003

Toposheet no: 105 – 03

Date of inventory: February, 2014

Compiler's name: Aman  
Dangaura, Pradeep Raj Joshi and  
Prakash Sigdel.



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27° 30' 30" N; Lon.: 83° 46' 10" E; Alt.: 100 m amsl.

Geographical position

Terai.

Administrative feature

WDR; Nawalparasi district; Jahada VDC; Ward no. 5; Dabila.

(Current: Bardaghat Municipality; Ward no. 12)

Boundary

Core area: Stone embankment in west and south; Grassland in east; Irrigation canal in north.

Basin Area: Agricultural land in east, north, west; Settlement in south.

Management Responsibility

Buddha Mangal Jagrati Ban Upabhokta Samiti.

Wetlands type

Man-made and aquaculture.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 37° C (Jun/Jul). Avg. Min.: 5° C (Dec); Avg Rainfall: 2145 mm per yr.

Area

Core area: About 2 ha; Avg. Length: 150 m; Avg. Width: 130 m; Avg. Depth: 3.5 m; Max - Min Surface Water Level: 5 – 2 m; Basin Area: 5 ha.

Water Volume

Peak Period: 100,000 m<sup>3</sup>; Dry period: 40,000 m<sup>3</sup>; Inlet: None. Outlet: none.

Water quality

Physicochemical parameter: Temp.: 16° C; pH: Slightly acidic; Transparency: 0.3 m.

Soil feature

Grey/dark color; Clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

Core area: *Ipomea carnea* (LN: Besharam; HT: Em; LU: None); *Eichhornea crassipes* (LN: Jalkhumbi; HT: Ff; LU: None); *Nelumbo nucifera* (LN: Kamal; HT: FF; LU: None); *Saccharum munja* (LN: Munj; HT: Hr; LU: Handicraft).

Major plants in basin

*Shorea robusta* (LN: Sal; HT: Tr; LU: Tm, Ful); *Bombax ceiba* (LN: Simal; HT: Tr; LU: None); *Bambusa* spp. (LN: Bans; HT: Hr; LU: Handicraft, Fd); *Mallotes philippensis* (LN: Rohini; HT: Tr; LU: Ful); *Ageratum conyzoides* (LN: Gandhe; HT: Hr; LU: None); *Mangifera indica* (LN: Aanp; HT: Tr; LU: Fruit); *Ficus religiosa* (LN: Peepal; HT: Tr; LU: Religious Tr); *Dalbergia sisso* (LN: Sisau; HT: Tr; LU: Ful).

Fish

*Syprinus carpio* (LN: Common carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver carp; LU: Meat); *Ctenopharyngodon idella* (LN: Grass carp; LU: Meat); *Labeo rohita* (LN: Rahu; LU: Meat).

Herpetofauna	<i>Xenochrophis piscator</i> (LN: Pani saap/pankhedra); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait).
Birds	<i>Nettapus coromandelianus</i> (LN: Tel haans); <i>Alcedo atthis</i> (LN: Sano matokore; EN: Kingfisher); <i>Gyps bengalensis</i> (LN: Giddha; EN: vulture); <i>Acridotheres tristis</i> (LN: Dangre); <i>Acridotheres sp</i> (LN: Mynah); <i>Corvus splendens</i> (LN: Kaag); <i>Streptopelia decaocto</i> (LN: Dhukur; EN: Dove); <i>Dicrurus macrocercus</i> (LN: Chibe; EN: Black drongo).
Mammals	<i>Canis aureus</i> (LN: Syal).
Invasive alien species	<i>Ipomea carnea</i> ; <i>Eichornia crassipes</i> .
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Dabila; 100 m from lake; Main Trail: Hulaki road; 200 m from lake; (Parasi – Dabila road; 8 km).
Land use	Agricultural land (90%); Wetlands (5%); Settlement (5%).
Demography	Population: 1200; Male: 650; Female: 550; HHs: 250; Ethnicity; Brahmin/Chhetri (50%) Janajati (22%); Dalit (26%); Others (2%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	Approx. 800 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Religious pond.
Cultural record	Spiritual power believe to exist in lake.
Genesis/origin of lake	NA.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fish supply.
Cultural services	Festival (Mela in Shivaratri and Krishna janmasthan).
<b>E. Restoration/Management</b>	
Structural management	Stone embankment with the help of DDC.
None-structural management	Volunteer restriction for any pollution.
Economic incentives	Yes (fencing from DDC).
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
Visits during major festivals; No tourism potential	
<b>G. Lake condition</b>	
Good.	

#### 4. Devdaha Pokhari

Code: P5-D6-004

Toposheet no: 099 - 13

Date of inventory: February, 2014

Compiler's name: Aman

Dangaura, Pradeep Raj Joshi and  
Prakash Sigdel



##### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 36' 42.5" N; <u>Lon.</u> : 83° 34' 52.9" E; <u>Alt.</u> : 111 m amsl.
Geographical position	Terai.
Administrative feature	WDR; Nawalparasi district; Sunwal VDC; Ward no. 7; Targauli. (Current: Sunwal Municipality; Ward no. 7)
Boundary	<u>Core area</u> : Natural embankment in north and west, Stone embankment east and south. <u>Basin Area</u> : Temple area in south; Settlement in east, west and north.
Management Responsibility	Aitihashik Devdaha Samrakshan Ebam Punarnirman Samaj.
Wetlands type	Man-made.

##### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 37° C (Jun/Jul). <u>Avg. Min.</u> : 5° C (Dec); Avg Rainfall: 2145 mm per yr.
Area	<u>Core area</u> : 1 ha; Avg. Length: 120 m; Avg. Width: 90 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: 3.5 - 1 m; <u>Basin Area</u> : 9 ha.
Water Volume	Peak Period: 40,000 m <sup>3</sup> ; Dry period: 10,000 m <sup>3</sup> ; Inlet: None. Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 22° C; pH: Slightly acidic; Transparency: 0.2 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Eichhornea crassipes</i> (LN: Jalkhumbi; HT: Ff; LU: None); <i>Nelumbo nucifera</i> (LN: Kamal; HT: FF; LU: None).
Major plants in basin	<i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm, Ful); <i>Bambusa</i> spp. (LN: Bans; HT: Hr; LU: Handicraft, Fd); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Religious Tr); <i>Ficus benghalensis</i> (LN: Bar; HT: Tr; LU: Religious Tr).
Fish	<i>Puntius chola</i> (LN: Sidhri; LU: None); ... (LN: Kotri; LU: None); <i>Clarias batrachus</i> (LN: Mangur; LU: None); <i>Labeo rohita</i> (LN: Rahu; LU: Meat); ... (LN: Parhni; LU: None); <i>Mastacembelus armatus</i> (LN: Bam; LU: None).

Herpetofauna	<i>Xenochrophis piscator</i> (LN: Pani saap/pankhedra); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); ... (LN: Kachhuwa).
Birds	<i>Nettapus coromandelianus</i> (LN: Tel haans); <i>Acridotheres tristis</i> (LN: Dangre); <i>Acridotheres</i> spp. (LN: Mynah).
Mammals	<i>Canis aureus</i> (LN: Syal).
Invasive alien species	<i>Eichhornea crassipes</i> .
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Targauli; 10 m from lake; Main Trail: Khaireni – Targauli road; 150 m).
Land use	Forest (50%) Agricultural land (20%); Wetlands (5%); Settlement (20%); Others (5%).
Demography	Population: 690; Male: 320; Female: 370; HHs: 150; Ethnicity: Brahmin/Chhetri (3%); Janajati (Tharu: 95%); Others (2%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	Approx. 350.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	Religious site; Archaeological records available.
Genesis/origin of lake	NA; Considered to be as a very historic and ancient lake.

### **D. Ecosystem Goods/Services**

Provisional services	None.
Cultural services	Religious service; Holy dip to lake believes to purify body.

### **E. Restoration/Management**

Structural management	Built of stone dams.
None-structural management	Informal rule (Restriction for any type of pollution).
Economic incentives	Provided by VDC for stone embankment.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

Many religious visitors; Moderate tourism potential; Needs improvement in infrastructure and HR development; Needs marketing.

### **G. Lake condition**

Good.

## 5. Dhanewa Pokhari

Code: P5-D6-005

Toposheet no: 105 – 03

Date of inventory: February, 2014

Compiler's name: Aman

Dangaura, Pradeep Raj Joshi and

Prakash Sigdel.



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27° 28' 55.3" N; Lon.: 83° 45' 29.8" E; Alt.: 89 m amsl.

Geographical position

Terai.

Administrative feature

WDR; Nawalparasi district; Jahada VDC; Ward no. 6; Dhanewa.

(Current: Bardaghat Municipality; Ward no. 13)

Boundary

Core area: Natural embankment in all directions.

Basin Area: Agricultural land and settlement in east and west; Agriticultural land in south; Gravel road and settlement in north.

Management Responsibility

Government.

Wetlands type

Man-made and aquaculture.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 37° C (Jun/Jul). Avg. Min.: 5° C (Dec); Avg Rainfall: 2145 mm per yr.

Area

Core area: About 1 ha; Avg. Length: 90 m; Avg. Width: 65 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: 2.5 – 1 m; Basin Area: 10 ha.

Water Volume

Estimated volume in peak period: 15,000 m<sup>3</sup>; Dry period: 5,000 m<sup>3</sup>; Inlet: None. Outlet: none.

Water quality

Physicochemical parameter: Temp.: 18° C; pH: Slightly acidic; Transparency: 0.5 m

Soil feature

Grey/dark color; Clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

*Eichhornia crassipes* (LN: Jal kumbhi; EN: Water hyacinth), *Nelumbo nucifera* (LN: Kamal; EN: Lotus).

Major plants in basin

*Ageratum conyzoides* (LN: Gandhe; HT: Hr; LU: None); *Mangifera indica* (LN: Aanp; HT: Tr; LU: Fruit); *Ficus religiosa* (LN: Peepal; HT: Tr; LU: Religious Tr); *Cajanus cajan* (LN: Rahar; HT: Sr; LU: Pulses); *Bambusa* spp. (LN: Baans; HT: Herb; LU: Handicraft); *Musa* spp. (LN: Kera; HT: Herb; LU: Fruit); *Psidium guajava* (LN: Amba; HT: Tree; LU: Fruit); *Cyperus* spp. (LN: ...; HT: Hr; LU: Fd); *Solanum* spp. (LN: ...; HT: Hr; LU: Fd); *Centella asiatica* (LN: Ghodtapre; HT: Hr; LU: Medicine).

Fish

*Syprinus carpio* (LN: Common carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver carp; LU: Meat);

Herpetofauna	<i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Puntius chola</i> (LN: Sidhra; LU: Meat); ... (LN: Bhotee; LU: Meat). ... (LN: Kachhuwa); <i>Ptyas mucosus</i> (LN: Dhaman); <i>Xenochrophis piscator</i> (LN: Pani saap/pankhedra); <i>Naja naja</i> (LN: Goman); <i>Bangarus fasciatus</i> (LN: Krait).
Birds	<i>Nettapus coromandelianus</i> (LN: Tel haans); <i>Milvus migrans</i> (LN: Kalo chil; EN: Kite); <i>Gyps bengalensis</i> (LN: Giddha; EN: vulture); <i>Acridotheres tristis</i> (LN: Dangre); <i>Acridotheres</i> spp. (LN: Mynah); <i>Corvus splendens</i> (LN: Kaag); <i>Streptopelia decaocto</i> (LN: Dhukur; EN: Dove); <i>Dicrurus macrocercus</i> (LN: chibe; EN: Black drongo); <i>Psitta chryasetos</i> (LN: Suga; EN: Parrot).
Mammals	<i>Canis aureus</i> (LN: Syal; EN: Jackle); <i>Macaca mulatta</i> (LN: Baandar; EN: Monkey).
Invasive alien species	<i>Eichhornea crassipes</i> .
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Pokhari tole; 100 m from lake; Main Trail: Gandaki Nepal Canal Hulaki Road, 200 m from lake.
Land use	Agricultural land (85%); Wetlands (3%); Settlement (7%); Others (5%).
Demography	Population: 110; Male: 60; Female: 50; HHs: 20; Ethnicity: Brahmin/Chhetri (100%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About 60 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Famer managed small canal.
Cultural record	None.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Fish supply; Water for livestock.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
None-structural management	Volunteer restriction for any pollution.
Economic incentives	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No tourism potential.

### G. Lake condition

Degrading.

## 6. Hadahiya Tal

Code: P5-D6-006

Toposheet no: 099 - 13

Date of inventory: February, 2014

Compiler's name: Aman

Dangaura, Pradeep Raj Joshi and  
Prakash Sigdel.



### A. General Feature

Conservation status	None.
Geographical coordination	Lat.: 27° 34' 54.3" N; Lon.: 83° 37' 03.1" E; Alt.: 105 masl.
Geographical position	Terai.
Administrative feature	WDR; Nawalparasi district; Amraud VDC; Ward no. 9; Parsawal. (Current: Sunwal Municipality; Ward no. 10)
Boundary	<u>Core area</u> : Impoundment in all directions. <u>Basin Area</u> : Settlement in east; Forest in north and west; Agricultural land/forest in south.
Management Responsibility	Community (Hadahiya Mai Ban Upabhokta Samuha).
Wetlands type	Man-made and Aquaculture.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 37° C (Jun/Jul). <u>Avg. Min.</u> : 5° C (Dec); Avg Rainfall: 2145 mm per yr.
Area	<u>Core area</u> : 1.3 ha; Avg. Length: 120 m; Avg. Width: 110 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 2.5 - 0.5 m; <u>Basin Area</u> : 6 ha.
Water Volume	Peak Period: 35,000 m <sup>3</sup> ; Dry period: 7,000 m <sup>3</sup> ; Inlet: None. Outlet: none.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16° C; pH: Slightly acidic; Transparency: 0.3 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area</u> : None.
Major plants in basin	<i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm, Ful); <i>Terminalia alata</i> (LN: Saaj; HT: Tr; LU: Tm/Ful).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat).
Herpetofauna	<i>Varanus flavescens</i> (LN: Sungohoro); <i>Ptyas mucosus</i> (LN: (LN: Dhaman); <i>Xenochrophis piscator</i> (LN: Pani saap/pankhedra).



Birds	<i>Acridotheres tristis</i> (LN: Mynah); <i>Corvus splendens</i> (LN: Kaag); <i>Streptopelia spp.</i> (LN: Dhukur; EN: Dove); <i>Psitta chryasetos</i> (LN: suga; EN: Parrot); <i>Dinopium shorii</i> (LN: Kathfor; EN: Woodpecker).
Mammals	<i>Canis aureus</i> (LN: Syal); ... (LN: Kharayo); <i>Sus scrofa</i> (LN: Bandel).
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Parsawal; 200 m from lake; Main Trail: Dariya - Hulaki Road, 50 m).
Land use	Agricultural land (10%); Forest (83%); Wetlands (3%); Settlement (1%); Others (3%).
Demography	Population: 25; Male: 11; Female: 14; HHs: 4; Ethnicity: Harjan (25%); Tharu (75%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About 15 no.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Fishery; Irrigation (water drained out from pumpset).
Cultural services	Religious; Local fair during Ramnawami.

### **E. Restoration/Management**

Structural management	None.
None-structural management	None.
Economic incentives	None.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

Religious visitors during festivals; No hotels; No tourism potential.

### **G. Lake condition**

Degrading.

## 7. Java Pokhari

Code: P5-D6-007

Toposheet no: 105 – 02

Date of inventory: February, 2014

Compiler's name: Aman Dangaura, Pradeep Raj Joshi and Prakash Sigdel



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27° 32' 39.9" N; Lon.: 83° 42' 51.4" E; Alt.: 92 m amsl.

Geographical position

Terai.

Administrative feature

WDR; Nawalparasi district; Manari VDC; Ward no. 7; Java.

(Current: Sarawal Rural Municipality; Ward no. 2)

Boundary

Core area: Forest in east, west and south; Grassland in north.

Basin Area: Agricultural land in all directions.

Management Responsibility

Janajagriti Mahila Samuha, Pashupati Mahila Purus Samuha.

Wetlands type

Man-made; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 37° C (Jun/Jul). Avg. Min.: 5° C (Dec); Avg Rainfall: 2145 mm per yr.

Area

Core area: 1.5 ha; Avg. Length: 150 m; Avg. Width: 100 m; Avg. depth: 2 m; Max - Min Surface Water Level: 3 – 1.5 m; Basin Area: 20 ha.

Water Volume

Estimated volume in peak period: 45,000 m<sup>3</sup>; Dry period: 20,000 m<sup>3</sup>; Inlet: None. Outlet: small drainage in east for irrigation.

Water quality

Physicochemical parameter: Temp.: 18° C; pH: Slightly acidic; Transparency 0.3 m.

Soil feature

Grey/dark color; Clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

Core area: *Nelumbo nucifera* (LN: Kamal; HT: FF; LU: None); *Ipomea carnea* (LN: Besharam; HT: Em; LU: None); *Oryza rufipogon* (LN: Jungali Dhan/ Tina; EN: Wild rice; HT: Em).

Major plants in basin

*Clerodendron viscosum* (LN: Bhand; HT: ...; LU: ...); *Oxalis corniculata* (LN: Chari amilo; HT: Hr; LU: Med); ... (LN: Kol briksha; HT: Tr; LU: Med, Ful); ... (LN: Sagun; HT: Tr; LU: Fd, Ful); *Artocarpus heterophyllus* (LN: Katahar; HT: Tr; LU: Fruit); *Ageratum conyzoides* (LN: Gandhe; HT: Hr; LU: None); *Adina cardifolia* (LN: Karma; HT: Tr; LU: Ful, Fd); *Mangifera indica* (LN: Aanp; HT: Tr; LU: Fruit); *Ficus religiosa* (LN: Peepal; HT: Tr; LU: Rel); ... (LN: Pakad; HT: ...; LU:).

Fish

... (LN: Mahur; LU: Meat); *Clarias batrachus* (LN: Mangur; LU: Meat); ... (LN: Harahi; LU: Meat); *Oxygarter bacaila* (LN: Charangi; LU: Meat); ... (LN: Chuchhe; LU: Meat).

## 7. Java Pokhari

Code: P5-D6-007

Toposheet no: 105 – 02

Date of inventory: February, 2014

Compiler's name: Aman Dangaura, Pradeep Raj Joshi and Prakash Sigdel



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27° 32' 39.9" N; Lon.: 83° 42' 51.4" E; Alt.: 92 m amsl.

Geographical position

Terai.

Administrative feature

WDR; Nawalparasi district; Manari VDC; Ward no. 7; Java.

(Current: Sarawal Rural Municipality; Ward no. 2)

Boundary

Core area: Forest in east, west and south; Grassland in north.

Basin Area: Agricultural land in all directions.

Management Responsibility

Janajagriti Mahila Samuha, Pashupati Mahila Purus Samuha.

Wetlands type

Man-made; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 37° C (Jun/Jul). Avg. Min.: 5° C (Dec); Avg Rainfall: 2145 mm per yr.

Area

Core area: 1.5 ha; Avg. Length: 150 m; Avg. Width: 100 m; Avg. depth: 2 m; Max - Min Surface Water Level: 3 – 1.5 m; Basin Area: 20 ha.

Water Volume

Estimated volume in peak period: 45,000 m<sup>3</sup>; Dry period: 20,000 m<sup>3</sup>; Inlet: None. Outlet: small drainage in east for irrigation.

Water quality

Physicochemical parameter: Temp.: 18° C; pH: Slightly acidic; Transparency 0.3 m.

Soil feature

Grey/dark color; Clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

Core area: *Nelumbo nucifera* (LN: Kamal; HT: FF; LU: None); *Ipomea carnea* (LN: Besharam; HT: Em; LU: None); *Oryza rufipogon* (LN: Jungali Dhan/ Tina; EN: Wild rice; HT: Em).

Major plants in basin

*Clerodendron viscosum* (LN: Bhand; HT: ...; LU: ...); *Oxalis corniculata* (LN: Chari amilo; HT: Hr; LU: Med); ... (LN: Kol briksha; HT: Tr; LU: Med, Ful); ... (LN: Sagun; HT: Tr; LU: Fd, Ful); *Artocarpus heterophyllus* (LN: Katahar; HT: Tr; LU: Fruit); *Ageratum conyzoides* (LN: Gandhe; HT: Hr; LU: None); *Adina cardifolia* (LN: Karma; HT: Tr; LU: Ful, Fd); *Mangifera indica* (LN: Aanp; HT: Tr; LU: Fruit); *Ficus religiosa* (LN: Peepal; HT: Tr; LU: Rel); ... (LN: Pakad; HT: ...; LU:).

Fish

... (LN: Mahur; LU: Meat); *Clarias batrachus* (LN: Mangur; LU: Meat); ... (LN: Harahi; LU: Meat); *Oxygarter bacaila* (LN: Charangi; LU: Meat); ... (LN: Chuchhe; LU: Meat).

## 8. Kamal Pokhari

Code: P5-D6-008

Toposheet no: 105 – 02

Date of inventory: February, 2014

Compiler's name: Aman

Dangaura, Pradeep Raj Joshi and  
Prakash Sigdel.



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27° 33' 01.3" N; Lon.: 83° 43' 34.5" E; Alt.: 103 masl.

Geographical position

Terai.

Administrative feature

WDR; Nawalparasi district; Manari VDC; Ward no. 8; Attrahati.  
(Current: Sarawal Rural Municipality; Ward no. 2)

Boundary

Core area: Natural embankment in all directions.

Management Responsibility

Shivalaya Temple Committee.

Wetlands type

Man-made and religious.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 37° C (Jun/Jul). Avg. Min.: 5° C (Dec); Avg  
Rainfall: 2145 mm per yr.

Area

Core area: About 1 ha; Avg. Length: 100 m; Avg. Width: 80  
m; Avg. Depth: 2.5; Max - Min Surface Water Level: 5 – 1.5;  
Basin Area: 5 ha.

Water Volume

Peak Period: 40,000 m<sup>3</sup>; Dry period: 10,000 m<sup>3</sup>; Inlet: None.  
Outlet: Small drainage in east.

Water quality

Physicochemical parameter: Temp.: 17° C; pH: Slightly acidic;  
Transparency: 0.5 m.

Soil feature

Grey/dark color; Clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

Core area: *Nelumbo nucifera* (LN: Kamal; HT: Ff; LU: None);  
*Oryza rufipogon* (LN: Jungali Dhan/ Tina; EN: Wild rice; HT:  
Em); *Eichhornea crassipes* (LN: Jalkhumbi; EN: Water  
hyacinth; HT: Ff; LU: None).

Major plants in basin

*Aegle marmelos* (LN: Bel; HT: Tr; LU: Fruit/ Religious tree);  
*Oxalis corniculata* (LN: Chari amilo; HT: Hr; LU: Med);  
*Dalbergia sisso* (LN: Sisau; HT: Tr; LU: Tm, Ful); *Mangifera  
indica* (LN: Aanp; HT: Tr; LU: Fruit); *Ficus religiosa* (LN:  
Peepal; HT: Tr; LU: Religious Tr).

Fish

*Heteropneustes fossilis* (LN: Singi; LU: None); ... (LN: Kothiya;  
LU: None); ... (LN: Garahi; LU: None); ... (LN: Kothri; LU:  
None); ... (LN: Sauraha; LU: None); ... (LN: Lal Tika; LU:  
None).

Herpetofauna	<i>Xenochrophis piscator</i> (LN: Pani saap/pankhedra); <i>Rana</i> spp. (LN: Bhyagutta).
Birds	<i>Nettapus coromandelianus</i> (EN: Cotton Pygmy Goose; LN: Hari haans); <i>Grus antigone</i> (LN: Saras; EN: Saras crane).
Mammals	<i>Canis aureus</i> (LN: Syal; EN: Jackal); <i>Felis chaus</i> (LN: Jungali biralo; EN: Wild cat).
Invasive alien species	<i>Eichhornea crassipes</i> .
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Attrahati; 50 m from lake; Main Trail: Basa Basahi - Pathkhauli Road.; 400 m from lake.
Land use	Agricultural land (90%); Wetlands (5%); Settlement (3%); Others (2%).
Demography	Population: 700; Male: 340; Female: 360; HHs: 115; Ethnicity: Brahmin/Chhetri (3%); Janajati (95%); Dalit (1%); Others (1%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About 250 No.
Traditional production system	Traditional paddy cultivation at basin.
Traditional water use practices	Water used for religious bathing purposes.
Cultural record	period.

### D. Ecosystem Goods/Services

Provisional services	Fishery; Domestic water supply.
Cultural services	Religious bathing at festival <i>Shivaratri</i> .

### E. Restoration/Management

Structural management	Embankment construction.
None-structural management	Informal Shivalaya temple in west (Belived to be the oldest temple of Nawalparasi district).
Genesis/origin of lake	Temple built in 1827 B.S.; Lake built during the same rules for the restriction of any pollutions.
Economic incentives	Financial inputs from VDC and local people in organizing local festivals.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

<b>G. Lake condition</b>	No tourism potential.
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Good.

## 9. Loharauli Pokhara

Code: P5-D6-009

Toposheet no: 105 - 02

Date of inventory: February, 2014

Compiler's name: Aman

Dangaura, Pradeep Raj Joshi and Prakash Sigdel.



### A. General Feature

Conservation status	None
Geographical coordination	Lat.: 27° 29' 16.4" N; Lon.: 83° 40' 10.4" E; Alt.: 98 masl.
Geographical position	Terai.
Administrative feature	WDR; Nawalparasi district; Pali VDC; Ward no. 5; Loharauli. (Current: Palhi Nandan Rural Municipality; Ward no. 4)
Boundary	<u>Core area</u> : Natural embankment in all directions. <u>Basin Area</u> : Temple in west; Foot trail in east; School in south; Agricultural Land in north.
Management Responsibility	Pali VDC.
Wetlands type	Man-made and Aquaculture.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 37° C (Jun/Jul). <u>Avg. Min.</u> : 5° C (Dec); Avg Rainfall: 2145 mm per yr.
Area	<u>Core area</u> : 1.5 ha; Avg. Length: 120 m; Avg. Width: 120 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: 4 - 0.5 m; <u>Basin Area</u> : 20 ha.
Water Volume	estimated volume in peak period: 60,000 m <sup>3</sup> ; Dry period: 7,000 m <sup>3</sup> ; Inlet: None. Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16° C; pH: Slightly acidic; Transparency: 0.6 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	None.
Major plants in basin	<i>Dalbergia sisso</i> (LN: Sisau; HT: Tr; LU: Tm, Ful); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fruit); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Religious Tr).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rohu; LU: Meat).
Herpetofauna	<i>Xenochrophis piscator</i> (LN: Pani saap/pankhedra); <i>Rana</i> spp. (LN: Bhyagutta).

Birds *Acridotheres tristis* (LN: Mynah); *Corvus splendens* (LN: Kaag); *Streptopelia spp.* (LN: Dhukur; EN: Dove); *Psitta chryasetos* (LN: Suga; EN: Parrot).

Mammals None.

Invasive alien species None.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Loharauli; 250 m from lake; Main Trail: Germi– Parasi road.

Land use Agricultural land (75%); Wetlands (5%); Settlement (10%); Others (10%).

Demography Population: 120; Male: 55; Female: 65; HHs: 15; Ethnicity: Muslim (80%); Others (Patanuwa, Ahir, Kewat; 20%); Major Religion: Muslim.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin >60.

Traditional production system Traditional paddy cultivation.

Traditional water use practices Farmer managed small canal.

Cultural record None

Genesis/origin of lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Fish supply; Water for livestock.

Cultural services *Teras Mela* in the month of Falgun (Shivaratri).

### **E. Restoration/Management**

Structural management None.

None-structural management None.

Economic incentives None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Good.

## 10. Panai Pokhara

Code: P5-D6-010

Toposheet no: 105 – 03

Date of inventory: February, 2014

Compiler's name: Aman

Dangaura, Pradeep Raj Joshi and

Prakash Sigdel



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 29' 03.6" N; <u>Lon.</u> : 83° 46' 36.6" E; <u>Alt.</u> : 96 masl.
Geographical position	Terai.
Administrative feature	WDR; Nawalparasi district; Jamuniya VDC; Ward no. 1; Panai. (Current: Bardaghat Municipality; Ward no. 13)
Boundary	<u>Core area</u> : Natural embankment in all directions. <u>Basin Area</u> : Agricultural land in all directions.
Management Responsibility	Government.
Wetlands type	Man-made and aquaculture.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 37° C (Jun/Jul). <u>Avg. Min.</u> : 5° C (Dec); Avg Rainfall: 2145 mm per yr.
Area	<u>Core area</u> : 1.5 ha; Avg. Length: 125 m; Avg. Width: 125 m; Avg. Depth: 1.5; Max - Min Surface Water Level: 2.5 – 1 m; <u>Basin Area</u> : 3 ha.
Water Volume	Estimated volume in peak period: 40,000 m <sup>3</sup> ; Dry period: 15,000 m <sup>3</sup> ; Inlet: none. Outlet: none.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16° C; pH: Slightly acidic; Transparency: 0.6 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<i>Eichhornea crassipes</i> (LN: Jalkhumbi; HT: Ff; LU: None); <i>Nelumbo nucifera</i> (LN: Kamal; HT: FF; LU: None).
Major plants in basin	<i>Dalbergia sisso</i> (LN: Sisau; HT: Tr; LU: Tm, Ful); <i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: Tm, Ful); <i>Achyranthes aspera</i> (LN: Datiwan; HT: Sh; LU: Med).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat).
Herpetofauna	<i>Xenochrophis piscator</i> (LN: Pani saap/pankhedra); <i>Rana</i> spp. (LN: Bhyagutta).



Birds *Egretta garzetta* (LN: Sano bakulla); *Gyps bengalensis* (LN: Giddha; EN: vulture); *Acridotheres tristis* (LN: Dangre); *Acridotheres* spp. (LN: Mynah); *Psitta chryasetos* (LN: Suga; EN: Parrot).

Mammals *Canis aureus* (LN: Syal); *Sus scrofa* (LN: Bandel).

Invasive alien species *Eichhornea crassipes*.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Panai; 250 m from lake; Main Trail: Bardghat – Gopigunj; 1 km fom lake.

Land use Agricultural land (75%); Wetlands (8%); Settlement (12%); Others (5%).

Demography Population: 645; Male: 317; Female: 328; HHs: 130; Ethnicity: Janajati (96%); Dalit (4%); Major Religion: Hindu.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin About 400 no.

Traditional production system Traditional paddy cultivation.

Traditional water use practices Farmer managed local canal.

Cultural record None.

Genesis/origin of lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Fish supply; Water for livestock.

Cultural services None.

### **E. Restoration/Management**

Structural management Embanckment construction long back.

None-structural management None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degrading.

## 11. Pokhara (Jeetpur)

Code: P5-D6-011

Toposheet no: 105 - 02

Date of inventory: February, 2014

Compiler's name: Aman

Dangaura, Pradeep Raj Joshi and

Prakash Sigdel



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27° 30' 55.3" N; Lon.: 83° 39' 39.5" E; Alt.: 98 masl.

Geographical position

Terai.

Administrative feature

WDR; Nawalparasi district; Ramgram NP; Ward no. 4; Jeetpur.  
(Current: Ramgram Municipality; Ward no. 9)

Boundary

Core area: Natural embankment in all directions.

Management Responsibility

Pali Multiple College.

Wetlands type

Man-made and Aquaculture.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 37° C (Jun/Jul). Avg. Min.: 5° C (Dec); Avg  
Rainfall: 2145 mm per yr.

Area

Core area: 2 ha; Avg. Length: 225 m; Avg. Width: 85 m; Avg.  
Depth: 1.5 m; Max - Min Surface Water Level: 2.5 - 1 m;  
Basin Area: 10 ha.

Water Volume

Estimated volume in peak period: 50,000 m<sup>3</sup>; Dry period:  
20,000 m<sup>3</sup>; Inlet: None. Outlet: none.

Water quality

Physicochemical parameter: Temp.: 19° C; pH: Slightly acidic;  
Transparency: 0.3 m.

Soil feature

Grey/dark color; Clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

Core Area: None.

Major plants in basin

*Dalbergia sissoo* (LN: Sisau; HT: Tr; LU: Ful); *Centella asiatica*  
(LN: Ghodtapre; HT: Hr; LU: Med); *Cynodon dactylon* (LN:  
Dubo; HT: Hr; LU: Fd).

Fish

*Syprinus carpio* (LN: Common carp; LU: Meat); *LU: Meat*;  
*Hypophthalmichthys molitrix* (LN: Silver carp; LU: Meat);  
*Ctenopharyngodon idella* (LN: Grass carp; LU: Meat); *Labeo*  
*rohita* (LN: Rahu; LU: Meat).

Herpetofauna

*Xenochrophis piscator* (LN: Pani saap/pankhedra); *Rana* spp.  
(LN: Bhyagutta).

Birds *Acridotheres tristis* (LN: Mynah); *Corvus splendens* (LN: Kaag); *Streptopelia spp.* (LN: Dhukur; EN: Dove); *Psitta chryasetos* (LN: suga; EN: Parrot).

Mammals None.

Invasive alien species None.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Jeetpur (700m); Main Trail: Germi– Parasi road; 500 m from lake.

Land use Agricultural land (95%); Wetlands (5%).

Demography No settlements at basin.

Major Religion Not applicable.

Major dialect Not applicable.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin No livestock at basin.

Traditional production system Traditional paddy cultivation.

Traditional water use practices Community managed small *kulo*.

Cultural record None.

Genesis/origin of lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Fish supply.

Cultural services None.

### **E. Restoration/Management**

Structural management None.

None-structural management None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Good.

## 12. Pokhara (Kushma)

Code: P5-D6-012

Toposheet no: 105 - 02

Date of inventory: February, 2014

Compiler's name: Aman

Dangaura, Pradeep Raj Joshi and

Prakash Sigdel.



### A. General Feature

Conservation status	None.
Geographical coordination	Lat.: 27° 27' 57.3" N; Lon.: 83° 41' 14.7" E; Alt.: 94 m amsl.
Geographical position	Terai.
Administrative feature	WDR; Nawalparasi district; Kushma VDC; Ward no. 7; Kushma. (Current: Palhi Nandan Rural Municipality; Ward no. 3)
Boundary	<u>Core area</u> : Natural embankment in all directions. <u>Basin Area</u> : Agricultural land in east and south; Settlement in north and west.
Management Responsibility	VDC.
Wetlands type	Man-made; Aquaculture.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.:</u> 37° C (Jun/Jul). <u>Avg. Min.:</u> 5° C (Dec); Avg Rainfall: 2145 mm per yr.
Area	<u>Core area</u> : About 1 ha; Avg. Length: 100 m; Avg. Width: 90 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: 4 - 1.5 m; <u>Basin Area</u> : 10 ha.
Water Volume	Estimated volume in peak period: 35,000 m <sup>3</sup> ; Dry period: 15,000 m <sup>3</sup> ; Inlet: None. Outlet: none.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16° C; pH: Slightly acidic; Transparency: 0.6 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<i>Pistia stratiotes</i> (LN: Jalkumbhi HT: Ff; LU: None); <i>Eichornnea crassipes</i> (LN: Jalkumbhi; HT: Ff; LU: None).
Major plants in basin	<i>Datura stramonium</i> (LN: Dhaturu; HT: Sr; LU: Med), <i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Ful); <i>Phragmites karka</i> (LN: Narkat; HT: Sh); <i>Bambusa</i> spp. (LN: Bans; HT: Hr; LU: Handicraft, Fd); <i>Musa</i> spp. (LN: Kera; HT: Hr; LU: Fruit).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat).

Herpetofauna	<i>Xenochrophis piscator</i> (LN: Pani saap/pankhedra); <i>Rana</i> spp. (LN: Bhyagutta).
Birds	<i>Acridotheres tristis</i> (LN: Mynah); <i>Corvus splendens</i> (LN: Kaag); <i>Streptopelia</i> spp. (LN: Dhukur; EN: Dove); <i>Psitta chryasetos</i> (LN: suga; EN: Parrot).
Mammals	None.
Invasive alien species	<i>Pistia stratiotes</i> , <i>Eichornia crassipes</i> .
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Kushma; 10 m from lake; Main Trail: Sunwal – Maheshpur Road; 200 m from lake.
Land use	Agricultural land (70%); Wetlands (5%); Settlement (20%); Others (5%).
Demography	Population: 150; Male: 70; Female: 80; HHs: 30; Ethnicity: Muslim (50%); Lunia (50%); Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About 70 no.
Traditional production system	Traditional paddy cultivation
Traditional water use practices	Community managed small <i>kulo</i> .
Cultural record	None.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Fish supply; Irrigation (water drained out from pumpset).
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Good.

### 13. Pokhara ((Patkhauli)

Code: P5-D6-013

Toposheet no: 105 – 02

Date of inventory: February, 2014

Compiler's name: Aman Dangaura,  
Pradeep Raj Joshi and Prakash  
Sigdel.



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 33' 21" N; <u>Lon.</u> : 83° 43' 52" E; <u>Alt.</u> : 107 masl.
Geographical position	Terai.
Administrative feature	WDR; Nawalparasi district; Tilakpur VDC; Ward no. 7; Patkhauli.  (Current: Sarawal Rural Municipality; Ward no. 2)
Boundary	<u>Core area</u> : Stone wall in all directions.  <u>Basin Area</u> : Agricultural land in east and north; Settlement in west and south.
Management Responsibility	Ward Committee.
Wetlands type	Man-made; Aquaculture.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 37° C (Jun/Jul). <u>Avg. Min.</u> : 5° C (Dec); Avg Rainfall: 2145 mm per yr.
Area	<u>Core area</u> : 1 ha; Avg. Length: 100 m; Avg. Width: 100 m; Avg. Depth: 0.5 m; Max - Min Surface Water Level: 1 – 0.5 m; <u>Basin Area</u> : 10 ha.
Water Volume	Estimated volume in peak period: 10,000 m <sup>3</sup> ; Dry period: 5,000 m <sup>3</sup> ; Inlet: Kula. Outlet: none.
Water quality	<u>Physicochemical parameter</u> : Temp.: 17° C; pH: Slightly acidic; Transparency: 0.6 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Aegle marmelos</i> (LN: Bel; HT: Tr; LU: Fruit); <i>Dalbergia sisso</i> (LN: Sisau; HT: Tr; LU: Tm, Ful); <i>Mangifera indica</i> (LN: Aap; HT: Tr; LU: Fruit); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Religious Tr); <i>Citrus lemon</i> (LN: Chuk; HT: Tr; LU: Fruit); <i>Artocarpus heterophyllus</i> (LN: Katahar; HT: Tr; LU: Fruit); <i>Musa</i> spp. (LN: Kera; HT: Hr; LU: Fruit).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo</i>

	<i>rohita</i> (LN: Rahu; LU: Meat); <i>Puntius chola</i> (LN: Sidra; LU: Meat).
Herpetofauna	<i>Xenochrophis piscator</i> (LN: Pani Sarpa); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman).
Birds	<i>Acridotheres tristis</i> (LN: Mynah); <i>Corvus splendens</i> (LN: Kaag); <i>Streptopelia spp.</i> (LN: Dhukur; EN: Dove); <i>Psitta chryasetos</i> (LN: suga; EN: Parrot).
Mammals	None.
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Pokhara tole; 20 m from lake; Main Trail: Piprahiya – Basahi Road; 500 m from lake.
Land use	Agricultural land (90%); Wetlands (5%); Settlement (3%); Others (2%).
Demography	Population: 95; Male: 45; Female: 50; HHs: 15; Ethnicity: Janajati (Tharu; 100%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	> 80 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmer managed <i>kulo</i> at basin.
Cultural record	None.
Genesis/origin of lake	A small ditch was later converted through construction to lake.

### D. Ecosystem Goods/Services

Provisional services	Domestic supply; Fishery.; Water for livestock.
Cultural services	None.

### E. Restoration/Management

Structural management	Built up stone wall.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No tourism potential.

### G. Lake condition

Good.

## 14. Pokhari (Pali)

Code: P5-D6-014

Toposheet no: 105 - 02

Date of inventory: February, 2014

Compiler's name: Aman

Dangaura, Pradeep Raj Joshi and

Prakash Sigdel



### A. General Feature

Conservation status	None
Geographical coordination	Lat.: 27° 28' 18.8" N; Lon.: 83° 39' 57.4" E; Alt.: 84 masl.
Geographical position	Terai.
Administrative feature	WDR; Nawalparasi district; Pali VDC; Ward no. 2; Pali. (Current: Pali Nandal Rural Municipality; Ward no. 4)
Boundary	<u>Core area</u> : Huts in west; Stone masonry wall in east and south; Natural embankment in north. <u>Basin Area</u> : Road in west; Agricultural land in north, east and south.
Management Responsibility	VDC.
Wetlands type	Man-made; Aquaculture.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.:</u> 37° C (Jun/Jul). <u>Avg. Min.:</u> 5° C (Dec); Avg Rainfall: 2145 mm per yr.
Area	<u>Core area:</u> 1.7 ha; Avg. Length 150 m; Avg. Width 125 m; Avg. Depth: 1.5; Max - Min Surface Water Level: 3.5 - 1 m; <u>Basin Area:</u> 7 ha.
Water Volume	Estimated volume in peak period: 65,000 m <sup>3</sup> ; Dry period: 20,000 m <sup>3</sup> ; Inlet: None. Outlet: none.
Water quality	<u>Physicochemical parameter:</u> Temp.: 16° C; pH: Slightly acidic; Transparency: 0.5 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core Area:</u> None.
Major plants in basin	<i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Ful). <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fruit).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat); <i>Aristichthys nobilis</i> (LN: Bighead; LU: Meat).
Herpetofauna	<i>Xenochrophis piscator</i> (LN: Pani Sarpa); <i>Ptyas mucosa</i> (LN: Dhaman).



Birds *Acridotheres tristis* (LN: Mynah); *Corvus splendens* (LN: Kaag); *Streptopelia spp.* (LN: Dhukur; EN: Dove); *Psitta chryasetos* (LN: suga; EN: Parrot).

Mammals None.

Invasive alien species None.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Pali; 20 m from lake; Main Trail: Parasi – Germa Road; 2 km from lake.

Land use Agricultural land (80%); Wetlands (10%) settlement (10%).

Demography Population: 150; Male: 75; Female: 75 HH: 30; Ethnicity: Janajati (80%); Brahmin (5%); Others (15%); Major Religion: Hindu.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin About 50 no.

Traditional production system Traditional paddy cultivation at basin.

Traditional water use practices community managed small *kulo* at basin.

Cultural record None.

Genesis/origin of lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Fish supply; Water for livestock

Cultural services None.

### **E. Restoration/Management**

Structural management Stone dam in east and south.

None-structural management None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Good.

## 15. Pokhari (Devgaun)

Code: P5-D6-015

Toposheet no: 105 - 02

Date of inventory: February, 2014

Compiler's name: Aman Dangaura,  
Pradeep Raj Joshi and Prakash  
Sigdel



### A. General Feature

Conservation status	None.
Geographical coordination	Lat.: 27° 30' 24.2" N; Lon.: 83° 42' 06.7" E; Alt.: 88 masl.
Geographical position	Terai.
Administrative feature	WDR; Nawalparasi district; Devgaun VDC; Ward no. 6; Devgaun. (Current: Ramgram Municipality; Ward no. 17)
Boundary	<u>Core area</u> : Natural embankment in all directions. <u>Basin Area</u> : Settlement in east, Agricultural land in north, west and south.
Management Responsibility	VDC.
Wetlands type	Man-made; Aquaculture.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.:</u> 37° C (Jun/Jul). <u>Avg. Min.:</u> 5° C (Dec); Avg Rainfall: 2145 mm per yr.
Area	<u>Core area</u> : 0.5 ha; Avg. Length: 100 m; Avg. Width: 60 m; Avg. depth; 1 m; Max - Min Surface Water Level: 2.5 – 0.5 m; <u>Basin Area</u> : 10 ha.
Water Volume	Estimated in peak period: 15,000 m <sup>3</sup> ; Dry period: 3,000 m <sup>3</sup> ; Inlet: None. Outlet: none.
Water quality	<u>Physicochemical parameter</u> : Temp.: 18° C; pH: Slightly acidic; Transparency: 0.4 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<i>Eichornnea crassipes</i> (LN: Jalkhumbi; HT: Ff; LU: None); <i>Pistia stratiotes</i> (LN: Jalkumbhi HT: Ff; LU: None).
Major plants in basin	<i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Ful); <i>Musa</i> spp. (LN: Kera; HT: Hr; LU: Fruit).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat).
Herpetofauna	<i>Xenochrophis piscator</i> (LN: Pani Sarpa); <i>Ptyas mucosa</i> (LN: Dhaman).

Birds *Acridotheres tristis* (LN: Mynah); *Corvus splendens* (LN: Kaag); *Streptopelia spp.* (LN: Dhukur; EN: Dove); *Psitta chryasetos* (LN: suga; EN: Parrot).

Mammals None.

Invasive alien species *Eichorrnea crassipes*, *Pistia stratiotes*.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Devgaun; 10 m from lake; Main Trail: Patkhauli – Piparhiya trail; 600 m from lake.

Land use Agricultural land (55%); Forest (15) Wetlands (5%); Settlement (20%); Others (5%).

Demography Population: 400; Male: 260; Female: 140; HHs: 60; Ethnicity: Muslim (33%); Gupta (33%); Tharu (34%); Major Religion: Hindu.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin About 150 no.

Traditional production system Traditional paddy cultivation.

Traditional water use practices community managed small *kulo* at basin.

Cultural record None.

Genesis/origin of lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Fish supply.; Water for livestock

Cultural services None.

### **E. Restoration/Management**

Structural management None.

None-structural management None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degrading.

## 16. Pokhari Tal (Mahuwari)

Code: P5-D6-016

Toposheet no: 105 – 02

Date of inventory: February, 2014

Compiler's name: Aman

Dangaura, Pradeep Raj Joshi and

Prakash Sigdel.



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 29' 03.7" N; <u>Lon.</u> : 83° 42' 26.4" E; <u>Alt.</u> : 88 masl.
Geographical position	Terai.
Administrative feature	WDR; Nawalparasi district; Devgaun VDC; Ward no. 8; Mahuwari. (Current: Ramgram Municipality; Ward no. 17)
Boundary	<u>Core area</u> : Natural dam in all directions. <u>Basin Area</u> : Agricultural land east and south; Settlement in west and north.
Management Responsibility	Government.
Wetlands type	Man-made; Aquaculture.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 37° C (Jun/Jul). <u>Avg. Min.</u> : 5° C (Dec); Avg Rainfall: 2145 mm per yr.
Area	<u>Core area</u> : 0.5 ha; Avg. Length: 110 m; Avg. Width: 55 m; Avg. Depth: 1.5; Max - Min Surface Water Level: 4 – 1 m; <u>Basin Area</u> : 15 ha.
Water Volume	Estimated in peak period: 25,000 m <sup>3</sup> ; Dry period: 6,000 m <sup>3</sup> ; Inlet: None. Outlet: none.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16° C; pH: Slightly acidic; Transparency: 0.3 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	Excess macrophytes; Eutrophication.
Major aquatic plants	<i>Eichornia crassipes</i> (LN: Jalkhumbi; HT: Ff; LU: None); <i>Nelumbo nucifera</i> (LN: Kamal; HT: Em; LU: None); <i>Pistia stratiotes</i> (LN: Jalkumbhi HT: Ff; LU: None).
Major plants in basin	<i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: None), <i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Ful). <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fruit); <i>Musa</i> spp. (LN: Kera; HT: Hr; LU: Fruit).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat).

Herpetofauna	<i>Xenochrophis piscator</i> (LN: Pani Sarpa); <i>Ptyas mucosa</i> (LN: Dhaman).
Birds	<i>Egretta garzetta</i> (LN: Sano Bakulla), <i>Acridotheres tristis</i> (LN: Dangre); <i>Psitta chryasetos</i> (EN: Parrot)
Mammals	None.
Invasive alien species	<i>Pistia stratiotes</i> , <i>Eichhornea crassipes</i> .
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Mahuwari; 10 m from lake; Main Trail: Gandaki-Nepal Canal Road; 250 m from lake.
Land use	Agricultural land (82%); Wetlands (4%); Settlement (9%); Others (5%).
Demography	Population: 690; Male: 320; Female: 370; HHs: 150; Ethnicity: Janajati (40%) Muslim (20%) Others (40%); Major Religion: Hindu/Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	> 459 no.
Traditional production system	Traditional farming at basin.
Traditional water use practices	Community managed small <i>kulo</i> at basin.
Cultural record	None.
Genesis/origin of lake	None.

### **D. Ecosystem Goods/Services**

Provisional services	Fish supply; Fodder.
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

No tourism potential.

### **G. Lake condition**

Degrading.

## 17. Purnahawa Pokhara

Code: P5-D6-017

Toposheet no: 105 - 02

Date of inventory: February, 2014

Compiler's name: Aman Dangaura,  
Pradeep Raj Joshi and Prakash  
Sigdel



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 27°30'19.7" N; <u>Lon.</u> : 83°41'49.0" E; <u>Alt.</u> : 102 masl.
Geographical position	Terai.
Administrative feature	WDR; Nawalparasi district; Devgaun VDC; Ward no. 3; Devgaun.  (Current: Ramgram Municipality; Ward no. 17)
Boundary	<u>Core area</u> : Natural embankment in all directions. <u>Basin Area</u> : Agricultural land in north, east, east; Gravel road in south.
Management Responsibility	Community.
Wetlands type	Man-made; Aquaculture.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 37° C (Jun/Jul). <u>Avg. Min.</u> : 5° C (Dec); Avg Rainfall: 2145 mm per yr.
Area	<u>Core area</u> : 1.5 ha; Avg. Length: 160 m; Avg. Width: 80 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 2 – 0.5 m; <u>Basin Area</u> : 20 ha.
Water Volume	Estimated volume in peak period: 40,000 m <sup>3</sup> ; Dry period: 6,000 m <sup>3</sup> ; Inlet: None. Outlet: none.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16° C; pH: Slightly acidic; Transparency: 0.3 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<i>Nelumbo nucifera</i> (LN: Kamal; HT: FF; LU: None); ... (LN: Puraina; HT: FF; LU: None).
Major plants in basin	<i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fruit); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Religious Tr); <i>Aegle marmelos</i> (LN: Bel; HT: Tr; LU: Fruit); <i>Anthocephalus chinensis</i> (LN: Kadam; HT: Tr; LU: Fruit); ... (LN: Pakadi; HT: Tr; LU: ...);
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat).

Herpetofauna	<i>Xenochrophis piscator</i> (LN: Pani Sarpa); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Rana</i> spp (LN: Bhyagutta).
Birds	<i>Coconia nigra</i> (LN: Bhudifor; EN: Stork); <i>Egretta garzetta</i> (LN: Sano Bakulla); <i>Nettapus coromandelianus</i> (LN: Pani hans).
Mammals	None.
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Devgaun; 100 m from lake; Main Trail: Patkhauli – Piparhiya trail; 100 m from lake.
Land use	Agricultural land (55%); Forest (15) Wetlands (5%); Settlement (20%); Others (5%).
Demography	Population: 400; Male: 260; Female: 140; HHs: 60; Ethnicity: Muslim (33%); Gupta (33%); Tharu (34%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	> 150 no.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### **D. Ecosystem Goods/Services**

Provisional services	Fish supply; Irrigation (water drined out from pumpset).
Cultural services	None.

### **E. Restoration/Management**

Structural management	None
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degraded.

## 18. Sagada Pokhara

Code: P5-D6-018

Toposheet no: 105 - 02

Date of inventory: February, 2014

Compiler's name: Aman Dangaura,  
Pradeep Raj Joshi and Prakash  
Sigdel



### A. General Feature

Conservation status	None
Geographical coordination	Lat.: 27° 30' 30.4" N; Lon.: 83° 39' 33.9" E; Alt.: 89 masl.
Geographical position	Terai.
Administrative feature	WDR; Nawalparasi district; Majhariya VDC; Ward no. Unknown; Lalitpur. (Current: Ramgram Municipality; Ward no. 9)
Boundary	<u>Core area</u> : Natural embankment and grassland in all directions. <u>Basin Area</u> : Agricultural land in all directions.
Management Responsibility	VDC.
Wetlands type	Man-made; Aquaculture.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 37° C (Jun/Jul). <u>Avg. Min.</u> : 5° C (Dec); Avg Rainfall: 2145 mm per yr.
Area	<u>Core area</u> : 1 ha; Avg. Length: 125 m; Avg. Width: 75 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 2.5 - 0.5 m; <u>Basin Area</u> : 15 ha.
Water Volume	Estimated volume in peak period: 23,000 m <sup>3</sup> ; Dry period: 5,000 m <sup>3</sup> ; Inlet: None. Outlet: none.
Water quality	<u>Physicochemical parameter</u> : Temp.: 20° C; pH: Slightly acidic; Transparency: 15 cm.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	Exposed to dryness; excess weeds.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	Different grasses.
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat).
Herpetofauna	<i>Xenochrophis piscator</i> (LN: Pani Sarpa); <i>Ptyas mucosa</i> (LN: Dhaman).
Birds	<i>Coconia nigra</i> (LN: Bhudifor; EN: Stork); <i>Egretta garzetta</i> (LN: Sano Bakulla);



Mammals	None.
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	No settlement at basin; Main Trail: Germi– Parasi road; 500 m from lake.
Land use	Agricultural land (95%); Wetlands (5%).
Demography	No settlement at basin.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None.
Traditional production system	Traditional farming.
Traditional water use practices	Farmer managed small <i>kulo</i> at basin.
Cultural record	None.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Fish supply.
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degraded.

## 19. Sisani Pokhari

Code: P5-D6-019

Toposheet no: 105 – 03

Date of inventory: February, 2014

Compiler's name: Aman

Dangaura, Pradeep Raj Joshi and

Prakash Sigdel.



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27° 28' 36.8" N; Lon.: 83° 46' 03.6" E; Alt.: 88 masl.

Geographical position

Terai.

Administrative feature

WDR; Nawalparasi district; Jamuniya VDC; Ward no. 6; Sishaniya.

(Current: Pratappur Rural Municipality; Ward no. 1)

Boundary

Core area: Earthen dam in all directions.

Basin Area: School ground in east; Agricultural land in west; Plantation in south; School in north.

Management Responsibility

Shree Lakshmipura Lower. Secondary. School.

Wetlands type

Man-made; Aquaculture.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 37° C (Jun/Jul). Avg. Min.: 5° C (Dec); Avg Rainfall: 2145 mm per yr.

Area

Core area: 1 ha; Avg. Length: 100 m; Avg. Width: 100 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: 2.5 - 1 m; Basin Area: 10 ha.

Water Volume

Estimated volume in peak period: 25,000 m<sup>3</sup>; Dry period: 10,000 m<sup>3</sup>; Inlet: None. Outlet: none.

Water quality

Physicochemical parameter: Temp.: 16° C; pH: Slightly acidic; Transparency: 0.5 m.

Soil feature

Grey/dark color; Clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

Core area: *Eichhornea crassipes* (LN: Jalkhumbi; HT: Ff); *Pistia stratiotes* (LN: Jalkumbhi; HT: Ff) ... (LN: Pani dubo; HT: Em).

Major plants in basin

*Dalbergia sisso* (LN: Sisau; HT: Tr; LU: Tm, Ful); ... (LN: Sagun; HT: Tr; LU: Ful); *Eucalyptus citriodora* (LN: Safed; HT: Tr; LU: Tm, Ful); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Ful, Tm); *Mangifera indica* (LN: Aanp; HT: Tr; LU: Fruit);

Fish

*Syprinus carpio* (LN: Common carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver carp; LU: Meat); *Ctenopharyngodon idella* (LN: Grass carp; LU: Meat).

Herpetofauna	<i>Xenochrophis piscator</i> (LN: Pani Sarpa); <i>Rana</i> spp (LN: Bhyagutta); <i>Ptyas mucosa</i> (LN: Dhaman).
Birds	<i>Egretta garzetta</i> (LN: Bakulla); <i>Aegyptus monachus</i> (LN: Giddha; EN: vulture); <i>Acridotheres tristis</i> (LN: Dangre); <i>Psitta chryasetos</i> (LN: Suga).
Mammals	<i>Canis aureus</i> (EN: Jackal); <i>Sus scrofa</i> (EN: Wild boar).
Invasive alien species	<i>Eichhornea crassipes</i> .
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Sishaniya; 200 m from lake; Main Trail: Gandaki Nepal Canal Road; 200 m from lake.
Land use	Agricultural land (84%); Wetlands (4%); Settlement (2%); Others (10%).
Demography	Population: 85; Male: 42; Female: 43; HHs: 15; Ethnicity: Janajati (80%) other (20%); Major Religion: Hindu/Buddha.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	> 40 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmer managed <i>kulo</i> .
Cultural record	None.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Fish supply.; Water for livestock.
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Good.

## 20. Swathi Pokhari

Code: P5-D6-020

Toposheet no: 105 - 02

Date of inventory: February, 2014

Compiler's name: Aman Dangaura,  
Prakash Sigdel and Pradeep Raj  
Joshi.



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 34' 1.10"N; <u>Lon.</u> : 83° 39' 9.31"E; <u>Alt.</u> : 122 masl.
Geographical position	Terai.
Administrative feature	WDR: Nawalparasi district; Swathi VDC; Ward 8; Swathi. (Current: Sunwal Municipality; Ward no. 9)
Boundary	<u>Core area</u> : Natural embankment and foot trail in all direction.
<u>Basin Area</u> : Agricultural land in east and north; Settlement and agricultural land in west; Settlement in south.	
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 37° C (Jun/Jul). <u>Avg. Min.</u> : 5° C (Dec); Avg Rainfall: 2145 mm per yr.
Area	<u>Core area</u> : 0.5 ha; Avg. Length: 95 m; Avg. Width: 65 m; Avg. Depth: 2 m; Max - Min Surface Water Level: 2.5 - 1 m; <u>Basin Area</u> : 15 ha.
Water Volume	Estimated volume in peak period: 15,000 m <sup>3</sup> ; Dry period: 6,000 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 25° C; pH: Slightly acidic; Transparency: 15 cm.
Soil feature	Grey, Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Ipomea carnea</i> (LN: Besharam, HT: Em; LU: None).
Major plants in basin	<i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Rel); <i>Mangifera indica</i> (LN: Aap, HT: Tr, LU: Fr); <i>Azadirachta indica</i> (LN: Neem, HT: Tr, LU: Med); <i>Aegle marmelos</i> (LN: Bel; HT: Tr; LU: Fr); <i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr, LU: Tm), <i>Datura stramonium</i> (LN: Dhaturu; HT: Tr, LU: Med) ... (LN: Kabro; HT: Tr; LU: FW); <i>Phoenix sylvestris</i> (LN: Khajur; HT: Tr; LU: Fr).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Clarias</i>

Herpetofauna	<i>batrachus</i> (LN: Magur; LU: Meat); <i>Cirrihinus mrigala</i> (LN: Naini; LU: Meat).
Birds	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chhepari); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait); ... (LN: Kachhuwa).
Mammals	<i>Acridotheres tristis</i> (LN: Dangre); <i>Streptopelia decaocto</i> (LN: Dhukur; LU: Meat); <i>Corvus splendens</i> (LN: Kaag); <i>Passer domesticus</i> (LN: Bhangera; EN: Sparrow); <i>Nettapus coromandelianus</i> (LN: Pani Hans).
Invasive alien species	<i>Canis aureus</i> (LN: Syal); ... (LN: Kharayo).
Endemic plant/animal	<i>Ipomea carnea</i> .
	None.

### C. Socio-Economy at Basin

Nearby settlement	Swathi; 20 m from lake; Main Trail: Sunawal - Swathi Road; 500 m from lake.
Land use	Forestland (5%); Settlement (20%); Agricultural (70%); Wetland (5%).
Demography	Population: 600; Male: 280; Female: 320; HHs: Approx. 100; Madhesi (85%); Ethnicity: Muslim (10%); Tharu (5%). Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About 130 no.
Traditional production system	Tradition paddy cultivation.
Traditional water use practices	Community manage <i>kulo</i> at basin.
Cultural record	Temple at the shore.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Iigation; Fishery, Domestic water supply.
Cultural services	Local fair during festivals like <i>Krishna janmashthami</i> .

### E. Restoration/Management

Structural management	None.
Non-structural management	Volunteer restriction for any pollutions.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No tourism potential.

### G. Lake condition

Degrading.

## 21. Thulo Pokhari

Code: P5-D6-021

Toposheet no: 105 – 03

Date of inventory: February, 2014

Compiler's name: Aman

Dangaura, Pradeep Raj Joshi and  
Prakash Sigdel.



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 31' 48" N; <u>Lon.</u> : 83° 45' 13" E; <u>Alt.</u> : 108 masl.
Geographical position	Terai.
Administrative feature	WDR; Nawalparasi district; Panchanagar VDC; Ward no. 8; Bhagjogani. (Current: Sarawal Rural Municipality; Ward no. 3)
Boundary	<u>Core area</u> : Grassland in west and south; Foot trail in east; water canal in north. <u>Basin Area</u> : Agricultural land in all directions.
Management Responsibility	VDC.
Wetlands type	Man-made; Aquaculture.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 37° C (Jun/Jul). <u>Avg. Min.</u> : 5° C (Dec); Avg Rainfall: 2145 mm per yr.
Area	<u>Core area</u> : 1 ha; Avg. Length: 110 m; Avg. Width: 95 m; Avg. Depth: 2 m; Max - Min Surface Water Level: 4 – 1.5 m; <u>Basin Area</u> : 15 ha.
Water Volume	Estimated volume in peak period: 42,000 m <sup>3</sup> ; Dry period: 16,000 m <sup>3</sup> ; Inlet: Small seasonal stream. Outlet: none.
Water quality	<u>Physicochemical parameter</u> : Temp.: 23° C; pH: Slightly acidic; Transparency: 0.4 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<i>Ipomea carnea</i> (LN: Besharam); ... (LN: Tel chaurai); ... (LN: Gon); ... (LN: Kathara (gulgulla)).
Major plants in basin	<i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fruit); <i>Phragmites karka</i> (LN: Narkat; HT: Sh); <i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: None), <i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Ful).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat); <i>Aristichthys nobilis</i> (LN: Bighead; LU: Meat).

Herpetofauna	<i>Xenochrophis piscator</i> (LN: Pani Saap/pankhedra); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait); <i>Varanus flavescens</i> (LN: Sungohoro; EN: Golden monitor lizard); Turtles.
Birds	<i>Nettapus coromandelianus</i> (LN: Tel haans).
Mammals	... (EN: Rabbit); <i>Canis aureus</i> (EN: Jackal); <i>Sus scrofa</i> (EN: Wild boar).
Invasive alien species	<i>Ipomea carnea</i> .
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Bhagjogani; 1 km from lake; Main Trail: Bhutaha – Bhagjogani road; 3 km from lake.
Land use	Agricultural land (95%); Wetlands (5%).
Demography	Population: 650; Male: 300; Female: 350; HHs: 140; Ethnicity: Janajati (95%); Dalit (3%); Others (2%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About 300 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmer managed small canal.
Cultural record	Temple at shore.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Fish supply.
Cultural services	Recreational and educational.

### **E. Restoration/Management**

Structural management	None.
None-structural management	Volunteer restriction for any pollutions.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

No tourism potential.

### **G. Lake condition**

Good.

## Annex-47: Inventory of lakes in Pyuthan district

### 1. Bhingri Daha

Code: P5-D8-001

Toposheet no: 2882-15B

Date of inventory: April, 2015



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 28° 08'46.33"N; Lon.: 82°42'24.95"E; Alt.: 720 masl

Geographical position

Mahabharat Lekh.

Administrative feature

MWDR; Pyuthan district; Bhingri VDC-2; *Bhingri*.

(Current: Sworgadwari Municipality; Ward no. 3)

Boundary

Core Area: Forest in west; Cropland in east and south; cultivation land in south; Chakchake-Libang road in north.

Basin Area:

Dense forest in west; Kimichau-Tallo Bhingri-Gothiban road in east; Settlement of Tallo Bhingri in south; *Jari Khol*a in north.

Management RESPONSIBILITY

VDC

Wetlands type

Freshwater/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: Avg. Max: Temp.: 24° C. Avg. Min.: 14° C. Avg. Rainfall: 1300 mm/yr (DDC Profile).

Area

Core Area: 0.3 ha; Avg. Length: 50 m; Avg. Width: 40 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 2-1 m; Basin Area: 10 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: Irrigation canal.

Water quality

Physicochemical parameter: Temp: 27° C, pH: 7; Transparency: 0.4 m.

Soil feature

Grey color; Silt loam texture.

Shocks/vulnerability

None.

Major aquatic plants

None.

Major plants in basin

*Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful); *Ficus religiosa* (LN: Peepal; HT: Tr; LU: Rel).

Fish

None.

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard).

Bird

*Casmerodius albus* (EN: Great Egret, LN: Bakulla); *Chalcophaps indica* (EN: Emerald Dove; LN: Dhukur); *Lophura leucmelanos* (LN: Kaalij; EN: Kalij Pheasant).

Mammals

*Canis sp* (LN: Syal EN: Jackal); *Panthera pardus* (LN: Chitwa; EN: Leopard); *Macaca mullata* (LN: Bandar; EN: Monkey)



Invasive alien species	None.
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	<i>Bhingri Bazzar</i> ; 0.5 km from lake; Main Trail: Kimichaur-Bhingri-Gothiban road; 0.5 km from lake to the main trail.
Land use	Forest land (70%); Agriculture (10%); Settlement (16%); Wetland (4%).
Demography	Population: 708; Male: 302; Female: 406; HHs: 184; Ethnicity: Janajati 30%; Dalit 10%; Brahmin/Chhetri 50%; Others: 10%; Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>100 in no.
Traditional production system	Terrace farming (Paddy plantation).
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Irrigation; Water for livestock and biodiversity.
Cultural service	None.
<b>E. Restoration/Management</b>	
Structural management	Concrete embankments (Care Nepal).
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	No visitors; Public transportation available; Teashops in bhingribazzar; No hotels for accommodation facilities; No tourism potential.
<b>G. Lake condition</b>	Good.

## 2. Tiram Daha

Code: P5-D8-002

Toposheet no: 2782 04A

Date of inventory: April, 2015



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°59'25.62"N; Lon.:82°46'5.39"E; Alt.: 1216 masl.

Geographical position

Mahabharat Lekh.

Administrative feature

MWDR; Pyuthan district; Tiram VDC-07; *Kimichaur*.

(Current: Sarumarani Municipality; Ward no. 6)

Boundary

Core Area: Forest in all sides.

Basin Area: Kimichaur-Goddhara taril in west; Kimichau-Budhichaur trail in east; Cropland in south; Dense forest in north.

Management Responsibility

VDC.

Wetlands type

Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 24<sup>0</sup> C. Avg. Min.: 14<sup>0</sup> C. Avg. Rainfall: 1300 mm/yr (DDC Profile).

Area

Core area: 0.8ha; Avg. Length: 95 m; Avg. Width: 50 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 2.5-1 m; Basin Area: 25 ha.

Water Volume

Volume: NA; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp: 20<sup>0</sup> C, pH: 6.5; Transparency: 0.2 m.

Soil feature

Grey color; Clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

None.

Major plants in basin

*Pinusspp* (LN: Salla, HT: Tr, LU: Ful, Tm); *Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit, Ful); *Ficus religiosa* (LN: Peepal; HT: Tr; LU: Rel).

Fish

Not found in this lake.

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN; Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Naja naja* (LN: Nag, EN: Indian Cobra).

Bird

*Casmerodius albus* (LN: Bakulla; EN: Great Egret); *Chalcophaps indica* (LN: Dhukur; EN: Emerald Dove); *Lophura leucmelanos* (LN: Kaalij; EN: Kalij Pheasant).

Mammals

*Canis sp* (LN: Syal; EN: Jackal); *Panthera pardus* (LN: Chitwa; EN: Leopard); *Macaca mullata* (LN: Bandar; EN: Monkey)

Invasive alien species

None.

Endemic plant/animal

None.

### C. Socio-Economy at Basin

Nearby settlement	<i>Kimichaur</i> ; 1 km from lake; Main Trail: Devasthan-Harnak-Ghorahi; 10 km in vehicle plus 2 hrs walk from lake to the main trail.
Land use	Forest (80%); Grassland (18%); Wetland (2%).
Demography	Population: 536; Male: 221; Female: 315; HHs: 106; Ethnicity: Janajati 90%; Dalit 5%; Brahmin/Chhetri 5%; Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>100.
Traditional production system	Terrace farming; Dry crop production.
Traditional water use practices	Traditional <i>Kulo</i> ; Water coup.
Cultural record	None.
Genesis/origin of lake	Belief that one of sons of the Lord Baraha settled here and formed the lake.

### D. Ecosystem Goods/Services

Provisional services	None.
Cultural services	Aesthetic; <i>Local fair in Maghesankranti</i> .

### E. Restoration/Management

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

>700 visitors during festival; Local teashops in *Kimichaur*; Few hotels in *Chakchake* (about 10 km from lake in vehicle plus 4 hrs. walk; No tourism potential.

### G. Lake condition

Good.

## Annex-48: Inventory of lakes in Rolpa district

### 1. Biwang Daha

Code: P5-D9-001

Toposheet no: 2882-12B

Date of inventory: April, 2015



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.:</u> 28°24'19.89" N; <u>Lon.:</u> 82°53'19.29" E; Alt.: 2351 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	MWDR; Rolpa district; Gaam VDC-6; Bibankharka. (Current: Sunchhahari Rural Municipality; Ward no. 2)
Boundary	<u>Core Area:</u> <i>Bibankharka</i> and cropland in west; Garjaban and Pine forest in east; Jhimma-Garjaban-Bibankharka-Chalban trail in south; Pine forest in north. <u>Basin Area:</u> Chalban river and Bhedkhor, <i>Bibankharka</i> and <i>Khabyarkharka</i> along the river in west; Garjabankharka-Keljabankharka-Salkaban trail in east; Khabyarkharka-Manraban-Salkaban trail in south; Pine forest in north.
Management RESPONSIBILITY	Biwang Daha Youth Club.
Wetlands type	Freshwater/natural; Lacustrine; Seasonal.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.:</u> 31.2 <sup>0</sup> C; <u>Avg. Min.:</u> 3.6 <sup>0</sup> C. <u>Avg. Rainfall:</u> 441 mm/yr (DDC Profile).
Area	<u>Core Area:</u> 2 ha; Avg. Length: 260 m; Avg. Width: 105 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 3-1 m; <u>Basin Area:</u> 900 ha.
Water Volume	<u>Volume:</u> NA <u>Inlet:</u> None; <u>Outlet:</u> <i>Blungchung Khola</i> .
Water quality	<u>Physicochemical parameter:</u> Temp: 8°C, pH: 6; Transparency: 0.5 m.
Soil feature	Dar kcolor; Silt loam texture.
Shocks/vulnerability	None.
Major aquatic plants	None.
Major plants in basin	<i>Myrica esculanta</i> (LN: Kaafal; HT: Tr; LU: Fruit, Ful); <i>Rhododendron arboretum</i> (LN: Laligurans; HT: Tr; LU: Ful); <i>Quercus leucotrichophora</i> (LN: Baanj; HT: Tr; LU: Fd, Ful); <i>Quercu ssp</i> (LN: Khasru; HT: Tr; LU: Ful, Tm, Fd); <i>Juglans regia</i> (LN: Okhar; HT: Tr; LU: Fruit).
Fish	Not found in this lake.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto; EN: Frog); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common Lizard); <i>Naja naja</i> (LN: Nag, EN: Indian Cobra).
Bird	<i>Catreus wallichii</i> (LN: Kaalij; EN: Cheer Pheasant); <i>Lophophorus impeyanus</i> (LN: Danfe; EN: Impeyan)

	Pheasant); <i>Grus grus</i> (LN: Sarus; EN: Sarus Crane); <i>Phalacrocorax carbo</i> (EN: Great Cormorant, LN: Jalewa) <i>Casmerodius albus</i> (EN: Great Egret, LN: Bakulla).
Mammals	<i>Moschus moschiferos</i> (LN: Kasturimriga; EN: Musk Deer); <i>Pseudois nayaur</i> (LN: Naur; EN: Blue Sheep); <i>Hemitragus jemlahicus</i> (LN: Jharal; EN: Himalayan Tahr); <i>Nemorhedus goral</i> (LN: Ghoral; EN: Himalayan Goral); <i>Panther apardus</i> (LN: Chituwa; EN: Leopard).
Invasive alien species	<i>Eupatorium adenophorum</i> (LN: Kalobanmara; EN: Mexican Devil).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	<i>Bibankharka</i> ; Moran; 0.5 km from lake; Main trail: Jhimma-Garjaban-Manraban trail; 0.5 km from lake to the main trail.
Land use	Forest land (60%); Agriculture (30%); Shrubland (5%); Settlement (1%); Wetland (1%), Grass land (3%).
Demography	Population: 493; Male: 220; Female: 273; HHs: 96 (Census 2011); Ethnicity: Janajati: 95%; Dalit 5%; Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>5000.
Traditional production system	Terrace farming; Traditional goat & sheep farming.
Traditional water use practices	Water mill (Ghatta); Water coup; <i>Community Kulo</i> .
Cultural record	Holy stone.
Genesis/origin of lake	NA.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Water for livestock; NTFPs; Fuelwood; Fodder/forage; Timber.
Cultural services	Aesthetic and scenic; Religious site.
<b>E. Restoration/Management</b>	
Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	>5000 annual visitors; No infrastructure facilities near lake; Teashops in <i>Garjaban</i> and <i>Bibankharka</i> ; No public transport. Few hotels at Thulogau (4 hrs walk from lake); Low tourism potential.
<b>G. Lake condition</b>	
	Good.

## Annex-49: Inventory of lakes in Rukum East district

### 1. Serpu Daha

Code: P5-D10-001

Toposheet no: 2882 06B

Date of inventory: March, 2015



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 28°41'45.09"N; Lon.: 83°29'6.77"E; Alt.: 1310 masl.

Geographical position

Mahabharat Lekh.

Administrative feature

MWDR; Rukum district; Bafikot VDC-3 & 7; Serpu.

(Current: Dhaulagiri Municipality; Ward no. 4)

Boundary

Core Area: KharkKholagau-Serpu-Darnetaril in west; KharkKholagau-Bukeni-Nepane trail in east; *Dahagau* in south; *Serpu*, *KharkKholagau* and *Nepani* in north.

Basin Area: *Barpokhara*, *Kadagau* and *Baluwachaur* in west; *Siuban*, *Kholagau*, *Nepane* and *Bhotanigare* villages in east; *Kadagau-Dhagau-Nepane* trail in south; *Barpokhara-Siuban-Kholagau* in north.

Management Responsibility

Bafikot VDC, Syarpu Daha Agriculture Cooperative.

Wetlands type

Freshwater/natural; Riverine; Perennial.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 30° C (June). Avg. Min.: 3.9° C (January).  
Avg. Rainfall: 3076.1 mm/yr (DDC Profile).

Area

Core Area: 70 ha; Avg. Length: 1290 m; Avg. Width: 665 m; Avg. Depth: 10 m; Max-Min Surface Water Level: 15-6 m; Basin Area: 4338 ha.

Water Volume

Volume: NA; Inlet: *Khar Khola*; Outlet: *Darne Khola*.

Water quality

Physicochemical parameter: Temp: 20° C, pH: 8; Transparency: 2 m.

Soil feature

Grey color; Sandy silt texture.

Shocks/vulnerability

in BS 2060 & 2062, landslides fed huge amount of debris into lake, very vulnerable to siltation.

Major aquatic plants

None.

Major plants in basin

*Diploknema butyracea* (LN: Chiuri, HT: Tr, LU: Oil, Fd) *Pinus spp.* (LN: Salla, HT: Tr, LU: Ful, Tm); *Bombax ceiba* (LN: Simal, HT: Tr, LU: Fd, Ful); *Melastomamala bathricum* (LN: Angeri, HT: Tr, LU: Ful); *Schima wallichii* (LN: Chilaune; HT: Tr; LU: Ful); *Castanopsis indica* (LN: Katus; HT: Tr; LU: Ful, Fd).

Fish

*Schizothorax spp* (LN: Asla, LU: Meat); *Hypophthalmichthys nobilis* (LN: Bighead Carp, LU: Meat); *Cyprinus carpio* (LN: Common Carp, LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver Carp, LU: Meat).

Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common Lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad); <i>Najanaja</i> (LN: Nag, EN: Indian Cobra).
Bird	<i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Phalacrocorax carbo</i> (LN: Jalewa; EN: Great Cormorant); <i>Casmerodius albus</i> (LN: Bakulla; EN: Great Egret); <i>Lophura lecumelanos</i> (LN: Kaalij EN: Kalij Pheasant); <i>Eudynamys scolopaceus</i> (LN: Koyali, EN: Cuckoo).
Mammals	<i>Muntiacus muntjack</i> (LN: Ratuwamirga; EN: Barking Deer); <i>Panthera pardus</i> (LN: Chitwa; EN: Leopard); <i>Oryctolagus sp.</i> (LN: Kharayo; EN: Rabbit); <i>Canis sp</i> (LN: Syal; EN: Jackal); <i>Hystrix indica</i> (LN: Dumsi; EN: Porcupine).
Invasive alien species	<i>Lantana camara</i> (LN: Banmara, Lwangful; EN: Forest Killer; Bitter Vine); <i>Eupatorium adenophorum</i> (LN: Kalobanmara; EN: Mexican Devil).
Endemic plant/animal	Not observed.

### C. Socio-Economy at Basin

Nearby settlement	Dahagau; 50 m from lake; Main Trail: Bafikot-Serpu-Siuban trail; 20 m from lake to the main trail.
Land use	Forest land (53%); Agriculture (30%); Shrubland (7%); Settlement (5%); Barren land (3%); Wetland (2%).
Demography	Population: About 5,005; Male: 2,367; Female: 2,638; HHs: 999; Ethnicity: Janajati (15%; Brahmin (80%); Dalit (5%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>7,000.
Traditional production system	Terrace farming; Upland crop cultivation.
Traditional water use practices	Water mill (Ghatta); Water coup; Famer managed irrigation.
Cultural record	None.
Genesis/origin of lake	Dammed to Khar <i>Khola</i> in past.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Electricity (250 KW); Commercial fish farming; Sand and Stone mining; NTFPs: Fuelwood; Fodder/forage.
Cultural services	Aesthetic and scenic; Recreational (boating).

### E. Restoration/Management

Structural management	Road construction in progress (JICA).
None-structural management	Informal rule for fishery by Syarpu Daha Agricultural Cooperative in place.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

>2000 annual visitors; Small guest house and a few small shops in Dahagau; Vehicle connectivity and public transportation to Khalanga; High tourism potential; Needs improvement in infrastructures and tourism promotional activities.

### G. Lake condition

Degrading.

## Annex-50: Inventory of lakes in Rupandehi district

### 1. Badki Gaddha Pokhari

Code: P5-D11-001

Topo sheet no: 104-07

Date of inventory: February, 2014

Compiler's name: Suresh Bhandari, Surendra Bam



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 22'54.74" N; <u>Lon.</u> : 83° 16'03.23" E; <u>Alt.</u> : 92 masl.
Geographical position	Tarai; Flat.
Administrative feature	WDR; Rupandehi district; Karauta VDC; 6 wards; Majgawa. (Current: Sammarimai Rural Municipality; Ward no. 6)
Boundary	<u>Core area</u> : Settlement in east and north; Agricultural land in west and south. <u>Basin Area</u> : Majgawa gaun in east; Mudila in west; Basuwala Indian border in south; Thomu-Pipara in north.
Management Responsibility	VDC.
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 43.40°C (Jun/Jul). <u>Avg. Min.</u> : 8.75°C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr
Area	<u>Core area</u> : 1.5 ha; Avg. Length: 358 m; Avg. Width: 55 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 2-1 m; <u>Basin Area</u> : 15 ha.
Water Volume	Peak Period: 35000 m <sup>3</sup> ; Dry period: 19000 m <sup>3</sup> ; Inlet: None; Outlet: Water regulator channel.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16 °C; pH: Neutral; Trtransparency: 1.4 m.
Soil feature	White Grey color, silty clay loam texture.
Shocks/vulnerability	Encroachment.
Major aquatic plants	<u>Core area</u> : <i>Ipomoea aquatica</i> (LN: Karmaiya sag; HT: Em; LU: Food); <i>Ipomoea carnea</i> (LN: Dhudiya, HT: Em; LU: Ful).
Major plants in basin	<i>Magnifera indica</i> (LN: Aap; HT: Tr; LU: Fruit, Ful); <i>Acacia nilotica</i> (LN: Babool; HT: Tr; LU: Ful, Med); <i>Bambuseae sp.</i> (LN: Bans; HT: Tr; LU: Ful/Tm); <i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: Tm, Ful); <i>Dalbergia sissoo</i> (LN: Sissoo; HT: Tr; LU: Tm, Ful).
Fish	<i>Clupisoma gaura</i> (LN: Jalkapor; No. per catch: 10; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; No. per catch: 10; Local use: Meat).



Herpetofauna	<i>Rana</i> spp (LN: Bhyagutta); <i>Xenochrophis piscator</i> (LN: Pani Sarpa); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Amolops marmatus</i> (LN: Paha).
Birds	<i>Egretta garzetta</i> (LN: Seto Bakulla; ON: 2; Resident); <i>Acridotheres tristis</i> (Myna, ON: 3; Resident); <i>Corvus splendens</i> (LN: Kag; ON: 2; Resident); <i>Passer domesticus</i> (LN: Bhangera; ON: 5; Resident); <i>Gruidae gruiformes</i> (LN: Sarus; ON: 1; Migratory);
Mammals	None.
Invasive alien species	<u>Plants</u> : <i>Ipomoea carnea</i> (LN: Dhudiya, CO: 5%, LU: Ful). Year of appearance: 1990.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Majigawa; 100 m from lake; Main Trail: Semera - Marchwar road; 4 km from lake.
Land use	Agriculture (70%); Settlement (25%); Wetlands (5%);
Demography	Population: 1200; Male: 700; Female: 500; HHs: 200; Ethnicity: Brahmin/Chettri (50%); Dalit (50%); (Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	250 no.
Traditional production system	Traditinal paddy cultivation.
Traditional water use practices	Famer managed canals; Wells.
Cultural record	Shiva Temple.
Genesis/origin of lake	Landlord constructed lake for personal use.

### **D. Ecosystem Goods/Services**

Provisional services	Irrigation; Fishersy.
Cultural services	Local fair during Shivaratri.

### **E. Restoration/Management**

Structural management	None.
Non-structural management	Volunteer restriction for pollutions.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

No tourism potential

### **G. Lake condition**

Good.

## 2. Bangai Pokhari

Code: P5-D11-002

Topo sheet no: 104 -07

Date of inventory: February, 2014

Compiler's name: Suresh Bhandari, Surendra Bam



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°22'18.21" N; <u>Lon.</u> : 83°16'07.68" E; <u>Alt.</u> : 94 masl.
Geographical position	Terai; Flat.
Administrative feature	WDR; Rupandehi district; Karauta VDC; 4 wards; Bangai. (Current: Sammarimai Rural Municipality; Ward no. 2)
Boundary	<u>Core area</u> : Agricultural land in all directions. <u>Basin Area</u> : Nahar Sadhak in east; Bhangai village in west; Pipari village in south; Pharena VDC in north.
Management Responsibility	VDC.
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max. Temp.</u> : 43.40°C (Jun/Jul). <u>Avg. Min.</u> : 8.75°C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr
Area	<u>Core area</u> : 2 ha; Avg. Length: 96 m; Avg. Width: 94 m; Avg. Depth: 2m; Max-Min Surface Water Level: 2- 1m; <u>Basin Area</u> : 20 ha.
Water Volume	Peak Period: 18,000 m <sup>3</sup> ; Dry period: 9,000 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16 °C; pH: Neutral; Transparency: 0.5 m
Soil feature	White Grey color, Silty clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Ficus benghalensis</i> (LN: Bar; HT: Tr; LU: Fd, Rel); <i>Aegle marmelos</i> (LN: Bel; HT: Tr; LU: Fruit, Rel tree); <i>Ficus religiosa</i> (LN: Pipal; HT: Tr; LU: Rel).
Fish	<i>Labeo rohita</i> (LN: Rahu; No. per catch: 10; LU: Meat).
Herpetofauna	<i>Rana</i> spp (LN: Bhyagutta); <i>Xenochrophis piscator</i> (LN: Pani Sarpa); <i>Ptyas mucosa</i> (LN: Dhaman).
Birds	<i>Egretta garzetta</i> (LN: Seto Bakulla; ON: 2; Resident); <i>Corvus splendens</i> (LN: Kag; ON: 4; Resident); <i>Acridotheres tristis</i> (LN: Myna; ON: 5; Resident);

Mammals	None.
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Bangai; 200 m from lake; Main trail: Semera-Marchwar Road; 4 km from lake.
Land use	Agriculture (80%); Settlement (10%); Wetlands (10%);
Demography	Population: 800; Male: 500; Female: 300; HHs: 150; Ethnicity: Brahmin/Chettri (75%); Dalit (20%); Others (5%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	250 no.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	Kali Temple.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Irrigaton; Fishery.
Cultural services	Local fair during Dashain.

### **E. Restoration/Management**

Structural management	None.
Non-structural management	None
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degrading.

### 3. Bhanaiya Pokhari

Code: P5-D11-003

Topo sheet no: 104-07

Date of inventory: February, 2014

Compiler's name: Suresh Bhandari, Surendra Bam



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°25'49.60" N; <u>Lon.</u> : 83° 20'22.46" E; <u>Alt.</u> : 97 masl.
Geographical position	Tarai; Flat.
Administrative feature	WDR; Rupandehi district; Bogadi VDC; 1 wards; Bhanaiya. (Current: Kotahimai Rural Municipality; Ward no. 7)
Boundary	<u>Core area</u> : Parsauwa road in east; Betakuiya road in west; Agriculture land in south; Parsauwa-Betakuiya junction in north. <u>Basin Area</u> : Agriculture land in east, south and north; Settlement in west.
Management Responsibility	VDC.
Wetlands type	Freshwater/ natural; Lacustrine; Seasonal.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 43.40°C (Jun/Jul). <u>Avg. Min.</u> : 8.75°C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr
Area	<u>Core area</u> : 1.5 ha; Avg. Length: 255 m; Avg. Width: 125 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 1.5 – 0.5 m; <u>Basin Area</u> : 25 ha.
Water Volume	Peak Period: 47000 m <sup>3</sup> ; Dry period: 15000 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 20° C; pH: Neutral; Transparency: 0.5 m
Soil feature	White Grey color, silty clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Ipomoea carnea</i> (LN: Dhudiya; HT: Em; LU: Ful).
Major plants in basin	<i>Ficus religiosa</i> (LN: Pipal; HT: Tr; LU: Rel tree); <i>Acacia nilotica</i> (LN: Babool; HT: Tr; LU: Ful, Med); <i>Dalbergia sissoo</i> (LN: Sissoo; HT: Tr; LU: Tm, Ful); <i>Ageratina adenophora</i> (LN: Banmara; HT: Sh).
Fish	<i>Acrossocheilus hexagonolepis</i> (LN: Katla; No. per catch: 10; Local use: Meat); <i>Clupisoma gaura</i> (LN: Jalkapor; No. per catch: 15; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; No. per catch: 20; LU: Meat).

Herpetofauna	<i>Rana</i> spp (LN: Bhyagutta); <i>Xenochrophis piscator</i> (LN: Pani Sarpa); <i>Ptyas mucosa</i> (LN: Dhaman).
Birds	<i>Acridotheres tristis</i> (LN: Myna, ON: 5; Resident); <i>Corvus splendens</i> (LN: Kag; ON: 6; Resident); <i>Gruidae gruiformes</i> (LN: Sarus; ON: 2; Migratory); <i>Dicrurus macrocercus</i> (LN: Kaalo Chibe; ON: 1; Resident); <i>Egretta garzetta</i> (LN: Seto Bakulla; ON: 2; Resident).
Mammals	None.
Invasive alien species	<u>Plants</u> : <i>Ipomoea carnea</i> (LN: Dhudiya, CO: 10%, LU: Ful); <i>Ageratina adenophora</i> (LN: Banmara, CO: 5%, LU: Fod, Area); <i>Parthenium hysterophorus</i> (LN: Kanike ghas, CO: 10%, LU: None).
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Majhagawa Bazar; 1 km from lake; Main trail: Semera - Marchwar Road; 3.5 km from lake.
Land use	Agriculture (80%); Settlement (10%); Wetlands (10%);
Demography	Population: 190; Male: 100; Female: 90; HHs: 35; Ethnicity: Brahmin/Chettri (20%); Muslim (70); Other (10%); Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	50 no.
Traditional production system	Traditional paddy farming.
Traditional water use practices	Community managed canal; Wells.
Cultural record	Kali Temple.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Irrigation water; Fishery.
Cultural services	Local fair during Dashain.

### **E. Restoration/Management**

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

No tourism potential

### **G. Lake condition**

Degrading.

#### 4. Bhelai Pokhari

Code: P5-D11-004

Toposheet no: 105 - 01

Date of inventory: March, 2014

Compiler's name: Aman Dangaura,  
Pradeep Raj Joshi and Prakash  
Sigdel



##### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 27° 31' 11.2" N; <u>Lon.</u> : 83° 31' 13.1" E; <u>Alt.</u> : 99 masl.
Geographical position	Terai.
Administrative feature	WDR; Rupandehi district; Patkhauli VDC; Ward no. 7; Bhelai. (Current: Omsatiya Rural Municipality; Ward no. 5)
Boundary	<u>Core area</u> : Natural embankment in all direction. <u>Basin Area</u> : Agriculture land, road and settlement in east; Agricultural land in west and north; Agricultural land and road in south.
Management Responsibility	VDC.
Wetlands type	Man-made; Aquaculture.

##### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 43.7 <sup>0</sup> C (Jun/Jul). <u>Avg. Min Temp.</u> : 8.75 <sup>0</sup> C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Area	<u>Core area</u> : 1.5 ha; Avg. Length: 150 m; Avg. Width: 100 m; Avg. Depth: 1.5 m; Max - Min Surface Water Level: 4 – 1 m; <u>Basin Area</u> : 15 ha.
Water Volume	Estimated volume in peak period: 60,000 m <sup>3</sup> ; Dry period: 15,000 m <sup>3</sup> ; Inlet: None. Outlet: none.
Water quality	<u>Physicochemical parameter</u> : Temp.: 22 <sup>0</sup> C; pH: Slightly acidic; Transparency: 0.2 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Bambusa</i> spp. (LN: Bans; HT: Hr; LU: Handicraft, Fd); <i>Cajanus cajan</i> (LN: Rahar; HT: Tr; LU: Pulses); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Religious Tr); <i>Dalbergia sisso</i> (LN: Sisau; HT: Tr; LU: Ful).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo</i> <i>rohita</i> (LN: Rahu; LU: Meat).

Herpetofauna	<i>Rana</i> spp (LN: Bhyagutta); <i>Xenochrophis piscator</i> (LN: Pani Sarpa); <i>Ptyas mucosa</i> (LN: Dhaman).
Birds	<i>Nettapus coromandelianus</i> (LN: Tel haans); <i>Egretta garzetta</i> (LN: Bakulla).
Mammals	None.
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Bhelai; 200 m from lake; Main Trail: Khaireni – Bhairahawa Road; 100 m from lake.
Land use	Agricultural land (85%); Wetlands (5%); Settlement (5%); Others (5%).
Demography	Population: 108; Male: 50; Female: 58; HHs: 20; Ethnicity: Janajati (100%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About 100 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Community managed small canals; Wells.
Cultural record	None.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Fishery; Irrigation (pump set to drain out water).
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degrading.

## 5. Dube Pokhari

Code: P5-D11-005

Topo sheet no: 104-07

Date of inventory: February, 2014

Compiler's name: Suresh Bhandari, Surendra Bam



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°25'17.60" N; Lon.: 83° 21'33.13" E; Alt.: 96 masl.

Geographical position

Terai; Flat.

Administrative feature

WDR; Rupandehi district; Bogadi VDC; Ward no. 6; Kataiya. (Current: Kotahimai Rural Municipality; Ward no. 7)

Boundary

Core area: Health Post in east; Settlement in west; Agriculture land in north and south.

Basin Area: Agricultural land in east, south and north; Settlement in west.

Management Responsibility

VDC.

Wetlands type

Freshwater/ natural; Lacustrine; Seasonal.

### B. Ecological Feature

Climatic feature

Avg. Max. Temp.: 43.40°C (Jun/Jul). Avg. Min.: 8.75°C (Dec); Avg. Rainfall: 1391 mm/yr

Area

Core area: 0.5 ha; Avg. Length: 105 m; Avg. Width: 55 m; Avg. Depth: 1.5 m; Max – Min Surface Water Level: 2– 1.5 m; Basin Area: 10 ha.

Water Volume

Peak Period: 11'000 m<sup>3</sup>; Dry period: 8,000 m<sup>3</sup>; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp.: 16<sup>0</sup> C; pH: Neutral; Transparency: 0.3 m

Soil feature

White Grey color, silty clay loam texture.

Shocks/vulnerability

Encroachment.

Major aquatic plants

Core area: None.

Major plants in basin

*Magnifera indica* (LN: Aap; HT: Tr; LU: Fr, Ful); *Ficus religiosa* (LN: Pipal; HT: Tr; LU: Rel); *Bambusa sp.* (LN: Bans; HT: Tr; LU: Ful, Handicraft); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Ful); *Dalbergia sissoo* (LN: Sisau; HT: Tr; LU: Tm, Ful).

Fish

*Clupisoma gaura* (LN: Jalkapor; No. per catch: 15; LU: Meat); *Labeo rohita* (LN: Rahu; No. per catch: 20; LU: Meat).

Herpetofauna

*Rana spp* (LN: Bhyagutta); *Xenochrophis piscator* (LN: Pani Sarpa); *Ptyas mucosa* (LN: Dhaman).

Birds

*Egretta garzetta* (LN: Seto Bakulla; ON: 3; Resident); *Acridotheres tristis* (Myna, ON: 5; Resident); *Corvus*



*splendens* (LN: Kag; ON: 3; Resident); *Passe domesticus* (LN: Bhangera; ON: 10; Resident); *Gruidae gruiformes* (LN: Sarus; ON: 2; Migratory).

Mammals None.  
Invasive alien species None.  
Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Parsauwa Bazar; 1.5 km; Main trail: Semera-Marchwar Road; 2 km from lake.  
Land use Agriculture (75%); Settlement (20%); Wetlands (5%);  
Demography Population: 550; Male: 300; Female: 250; HHs: 100; Ethnicity: Brahmin/Chettri (75%); Dalit (10%); Others (15%); Major Religion: Hindu;  
Jurisdiction/ownership State.  
Wetlands dependent community None.  
Livestock at basin 200 no.  
Traditional production system None.  
Traditional water use practices None.  
Cultural record None.  
Genesis/origin of lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Irrigation.  
Cultural services None.

### **E. Restoration/Management**

Structural management None.  
Non-structural management None.  
Conservation plan None.  
Monitoring plan None.

**F. Tourism information** Tourism potential.

**G. Lake condition** Degrading.

## 6. Gaidahawa Tal

Code: P5-D11-006

Toposheet no: 104 – 03

Date of inventory: March, 2014

Compiler's name: Prakash Sigdel,



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°35'41.40" N; Lon.: 83°16'52.72" E; Alt.: 112 m amsl.

Geographical position

Terai; Flat.

Administrative feature

WDR: Rupandehi District; Bishnupura VDC; Ward No. 1; Bishanpura.

(Current: Gaidahawa Rural Municipality; Ward no. 4)

Boundary

Core area: Settlement and Agricultural land in east and south; Community forest in south; Settlement of landless community in west.

Basin Area: Private land in east; Forest in west and north; Forest & Settlement south.

Management Responsibility

Gaidahawa Lake Conservation Committee.

Wetlands type

Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max Temp.: 43° C (Jun/Jul). Avg. Min Temp.: 8° C (Dec); Avg. Rainfall: 1391 mm/yr.

Area

Core area: 25 ha; Avg. Length: 1200 m; Avg. Width: 200 m; Avg. Depth: 2 m; Max - Min Surface Water Level: 4 - 0.5 m; Basin Area: 500 ha.

Water Volume

Estimated volume  $0.5 \times 10^6 \text{ m}^3$  in peak period; Dry period:  $0.1 \times 10^6 \text{ m}^3$ ; Inlet: None; Outlet: Irrigation canal in north east.

Water quality

Physicochemical parameter: Temp: 20° C; pH: Slightly acidic; Transparency: 1.5 m

Soil feature

Grey, Clay loam texture.

Shocks/vulnerability

None.

Major aquatic plants

Core area: *Eichhornea crassipes* (LN: Jalkhumbi); *Eupatorium* sp (LN: Banmara; HT: Hr; LU: None); *Ipomea carnea* (LN: Besharam).

Major plants in basin

*Shorea robusta* (LN: Sal; HT: Tr; LU: Ful); *Lagerostomia sps* (LN: HT: Tr; LU: Fd. Tm); *Mangifera indica* (LN: Aap, HT: Tr, LU: Fr); *Dalbergia sisso* (LN: Sisam; HT: Tr, LU: Tm, Ful); *Phragmites karka* (LN: Narkat; HT: Gr); *Terminalia alata* (LN: Saaj; HT: Tr; LU: Tm/Ful). Dhairo

Fish

*Syprinus carpio* (LN: Common carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver carp; LU: Meat); *Ctenopharyngodon idella* (LN: Grass carp; LU: Meat).

Herpetofauna

*Rana tigrina* (LN: Bhyaguta); *Calotes versicolor* (LN: Chheparo); *Xenochrophis piscator* (LN: Panisarpa); *Naja naja*

Birds	(LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait); ... (LN: Kachhuwa). <i>Grus antigone</i> (LN: Sarus; EN:); <i>Leptoptilos javanicus</i> (LN: EN: Lesser Adjutant); <i>Dendrocygna javanica</i> (EN: Lesser Whistling Duck); <i>Casmerodius albus</i> (LN: Bakulla); <i>Ardeola grayii</i> (EN: Indian Pond Heron); <i>Egretta garzetta</i> (EN: Little Egret); <i>Phalacrocorax niger</i> (EN: Little Cormorant); <i>Gyps bengalensis</i> (EN: Vulture).
Mammals	<i>Canis aureus</i> (LN: Syal); <i>Sus scrofa</i> (LN: Bandel); <i>Boselaphus tragocamelus</i> (LN: Nilgai); <i>Felis chaus</i> (LN: Ban biralo).
Invasive alien species	<i>Eichhornea crassipe</i> ; <i>Ipomea carnea</i> .
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Bishanpura; 20 m from lake; Lumbini - Bisanpura Motor Road followed by gravel road; 300 m from lake.
Land use	Agricultural (60%); Forest (25%); Settlement (10%); Wetlands (5%).
Demography	Population: 1500; Male: 700; Female: 800; HHs: 300 HHs; Ethnicity: Brahamin/Chhetri (30%); Muslim (45%); Dalit (10%); Janajati (5%); Others (10%). Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	> 1000 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed canals; Wells.
Cultural record	None.
Genesis/origin of lake	Ox-Bow.

### D. Ecosystem Goods/Services

Provisional services	Irrigation to over 300 ha at downstream; Fishery; Water for livestock; Fodder/forage; Fuelwood; Wild vegetables.
Cultural services	Bath during Chhaith; Local fair during festivals like Chhaith; educational.

### E. Restoration/Management

Structural management	Treking trail; Embankment; Sluice gate for irrigation canal.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

Over 5000 visitors annually; Vulture restaurants and small tea shops; Moderate tourism potential; Needs marketing and improvement in infrastructure.

### G. Lake condition

Good.

## 7. Gajedi Tal

Code: P5-D11-007

Toposheet no: 098-15

Date of inventory: March, 2014

Compiler's name: Prakash Sigdel,



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°39'46.65" N; <u>Lon.</u> : 83°16'33.25" E; <u>Alt.</u> : 125 masl.
Geographical position	Terai.
Administrative feature	WDR: Rupandehi District; Gajedi VDC; Ward No. 3; Danapur. (Current: Kanchan Rural Municipality; Ward no. 1)
Boundary	<u>Core area</u> : Foot trail and forest in east; Agricultural land in west; foot trail and forest in north; Agricultural land in south. <u>Basin Area</u> : Agricultural land and settlement in east, west and south; Forest in north. <i>Gajedi Tal Samrakchan Samiti.</i>
Management Responsibility	
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 43° C (Jun/Jul). <u>Avg. Min Temp.</u> : 8° C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Area	<u>Core area</u> : 4 ha; Avg. Length: 270 m; Avg. Width: 170 m; Avg. Depth: 2 m; Max - Min Surface Water Level: 4 - 0.5 m; <u>Basin Area</u> : Approx. 100 ha.
Water Volume	NA; Inlet: small streams; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : NA.
Soil feature	Grey, Clay loam texture.
Shocks/vulnerability	Encroachment.
Major aquatic plants	<u>Core area</u> : <i>Eichhornea crassipes</i> (LN: Jalkhumbi); <i>Ipomea carnea</i> (LN: Besharam); <i>Nelumbo nucifera</i> (LN: Kamal; HT: Ff; LU: None).
Major plants in basin	<i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Ful); <i>Mangifera indica</i> (LN: Aap, HT: Tr, LU: Fr); <i>Dalbergia sisso</i> (LN: Sisam; HT: Tr, LU: Tm, Ful); <i>Phragmites karka</i> (LN: Narkat; HT: Gr); <i>Terminalia alata</i> (LN: Saaj; HT: Tr; LU: Tm/Ful); <i>Artocarpus lakoocha</i> (LN: Badahar; HT: Tr; LU: Fil.Fd).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat).
Herpetofauna	<i>Bufo melanostictus</i> (EN: Toad); <i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait); ... (LN: Kachhuwa).
Birds	<i>Grus antigone</i> (LN: Sarus; EN:); <i>Casmerodius albus</i> (LN: Bakulla); <i>Neophron percnopterus</i> (LN: ...; EN: Egyptian Vulture); <i>Gyps bengalensis</i> (LN: Giddha; EN: Vulture);

Mammals	<i>Ardeola grayii</i> (EN: Indian Pond Heron); <i>Egretta garzetta</i> (EN: Little Egret); <i>Phalacrocorax niger</i> (EN: Little Cormorant); <i>Alcedo atthis</i> (LN: ...; EN: Kingfisher); <i>Leptoptilos javanicus</i> (LN: EN: Lesser Adjutant); <i>Dicrurus macroceros</i> (LN: Kalo Chibe; EN: Black Drongo).
Invasive alien species	<i>Canis aureus</i> (LN: Syal); <i>Sus scrofa</i> (LN: Bandel); <i>Boselaphus tragocamelus</i> (LN: Nilgai); <i>Felis chaus</i> (LN: Ban biralo); <i>Martes flavigula</i> .
Endemic plant/animal	<i>Eichhornea crassipe</i> ; <i>Ipomea carnea</i> .

### C. Socio-Economy at Basin

Nearby settlement	Danapur; 500 m from lake; Main Trail: East-West Highway to Danapur VDC; 2.5 km from lake.
Land use	Agricultural (40%); Forest (50%); Settlement (5%); Wetlands (5%).
Demography	Population: 12,423; Male: 5,804; Female: 6,619; HHs: 2,517 HHs; Ethnicity: Madehesi (50%); Janajati (30%); Dalit (5%); Others (15%). Major Religion: Muslim/Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>3000 No.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed canal; Community pond; Wells.
Cultural record	Religious site.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Fishery; Fuelwood/Forage; Recreational services such as boating; Picnic spot; Educational services.
Cultural services	Local fair in different festivals.

### E. Restoration/Management

Structural management	Earthen dam; Shelters for visitors; Vehicle parks; Afforestation.
Non-structural management	Volunteer restriction fo any pollutions.
Conservation plan	None (DDC developed site plan for infrastructure improvement); Revenue from boating.
Monitoring plan	None.

### F. Tourism information

Domestic visitors; Around 100 people per day; Boating facilities; Small tea shops; Tourism potential high; Needs improvements in infrastructure.

### G. Lake condition

Good.

## 8. Ganwariya Tal

Code: P5-D11-008

Toposheet no: 104 – 03

Date of inventory: March, 2014

Compiler's name: Aman Dangaura, Prakash Sigdel and Pradeep Raj Joshi



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°31'35.1" N; <u>Lon.</u> : 83°15'52.4" E; <u>Alt.</u> : 85 masl.
Geographical position	Terai.
Administrative feature	WDR: Rupandehi District; Ekala VDC; Ward No. 7; Ganauriha. (Current: Lumbini Sanskritik Municipality; Ward no. 11)
Boundary	<u>Core area</u> : Natural embankment in all directions. <u>Basin Area</u> : Settlement in east and north; Agricultural land in west and south.
Management Responsibility	Community.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 43° C (Jun/Jul). <u>Avg. Min Temp.</u> : 8.° C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Area	<u>Core area</u> : 0.5 ha; Avg. Length: 85 m; Avg. Width: 75 m; Avg. Depth: 2 m; Max - Min Surface Water Level: 4 - 0.5 m; <u>Basin Area</u> : 8 ha.
Water Volume	Peak Period: 25,000 m <sup>3</sup> ; Dry period: 3,000 m <sup>3</sup> ; Inlet: Water discharge from from Agriculture land; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 18° C; pH: Slightly acidic; Transparency: 0.2 m.
Soil feature	Grey, Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Eichhornea crassipes</i> (LN: Jalkhumbi); <i>Ipomea carnea</i> (LN: Besharam).
Major plants in basin	<i>Mangifera indica</i> (LN: Aap, HT: Tr, LU: Fr); <i>Dalbergia sisso</i> (LN: Sisam; HT: Tr, LU: Tm, Ful); <i>Phragmites karka</i> (LN: Narkat; HT: ShFish <i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat).
Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait); ... (LN: Kachhuwa).
Birds	<i>Corvus splendens</i> (LN: Kaag); ... (LN: Patera); <i>Casmerodius albus</i> (LN: Bakulla); <i>Psitta chryasetos</i> (LN: Suga).

Mammals	<i>Canis aureus</i> (LN: Syal).
Invasive alien species	<i>Eichhornea crassipes</i> , <i>Ipomea carnea</i> .
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Ganwariya; 20 m from lake; Main Trail: Bhaisaiya- Ganwariya; 2 km from lake.
Land use	Agricultural (35%); Settlement (60%); Wetland (5%).
Demography	Population: 760; Male: 360; Female: 400; HHs: 150; Janajati (10%); Muslim (75%); Dalit (5%); Others (10%; Paswan, Kalwar, Yadav). Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About 500 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Community pond (2); Wells.
Cultural record	None.
Genesis/origin of lake	None.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Domestic water supply, Fishery.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	No tourism potential.
<b>G. Lake condition</b>	Degraded.

## 9. *Gidhiya Pokhari*

Code: P5-D11-009

Toposheet no: 104 – 03

Date of inventory: March, 2014

Compiler's name: Aman  
Dangaura, Prakash Sigdel and  
Pradeep Raj Joshi



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 32' 47.1" N; <u>Lon.</u> : 83° 17' 09.6" E; <u>Alt.</u> : 92 masl.
Geographical position	Terai.
Administrative feature	WDR: Rupandehi district; Bishnupura VDC; Ward No.3; Kumindihawa. (Current: Gaidahawa Rural Municipality; Ward no. 5)
Boundary	<u>Core area</u> : Natural embankment and grassland in all directions. <u>Basin Area</u> : Agricultural land in north, Forest in east; Ram Janaki Mandir in south; Shiva Mandir and School in west.
Management Responsibility	VDC.
Wetlands type	Manmade; Aquaculture.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 43° C (Jun/Jul). <u>Avg. Min Temp.</u> : 8° C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Area	<u>Core area</u> : 1 ha; Avg. Length: 105 m; Avg. Width: 95 m; Avg. Depth: 2 m; Max - Min Surface Water Level: 4 - 0.5 m; <u>Basin Area</u> : 4 ha.
Water Volume	Peak Period: 40,000 m <sup>3</sup> ; Dry period: 5,000 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 19° C; pH: Slightly acidic; Transparency: 0.5 m.
Soil feature	Grey, Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Nelumbo nucifera</i> (LN: Kamal, Ht: Em, LU: Med); ... (EN: Algae, HT: Sm, LU: None).
Major plants in basin	<i>Mangifera indica</i> (LN: Aap, HT: Tr, LU: Fr); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr); <i>Dalbergia sisso</i> (LN: Sisam; HT: Tr, LU: Tm, Ful); <i>Ziziphus mauritiana</i> (LN: Bayar; HT: Tr, LU: Fruit); <i>Bombax ceiba</i> (LN: Simal; HT: Tr); <i>Azadirachta indica</i> (LN: Neem, HT: Tr, LU: Med); <i>Ageratum conyzoides</i> (LN: Ghande jhar, HT: Hr, LU: Med); <i>Saraca asoca</i> (LN: Ashok, HT: Tr, LU: None).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo</i>



Herpetofauna	<i>rohita</i> (LN: Rahu; LU: Meat); <i>Clarias batrachus</i> (LN: Mangur); <i>Mystus bleekeri</i> (LN: Tenga).
Birds	<i>Xenocrophis piscator</i> (EN: Water Snake); ... (EN: Turtles). <i>Grus grus</i> (LN: Saras); <i>Corvus splendens</i> (LN: Kaag); <i>Casmerodius albus</i> (LN: Bakulla); <i>Coconia nigra</i> (LN: Bhudifore; EN: Stork); <i>Nettapus coromandelianus</i> (LN: Pani haans).
Mammals	None.
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Gidahiya; 100 m from lake; Main Trail: Parsa – Gidahiya; ...m. from lake.
Land use	Forest land (10%); Agricultural (70%); Settlement (5%); Grassland (10%); Wetland (5%).
Demography	Population; Male: Female: HHs: 180; Muslim (75%); Janajati (10%); Dalit (5%); Others (10%; Paswan, Kalwar, Yadav). Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About. 400 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Community pond (3); Wells.
Cultural record	Temple named <i>Ram Mandir</i> .
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Fishery.
Cultural services	Local fair during the month of Chaitra at <i>Ram Nawami</i> .

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No tourism potential.

### G. Lake condition

Degrading.

## 10. Jamuhani Pokhari - I

Code: P5-D11-010

Toposheet no: 105 - 01

Date of inventory: March, 2014

Compiler's name: Aman Dangaura,  
Pradeep Raj Joshi and Prakash  
Sigdel



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 31' 53.5" N; <u>Lon.</u> : 83° 34' 15.2" E; <u>Alt.</u> : 91 m amsl.
Geographical position	Terai.
Administrative feature	WDR; Rupandehi district; Chhutki Ramnagar VDC; Ward no. 9; Jamuhani. (Current: Omsatiya Rural Municipality; Ward no. 6)
Boundary	<u>Core area</u> : Natural embankment in north and west; Forest in south; Stone embankment in east. <u>Basin Area</u> : Agriculture land in west; Grassland in east Agricultural land and temple in north and south.
Management Responsibility	Government.
Wetlands type	Man-made.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 43° C (Jun/Jul). <u>Avg. Min Temp.</u> : 8° C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Area	<u>Core area</u> : Approx 1 ha; Avg. Length: 100 m; Avg. Width: 65 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 3 - 0.5 m; <u>Basin Area</u> : 8 ha.
Water Volume	Peak Period: 20,000 m <sup>3</sup> ; Dry period: 3,000 m <sup>3</sup> ; Inlet: None. Outlet: none.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16° C; pH: Slightly acidic; Transparency: 0.2 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<i>Eichhornea crassipes</i> (LN: Jalkhumbi; HT: Ff; LU: None); <i>Nelumbo nucifera</i> (LN: Kamal; HT: FF; LU: None); <i>Oryza rufipogon</i> (LN: Jungli dhaan; HT: Hr; LU: None).
Major plants in basin	<i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fruit); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Religious Tr); <i>Aegle marmelos</i> (LN: Bel; HT: Tr; LU: Ful).
Fish	<i>Puntius chola</i> (LN: Sidhri; LU: Meat); ... (LN: Laaltika; LU: Meat); <i>Clarias batrachus</i> (LN: Mangur; LU: Meat); <i>Labeo rohita</i> (LN: Rohu; LU: Meat); <i>Oxygarter bacaila</i> (LN:

	Charanga; LU: Meat); <i>Monopterusuchia</i> (LN: Bam; LU: Meat).
Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait).
Birds	<i>Coconia nigra</i> (LN: Bhudifor; EN: Stork); <i>Egretta garzetta</i> (LN: Bakulla).
Mammals	<i>Canis aureus</i> (LN: Syal).
Invasive alien species	<i>Eichhornea crassipes</i> .
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Jamuhani; 250 m from lake; Main Trail: Khaireni – Semrahua Road; 50 m from lake.
Land use	Agricultural land (90%); Wetlands (3%); Settlement (5%); Others (2%).
Demography	Population: 210; Male: 95; Female: 115; HHs: 40; Ethnicity: Janajati (80%); Harijan (15%); Others (5%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	Approx. 135 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	None.
Cultural record	Temple.
Genesis/origin of lake	None.

### **D. Ecosystem Goods/Services**

Provisional services	Fish supply during rainy season.
Cultural services	Religious/Spiritual services.

### **E. Restoration/Management**

Structural management	Dam built.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

<b>G. Lake condition</b>	Degrading
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## 11. Jamuhani Pokhari -II

Code: P5-D11-011

Toposheet no: 105 - 01

Date of inventory: March, 2014

Compiler's name: Aman

Dangaura, Pradeep Raj Joshi and

Prakash Sigdel



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 32' 12.0" N; <u>Lon.</u> : 83° 34' 25.3" E; <u>Alt.</u> : 92 masl.
Geographical position	Terai.
Administrative feature	WDR; Rupandehi district; Chhutki Ramnagar VDC; Ward no. 8; Jamuhani. (Current: Omsatiya Rural Municipality; Ward no. 6)
Boundary	<u>Core area</u> : Natural embankment in north, west, south and east. <u>Basin Area</u> : Road in west and north, Bamboos and agricultural land in east, Agricultural land in south.
Management Responsibility	Government.
Wetlands type	Man-made; aquaculture.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 43° C (Jun/Jul). <u>Avg. Min Temp.</u> : 8° C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Area	<u>Core area</u> : 0.5 ha; Avg. Length: 70 m; Avg. Width: 60 m; Avg. Depth: 0.5 m; Max - Min Surface Water Level: 2 - 0.5 m; <u>Basin Area</u> : 7 ha.
Water Volume	Peak Period: 10,000 m <sup>3</sup> ; Dry period: 3,000 m <sup>3</sup> ; Inlet: None. Outlet: none.
Water quality	<u>Physicochemical parameter</u> : Temp.: 19° C; pH: Slightly acidic; Transparency: 0.3 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Bambusa</i> spp. (LN: Bans; HT: Hr; LU: Handicraft, Fd); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fruit).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat).
Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i>

	(LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait).
Birds	<i>Coconia nigra</i> (LN: Bhudifor; EN: Stork); <i>Egretta garzetta</i> (LN: Bakulla).
Mammals	None.
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Jamuhani; 100 m from lake; Main Trail: Khaireni – Semrahua Road; 10 m from lake.
Land use	Agricultural land (90%); Wetlands (3%); Settlement (5%); Others (2%).
Demography	Population: 210; Male: 95; Female: 115; HHs: 40; Ethnicity: Janajati (80%); Harijan (15%); Others (5%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	Approx. 135 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	None.

### **D. Ecosystem Goods/Services**

Provisional services	Irrigation; Fish supply.
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

<b>F. Tourism information</b>	None.
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<b>G. Lake condition</b>	Good.
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## 12. Karauta Pokhari

Code: P5-D11-012

Topo sheet no: 104 -07

Date of inventory: February, 2014

Compiler's name: Suresh Bhandari,  
Surendra Bam



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°21'10.15" N; <u>Lon.</u> : 83°16'40.96" E; <u>Alt.</u> : 92 m amsl.
Geographical position	Terai; Flat.
Administrative feature	WDR; Rupandehi district; Karauta VDC; Ward no. 1; Barbasi. (Current: Sammarimai Rural Municipality; Ward no. 2)
Boundary	<u>Core area</u> : Barbasi-Border Road in east; Agricultural land in north, south and west. <u>Basin Area</u> : Karauta village in east; Thotari Bazar (India) in west; Bushaula (India) in south; Barbasi village in north.
Management Responsibility	VDC.
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 43°C (Jun/Jul). <u>Avg. Min.</u> : 8°C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Area	<u>Core area</u> : 1 ha; Avg. Length: 110 m; Avg. Width: 95 m; Avg. Depth: 2 m; Max-Min Surface Water Level: 3 – 1.5 m; <u>Basin Area</u> : 8 ha.
Water Volume	Peak Period: 31000 m <sup>3</sup> ; Dry period: 15500 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 17 °C; pH: Neutral.
Soil feature	White Grey color, clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Magnifera indica</i> (LN: Aap; HT: Tr; LU: Fr, Ful); <i>Arecaceae sp.</i> (LN: Khajoor; HT: Tr; LU: Fr); <i>Acacia nilotica</i> (LN: Babool; HT: Tr; LU: Ful/Med); <i>Musa sp.</i> (LN: Kera; HT: Tr; LU: Fruit); <i>Dalbergia sisso</i> (LN: Sisau; HT: Tr; LU: Tm, Ful).
Fish	<i>Labeo rohita</i> (LN: Rahu; No. per catch: 10; LU: Meat).
Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparoo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait).

Birds *Egretta garzetta* (LN: Seto Bakulla; ON: 5; Resident); *Corvus splendens* (LN: Kag; ON: 5; Resident); *Gruidae gruiformes* (LN: Sarus; ON: 3; Migratory).

Mammals Not Observed.

Invasive alien species None.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Karauta Bazar; 150 m west from lake; Main trail: Semera-Marchwar Road; 4 km from lake.

Land use Agriculture (80%); Settlement (10%); Wetlands (10%);

Demography Population: 1100; Male: 500; Female: 600; HHs: 200; Ethnicity: Brahmin/Chettri (65%); Dalit (35%); Major Religion: Hindu.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin 500 no.

Traditional production system Traditional paddy cultivation.

Traditional water use practices Farmer managed canal.

Cultural record Shiv Mandir.

Genesis/origin of lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Irrigation; Fish supply.

Cultural services Local fair during *Shivaratri*.

### **E. Restoration/Management**

Structural management None.

Non-structural management None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** None.

**G. Lake condition** Degrading.

### 13. Kurmindihawa Pokhari

Code: P5-D11-013

Toposheet no: 104 – 03

Date of inventory: March, 2014

Compiler's name: Aman Dangaura,  
Prakash Sigdel and Pradeep Raj  
Joshi



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 32' 56.1" N; <u>Lon.</u> : 83° 17' 23.3" E; <u>Alt.</u> : 96 masl.
Geographical position	Terai.
Administrative feature	WDR: Rupandehi district; Bishnupura VDC; Ward No.3; Kurmindihawa.  (Current: Gaidahawa Rural Municipality; Ward no. 5)
Boundary	<u>Core area</u> : Natural embankment and grassland in all directions.  <u>Basin Area</u> : Agricultural land in all directions.
Management Responsibility	VDC.
Wetlands type	Manmade; Aquaculture.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 43° C (Jun/Jul). <u>Avg. Min Temp.</u> : 8° C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Area	<u>Core area</u> : 0.3 ha; Avg. Length: 60 m; Avg. Width: 40 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 2 - 0.5 m; <u>Basin Area</u> : 7 ha.
Water Volume	Peak Period: 5,000 m <sup>3</sup> ; Dry period: 2,000 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 20° C; pH: Slightly acidic; Transparency: Opaque.
Soil feature	Grey color, Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Nelumbo nucifera</i> (LN: Kamal); <i>Eichhornia crassipes</i> (LN: Jal kumbhi); <i>Pistia stratiotes</i> (LN: Jalkumbhi); ... (LN: Gonn).
Major plants in basin	<u>Core area</u> : None.
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat); <i>Clarias batrachus</i> (LN: Mangur); <i>Mystus bleekeri</i> (LN: Tenga).
Herpetofauna	<i>Xenocrophis piscator</i> (EN: Water Snake); ... (EN: Turtles).



Birds	<i>Grus grus</i> (LN: Saras); <i>Corvus splendens</i> (LN: Kaag); <i>Casmerodius albus</i> (LN: Thulo Bakulla); <i>Coconia nigra</i> (LN: Bhudifore; EN: Stork); <i>Nettapus coromandelianus</i> (LN: Pani haans).
Mammals	<i>Canis aureus</i> (LN: Syal).
Invasive alien species	<i>Eichhornia crassipes</i> .
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Gidahiya; 200 m from lake; Main Trail: Parsa – Gidahiya.
Land use	Forest land (10%); Agricultural (70%); Settlement (5%); Grassland (10%); Wetland (5%).
Demography	Population: 800; Male: 380; Female: 420; HHs: 180; Ethnicity: Muslim (75%); Janajati (10%); Dalit (5%); Others (10%); Paswan, Kalwar, Yadav); Major Religion: Muslim,
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About 400 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed canal; Community pond (3); Wells.
Cultural record	None.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Irrigation; Fish supply during rainy season.
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degraded.

## 14. Kuttwa Pokhari

Code: P5-D11-014

Toposheet no: 104 – 03

Date of inventory: March, 2014

Compiler's name: Aman Dangaura,  
Prakash Sigdel and Pradeep Raj  
Joshi



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 32' 56.2" N; <u>Lon.</u> : 83° 19' 24.0" E; <u>Alt.</u> : 75 masl.
Geographical position	Terai.
Administrative feature	WDR: Rupandehi district; Dhamauli VDC; Ward No. 4; Kuttwa. (Current: Gaidahawa Rural Municipality; Ward no. 1)
Boundary	<u>Core area</u> : Natural embankment in all directions. <u>Basin Area</u> : Agricultural land in all directions.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Riverine; Perennial.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 43° C (Jun/Jul). <u>Avg. Min Temp.</u> : 8° C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Area	<u>Core area</u> : 0.5 ha; Avg. Length: 60 m; Avg. Width: 40 m; Avg. Depth: 2 m; Max - Min Surface Water Level: 4 - 0.5 m; <u>Basin Area</u> : 5 ha.
Water Volume	Peak Period: 10,000 m <sup>3</sup> ; Dry period: 2,000 m <sup>3</sup> ; Inlet: Small stream and Gaida Tal; Outlet: Small stream.
Water quality	<u>Physicochemical parameter</u> : Temp.: 20° C; pH: Slightly acidic.
Soil feature	Grey color, Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Eichhornia crassipes</i> .
Major plants in basin	<i>Mangifera indica</i> (LN: Aap, HT: Tr, LU: Fr); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr); <i>Dalbergia sisso</i> (LN: Sisam; HT: Tr, LU: Tm, Ful); <i>Ziziphus mauritiana</i> (LN: Bayer; HT: Tr, LU: Fruit); <i>Bombax ceiba</i> (LN: Simal; HT: Tr); <i>Psidium guajava</i> (EN: Guava); <i>Bambusa</i> spp. (EN: Bamboo; HT: Hr; LU: Handicraft).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat).
Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait); ... (LN: Kachhuwa).

Birds	<i>Grus grus</i> (LN: Saras); <i>Casmerodius albus</i> (LN: Bakulla); <i>Francolinus gularis</i> (LN: Titra); <i>Nettapus coromandelianus</i> (LN: Paani hans).
Mammals	<i>Canis aureus</i> (LN: Syal); <i>Boselaphus tragocamelus</i> (LN: Nilgai); <i>Sus scrofa</i> (LN: Bandel); <i>Macaca mulatta</i> (LN: Baandar).
Invasive alien species	<i>Eichhornia crassipes</i> .
Endemic plant/animal	None.

### **C. Socio-Economy at Basin/Peripheri**

Nearby settlement	Kattuwa; 500 m from lake; Main Trail: Dhamauli – Kattuwa; 1 km from lake.
Land use	Forest land (10%); Agricultural (75%); Grassland (10%); Wetland (5%).
Demography	No settlement at basin.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Irrigation; Domestic water supply, Fish supply; Playground for livestock of nearby village.
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degrading.

## 15. Majhagawa Pokhari

Code: P5-D11-015

Topo sheet no: 104-07

Date of inventory: February, 2014

Compiler's name: Surendra Bam, Suresh Bhandari



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°26' 42.46" N; Lon.: 83°21' 14.91" E; Alt.: 94 masl.

Geographical position

Tarai.

Administrative feature

WDR; Rupendehi district; Majhagahawa VDC; Ward no. 2; Majhagahawa.

(Current: Kotahimai Rural Municipality; Ward no. 5)

Boundary

Core area: Shiva's Temple in west; Agri-market in north; Agriculture land in south; Shavalamban saving and cooperative building in east.

Basin Area: Itahaiya Tole in east; Majhagahawa village in west; Road in south; Agriculture land in north.

Management Responsibility

None.

Wetlands type

Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 42° C (Jun/Jul). Avg. Min.: 8° C (Dec).

Area

Core area: Approx. 1 ha; Avg. Length: 70 m; Avg. Width: 60 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 2 - 1 m; Basin Area: 5 ha.

Water Volume

Peak Period: 5,000 m<sup>3</sup>; Dry period: 2,000 m<sup>3</sup>; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temperature: 20°C; pH: Slightly acidic; Transparency: 0.3 m.

Soil feature

Grey color; Silt loam clay texture.

Shocks/vulnerability

None.

Major aquatic plants

Core area: None.

Major plants in basin

*Magnifera indica* (LN: Aanp; HT: Tr; LU: Fruit); *Dalbergia sissoo* (LN: Sisau; HT: Tr; LU: Ful); *Ficus religiosa* (LN: Peepal; HT: Tr; LU: rel); *Ageratum conyzoides* (LN: Gandhe; HT: Hr; LU: None).

Fish

*Hypophthalmichthys molitrix* (LN: Silver carp; LU: Meat); *Labeo rohita* (LN: Rohu, LU: Meat).

Herpetofauna

*Rana tigrina* (LN: Bhyaguta); *Calotes versicolor* (LN: Chheparo); *Xenochrophis piscator* (LN: Panisarpa); *Naja naja*

(LN: Goman); *Ptyas mucosa* (LN: Dhaman); *Bungarus fasciatus* (LN: Krait).

Birds	<i>Acridotheres tristis</i> (LN: Sarraute; ON: 8); <i>Corvus splendens</i> (LN: Crow; ON: 7); <i>Grus antigone</i> (LN: saras; ON: 1)
Mammals	None.
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Majhagahawa Village; 30 m from lake; Main Trail: Bhairahawa- Semaramarchahawa Road; 500 m from lake.
Land use	Forest land (5%); Grass land (5%); Agriculture (50%); Settlement (30%); Wetlands (5%); Others (5%);
Demography	Population: 159; Male: 109; Female: 50; HHs: 20; Ethnicity: Janajati (45%); Brahmin/Chettri (15%); Muslim (30%); Dalit (10%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	Around 200 no.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	Shiva temple.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Drinking water for animal.
Cultural services	Local fair during <i>Shivaratri</i> because Shiva temple lies at shore of lake.

### **E. Restoration/Management**

Structural management	Build up of dikes.
None. -structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degrading.

## 16. Mohamadnagar Pokhari

Code: P5-D11-016

Toposheet no: 104 – 03

Date of inventory: March, 2014

Compiler's name: Aman Dangaura, Pradeep Raj Joshi and Prakash Sigdel



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 29' 25.7" N; <u>Lon.</u> : 83° 14' 36.5" E; <u>Alt.</u> : 85 masl.
Geographical position	Terai.
Administrative feature	WDR; Rupandehi district; Tenuhawa VDC; Ward no. 3; Mohamadnagar.  (Current: Lumbini Sanskritik Municipality; Ward no. 5)
Boundary	<u>Core area</u> : Natural embankment in all directions. <u>Basin Area</u> : Settlement and forest in south; Agricultural land in east and north; Health post, settlement and gravel road in west.
Management Responsibility	VDC.
Wetlands type	Man-made; Aquaculture.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 43° C (Jun/Jul). <u>Avg. Min Temp.</u> : 8° C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Area	<u>Core area</u> : 0.5 ha; Avg. Length: 100 m; Avg. Width: 45 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 3 – 0.5 m; <u>Basin Area</u> : 8 ha.
Water Volume	Peak Period: 15,000 m <sup>3</sup> ; Dry period: 5,000 m <sup>3</sup> ; Inlet: None. Outlet: small drainage in east towards agricultural land.
Water quality	<u>Physicochemical parameter</u> : Temp.: 18° C; pH: Slightly acidic; Transparency: 0.2 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: None), <i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Ful); <i>Bambusa</i> spp. (LN: Bans; HT: Hr; LU: Handicraft, Fd); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fruit); <i>Saccharum spontaneum</i> (LN: Kaans; HT: Em; LU: Handicraft); ... (LN: Ramchana; HT: Hr; LU: Pulse); <i>Cynodon dactylon</i> (LN: Dubo; HT: Hr; LU: Fd).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat); <i>Aristichthys nobilis</i> (LN: Bighead; LU: Meat).

Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman).
Birds	<i>Ardeola grayii</i> (EN: Indian Pond Heron); <i>Egretta garzetta</i> (EN: Little Egret); <i>Phalacrocorax niger</i> (EN: Little Cormorant); <i>Dendrocygna javanica</i> (EN: Lesser Whistling Duck); <i>Grus antigone</i> (EN: Saras Crane).
Mammals	None.
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Mohammad Nagar; 25 m from lake; Main Trail: Lumbini – Taulihawa Road, 500 m from lake.
Land use	Agricultural land (68%); Wetland (2%); Settlement (15%); Others (15%).
Demography	Population: 280; Male: 130; Female: 150; HH: 45; Ethnicity: Muslim (80%); Dalit (2%); Others (18%; Kahaar, Harjan, Yadav); Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About 100 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### **D. Ecosystem Goods/Services**

Provisional services	Fish supply; Irrigation (water drained out by pumpset).
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Good.

## 17. Nala Pokhari

Code: P5-D11-017

Topo sheet no: 104-07

Date of inventory: February, 2014

Compiler's name: Surendra Bam,  
Suresh Bhandari



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°25'14.53" N; <u>Lon.</u> : 83°18'28.37" E; <u>Alt.</u> : 96 masl.
Geographical position	Tarai.
Administrative feature	WDR; Rupandehi district; Betkuya VDC; Ward no. 3; Betkuya. (Current: Sammarimai Rural Municipality; Ward no. 7)
Boundary	<u>Core area</u> : Agriculture land in west; Betkuiya Bajar in north; Agriculture land in south; Betkuiya Health Post in east. <u>Basin Area</u> : Bhairahawa Taraini road in east; Settlement in west; Road in south; Nauliwa village in north.
Management Responsibility	None.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 42° C (Jun/Jul). <u>Avg. Min.</u> : 8° C (Dec).
Area	<u>Core area</u> : 1.25 ha; Avg. Length: 250 m; Avg. Width: 50 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 2 - 1 m; <u>Basin Area</u> : 8 ha.
Water Volume	Peak Period: 25,000 m <sup>3</sup> ; Dry period: 12,500 m <sup>3</sup> ; Inlet: None; Outlet: None).
Water quality	<u>Physicochemical parameter</u> : Temp.: 19°C; pH: Slightly basic.
Soil feature	Grey color; Silt loam clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Eichhornia crassipes</i> (LN: Jalkhumbhi, HT: Ff; LU: None); <i>Pistia stratiotes</i> (LN: Kumbhika, HH: FF, LU: None).
Major plants in basin	<i>Magnifera indica</i> (LN: Aamp; HT: Tr; LU: Fruit); <i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Ful); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU; religious); <i>bambusa vulgaris</i> (LN: Bans; HT: Tr; LU; Ful); <i>Ageratum conyzoides</i> (LN: Gandhe jhar; HT: Hr; LU: None).
Fish	None.
Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait).



Birds *Acridotheres tristis* (LN: Sarraute; ON: 8); *Corvus splendens* (LN: Crow; ON: 7); *Grus antigone* (LN: saras; ON: 1).

Mammals None.

Invasive alien species *Ageratum conyzoides* (LN: Gandhe Jhar, CO: 20%). *Ipomoea carnea* (LN: Dhokre Ful, CO: 5%); *Pistia stratiotes* (LN: Kumbhika, HH: FF, LU: None).

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Rohinihawa Village; 30 m from lake; Main Trail: Bhairahawa-Tarahini Road; 200 m from lake.

Land use Forest (5%) Agriculture (55%); Settlement (33%); Wetlands (5%); Others (2%);

Demography Population: 793; Male: 544; Female: 249; HHs: 97; *Brahmin/Chettri* (10%); *Janajati* (80%); *Dalit* (10%); Major Religion: Hindu.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin Around 200 no.

Traditional production system None.

Traditional water use practices None.

Cultural record NA.

Genesis/origin of lake NA.

### **D. Ecosystem Goods/Services**

Provisional services None.

Cultural services None.

### **E. Restoration/Management**

Structural management None.

None. -structural management None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degrading.

## 18. Paschim Pokhara

Code: P5-D11-018

Toposheet no: 104 – 03

Date of inventory: March, 2014

Compiler's name: Aman Dangaura,  
Pradeep Raj Joshi and Prakash  
Sigdel



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 29' 08.4" N; <u>Lon.</u> : 83° 15' 32.1" E; <u>Alt.</u> : 75 masl.
Geographical position	Terai.
Administrative feature	WDR; Rupandehi district; Tenuhawa VDC; Ward no. 4; Hagani, Gada.  (Current: Lumbini Sanskritik Municipality; Ward no. 6)
Boundary	<u>Core area</u> : Natural mud embankment in all directions. <u>Basin Area</u> : Agricultural land in all directions.
Management Responsibility	VDC.
Wetlands type	Man-made; Aquaculture.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 43 <sup>0</sup> C (Jun/Jul). <u>Avg. Min Temp.</u> : 8 <sup>0</sup> C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Area	<u>Core area</u> : Approx. 1 ha; Avg. Length: 100 m; Avg. Width: 80 m; Avg. Depth: 1.5; Max - Min Surface Water Level: 5 – 1 m; <u>Basin Area</u> : 10 ha.
Water Volume	Peak Period: 40,000 m <sup>3</sup> ; Dry period: 10,000 m <sup>3</sup> ; Inlet: None. Outlet: small drainage towards agricultural land in east.
Water quality	<u>Physicochemical parameter</u> : Temp.: 21 <sup>0</sup> C; pH: Slightly acidic; Transparency: 0.2 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<i>Nelumbo nucifera</i> (LN: Kamal; HT: FF; LU: None).
Major plants in basin	<i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: None), <i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Ful). <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fruit); <i>Artocarpus lakoocha</i> (LN: Badahar; HT: Tr; LU: Fruit); <i>Bidens pilosa</i> (LN: Kuro; HT: Hr; LU: None); ... (EN: Cactus; HT: Hr; LU: None); <i>Ageratum conyzoides</i> (LN: Gandhe; HT: Hr; LU: None); <i>Saccharum munja</i> (LN: Munj; HT: Hr; LU: Handicraft); <i>Cyperus</i> spp. (LN: None; HT: Hr; LU: Fd); <i>Oxalis corniculata</i> (LN: Chari amilo; HT: Hr; LU: None).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat); <i>Aristichthys nobilis</i> (LN: Bighead; LU: Meat).

Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman).
Birds	<i>Ardeola grayii</i> (EN: Indian Pond Heron); <i>Egretta garzetta</i> (EN: Little Egret); <i>Phalacrocorax niger</i> (EN: Little Cormorant); <i>Dendrocygna javanica</i> (EN: Lesser Whistling Duck); <i>Grus antigone</i> (EN: Saras Crane).
Mammals	<i>Canis aureus</i> (LN: Syal).
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Hagani Gada; 500 m from lake; Main Trail: Lumbini – Kakarhawa border road; 1.5 km from lake.
Land use	Agricultural land (68%); Wetland (2%); Settlement (10%); Grassland (20%).
Demography	Population: 185; Male: 100; Female: 85; HH: 30; Ethnicity: Muslim (70%); Yadav (10%); Others: (20%); Chamar, Harijan, Gupta, Dhobi, Taiswal, Baniya); Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>250 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Irrigation; Fish supply.
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

No tourism potential.

### **G. Lake condition**

Degrading.

## 19. Pipari Pokhari

Code: P5-D11-019

Topo sheet no: 104 -07

Date of inventory: February, 2014

Compiler's name: Suresh Bhandari, Surendra Bam



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°21'27.19" N; <u>Lon.</u> : 83°17'18.11" E; <u>Alt.</u> : 93 masl.
Geographical position	Terai; Flat.
Administrative feature	WDR; Rupandehi district; Karauta VDC; 9 wards; Pipari. (Current: Sammarimai Rural Municipality; Ward no. 1)
Boundary	<u>Core area</u> : Agricultural land amidst the lake. <u>Basin Area</u> : Ramdihawa in east; Pipari in west; Mudila in south; Pipari-Barbase Primary School in north.
Management Responsibility	VDC. (Public Land Management Committee)
Wetlands type	Freshwater/ natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 43°C (Jun/Jul). <u>Avg. Min.</u> : 8°C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr
Area	<u>Core area</u> : Approx. 0.5 ha; Avg. Length: 70 m; Avg. Width: 65 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level: 2–1.5 m; <u>Basin Area</u> : 3 ha.
Water Volume	Peak Period: 9000 m <sup>3</sup> ; Dry period: 7000 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16 °C; pH: Neutral
Soil feature	White Grey color, Silty clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Magnifera indica</i> (LN: Aap; HT: Tr; LU: Fr/Ful); <i>Azadirachta indica</i> (LN: Neem; HT: Tr; LU: Ful, Medicine); <i>Bambusa sp.</i> (LN: Bans; HT: Tr; LU: Ful/Tm); <i>Dalbergia sisso</i> (LN: Sisau; HT: Tr; LU: Tm, Ful).
Fish	<i>Labeo rohita</i> (LN: Rahu; No. per catch: 10; LU: Meat).
Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait).
Birds	<i>Gruidae gruiformes</i> (LN: Sarus; ON: 3; Migratory); <i>Corvus splendens</i> (LN: Kag; ON: 5; Resident); <i>Acridotheres tristis</i> (LN: Myna; ON: 4; Resident).

Mammals	None.
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Pipari Bazar; 50 m from lake; Main trail: Semera-Marchwar road; 2.5 km from lake.
Land use	Agriculture (80%); Settlement (10%); Wetlands (10%).
Demography	Population: 800; Male: 450; Female: 350; HHs: 150; Ethnicity: Brahmin/Chettri (65%); Dalit (35%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About 400 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmer managed canal.
Cultural record	Kali Temple.
Genesis/origin of lake	NA

### **D. Ecosystem Goods/Services**

Provisional services	Irrigaton; Fish supply.
Cultural services	<i>Muram</i> festival of Muslim.

### **E. Restoration/Management**

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degrading.

## 20. Purba Pokhara

Code: P5-D11-020

Toposheet no: 104 – 03

Date of inventory: March, 2014

Compiler's name: Aman Dangaura,  
Pradeep Raj Joshi and Prakash  
Sigdel



### A. General Feature

Conservation status	None
Geographical coordination	<u>Lat.</u> : 27° 29' 12.4" N; <u>Lon.</u> : 83° 15' 55.6" E; <u>Alt.</u> : 83 masl.
Geographical position	Terai.
Administrative feature	WDR; Rupandehi district; Tenuhawa VDC; Ward no. 9; Tenuhawa.  (Current: Lumbini Sanskritik Municipality; Ward no. 6)
Boundary	<u>Core area</u> : Natural embankment in all directions.  <u>Basin Area</u> : Agricultural land in east and south; Settlement in north and west.
Management Responsibility	VDC.
Wetlands type	Man-made; Aquaculture.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 43° C (Jun/Jul). <u>Avg. Min Temp.</u> : 8° C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Area	<u>Core area</u> : Approx. 1 ha; Avg. Length: 90 m; Avg. Width: 80 m; Avg. Depth: 0.5 m; Max - Min Surface Water Level: 1.5 – 0.5 m; <u>Basin Area</u> : 13 ha.
Water Volume	Peak Period: 10,000 m <sup>3</sup> ; Dry period: 4,000 m <sup>3</sup> ; Inlet: None. Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 18° C; pH: Slightly acidic; Transparency: 0.2 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : Algae.
Major plants in basin	<i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm, Ful); <i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fruit); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr; LU: Religious Tr); <i>Psidium guajava</i> (LN: Amba; HT: Tr; LU: Fruit); ... (LN: Rabaida; HT: Tr; LU: Used in cough).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat) <i>Aristichthys nobilis</i> (LN: Bighead; LU: Meat).

Herpetofauna	<i>Xenochrophis piscator</i> (LN: Pani sarpa); <i>Varanus flavescens</i> (LN: Sun gohoro)
Birds	<i>Ardeola grayii</i> (EN: Indian Pond Heron); <i>Egretta garzetta</i> (EN: Little Egret); <i>Phalacrocorax niger</i> (EN: Little Cormorant); <i>Dendrocygna javanica</i> (EN: Lesser Whistling Duck); <i>Grus antigone</i> (EN: Saras Crane).
Mammals	None.
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Tenuhawa; 10 m from lake; Main Trail: Lumbini – Kakarhawa boarder road, 200 m from lake.
Land use	Agricultural land (87%); Wetlands (3%); Settlement (10%).
Demography	Population: 700; Male: 325; Female: 375; HHs: 100; Ethnicity: Muslim (85%); Yadav (15%); Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About 350 no.
Traditional production system	Traditional Paddy cultivation.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Irrigation; Fish supply.
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

No tourism potential.

### **G. Lake condition**

Degrading.

## 21. Rayapur Tal

Code: P5-D11-021

Topo sheet no: 104-07

Date of inventory: February, 2014

Compiler's name: Surendra Bam,  
Suresh Bhandari



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°21'26.54" N; <u>Lon.</u> : 83°20'12.02" E; <u>Alt.</u> : 87 m amsl.
Geographical position	Tarai.
Administrative feature	WDR; Rupendehi district; Rayapur VDC; Ward no. 8; Rayapur. (Current: Marchawari Rural Municipality; Ward no. 1)
Boundary	<u>Core area</u> : Cultivated land in all directions. <u>Basin Area</u> : Pipara village in east; Rayapur village in west; Road in south; Mudihari village in north.
Management Responsibility	None.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 42.4 <sup>0</sup> C (Jun/Jul). <u>Avg. Min.</u> : 8.75 <sup>0</sup> C (Dec).
Area	<u>Core area</u> : 2.5 ha; Avg. Length: 225 m; Avg. Width: 185 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 1.5 - 0.5 m; <u>Basin Area</u> : 20 ha.
Water Volume	Peak Period: 45,000 m <sup>3</sup> ; Dry period: 15,000 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 18°C; pH: Neutral.
Soil feature	Grey color; Silt loam clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Eichhornia crassipes</i> (HT: FF, LU: no use); <i>Ipomoea carnea</i> (HH: Sm, LU: None).
Major plants in basin	<i>Magnifera indica</i> (LN: Aamp; HT: Tr; LU: Fruit); <i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Ful); <i>Ageratum conyzoides</i> (LN: Gandhe jhar; HT: Hr; LU: None).
Fish	None.
Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait).
Birds	<i>Acridotheres tristis</i> (LN: Saraute; ON: 8); <i>Corvus splendens</i> (LN: Crow; ON: 3); <i>Grus antigone</i> (LN: saras; ON: 1); <i>Haliaeetus leucocephalus</i> (LN: Chill; ON: 1).
Mammals	None.



Invasive alien species *Ageratum conyzoides* (LN: Gandhe Jhar, CO: 20%); *Ipomoea carnea* (LN: Dhokre Ful, CO: 5%).

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Semara Village; 100 m from lake; Main Trail: Bhairahawa - Semaramarchahawa Road; 600 m from lake.

Land use Forest (5%) Agriculture (55%); Settlement (33%); Wetlands (5%); Others (2%);

Demography Population: 1248; Male: 870; Female: 398; HHs: 160; Ethnicity: Brahmin/Chettri (10%); Janajati (80%); Dalit (10%); Major Religion: Hindu.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin >100 no.

Traditional production system Traditional paddy cultivation.

Traditional water use practices None.

Cultural record None.

Genesis/origin of lake NA.

### **D. Ecosystem Goods/Services**

Provisional services None.

Cultural services None.

### **E. Restoration/Management**

Structural management None.

None. -structural management None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** NA.

**G. Lake condition** Degrading.

## 22. Rohinihawa Tal

Code: P5-D11-022

Topo sheet no: 104-07

Date of inventory: February, 2014

Compiler's name: Surendra Bam, Suresh Bhandari



### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 27°23'17.19" N; Lon.: 83°18'37.57" E; Alt.: 94 masl.

Geographical position

Tarai.

Administrative feature

WDR; Rupendehi district; Rohinihawa VDC; Ward no. 4; Rohinihawa.

(Current: Sammarimai Rural Municipality; Ward no. 6)

Boundary

Core area: VDC building in west; masjid in north; School in south; cultivated land in east.

Basin Area: Pipara village in east; Rayapur village in west; Road in south; Mudihari village in north.

Management Responsibility

None.

Wetlands type

Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max. Temp.: 42° C (Jun/Jul). Avg. Min.: 8° C (Dec).

Area

Core area: Approx. 1 ha; Avg. Length: 90 m; Avg. Width: 80 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 1.5 - 0.5 m; Basin Area: 4 ha.

Water Volume

Peak Period: 10000 m<sup>3</sup>; Dry period: 3500 m<sup>3</sup>; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp.: 20°C pH: Slightly acidic; Transparency: 0.3 m.

Soil feature

Grey color; Silt loam clay texture.

Shocks/vulnerability

None.

Major aquatic plants

Core area: *Eichhornia crassipes* (HT: FF, LU: none); *Ipomoea carnea* (HH: Sm, LU: None).

Major plants in basin

*Mangifera indica* (LN: Aanp; HT: Tr; LU: Fruit); *Dalbergia sissoo* (LN: Sisau; HT: Tr; LU: Tm, Ful); *Ageratum conyzoides* (LN: Gandhe jhar; HT: Hr; LU: None).

Fish

None.

Herpetofauna

*Rana tigrina* (LN: Bhyaguta); *Calotes versicolor* (LN: Chheparo); *Xenochrophis piscator* (LN: Panisarpa); *Ptyas mucosa* (LN: Dhaman).

Birds

*Acridotheres tristis* (LN: Sarraute; ON: 8); *Corvus splendens* (LN: Crow; ON: 7); *Grus antigone* (LN: saras; ON: 1)

Mammals	None.
Invasive alien species	<i>Ageratum conyzoides</i> (LN: Gandhe Jhar, CO: 20%). <i>Ipomoea carnea</i> (LN: Dhokre Ful, CO: 5%)
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Rohinihawa Village; 30 m from lake; Main Trail: Bhairahawa-Tarahini Road; 50 m from lake.
Land use	Forest (5%) Agriculture (55%); Settlement (33%); Wetlands (5%); Others (2%);
Demography	Population: 793; Male: 544; Female: 249; HHs: 100; Ethnicity: Brahmin/Chettri (10%); Janajati (80%); Dalit (10%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About 200 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Irrigation; Fodder/Forage.
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
None. -structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degrading.

## 23. Sagrahawa Tal

Code: P5-D11-023

Toposheet no: 104 – 03

Date of inventory: March, 2014

Compiler's name: Aman Dangaura,  
Prakash Sigdel and Pradeep Raj  
Joshi



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°33'38.9" N; <u>Lon.</u> : 83°17'55.3" E; <u>Alt.</u> : 101 masl.
Geographical position	Tarai.
Administrative feature	WDR: Rupandehi district; Bishnupura VDC; Ward No. 4; Sagarhawa.  (Current: Gaidahawa Rural Municipality; Ward no. 3)
Boundary	<u>Core area</u> : Natural embankment in all directions.  <u>Basin Area</u> : Forest and road in east; Agricultural land in west; Settlement and Agricultural land in south; Forest in north.
Management Responsibility	Community.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 43° C (Jun/Jul). <u>Avg. Min Temp.</u> : 8° C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Area	<u>Core area</u> : 1 ha; Avg. Length: 120 m; Avg. Width: 80 m; Avg. Depth: 2 m; Max - Min Surface Water Level: 4 - 0.5 m; <u>Basin Area</u> : 5.5 ha.
Water Volume	Peak Period: 40,000 m <sup>3</sup> ; Dry period: 5,000 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 24° C; pH: Slightly acidic; Transparency: 0.5 m.
Soil feature	Grey, Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Mangifera indica</i> (LN: Aap, HT: Tr, LU: Fr); <i>Shorea robusta</i> (LN: Sal; HT: Tr, LU: Tm, Ful), <i>Dalbergia sisso</i> (LN: Sisam; HT: Tr, LU: Tm, Ful); <i>Bambusa</i> sp (LN: Bans; HT: Sh; <i>Azadirachta indica</i> (LN: Neem, HT: Tr, LU: Med);
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat).
Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i>

	(LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait); ... (LN: Kachhuwa).
Birds	<i>Nettapus coromandelianus</i> (LN: Telhans); <i>Grus Grus</i> (LN: Saras); <i>Corvus splendens</i> (LN: Kaag); ... (LN: Patera); <i>Casmerodius albus</i> (LN: Bakulla); <i>Psitta chryasetos</i> LN: Suga).
Mammals	<i>Canis aureus</i> (LN: Syal); <i>Sus scrofa</i> (LN: Bandel); <i>Boselaphus tragocamelus</i> (LN: Nilgai); <i>Felis chaus</i> (LN: Ban biralo).
Invasive alien species	None.
Endemic plant/animal	Endemic turtle reported to be in lake long year back.

### **C. Socio-Economy at Basin**

Nearby settlement	Sagarhawa; 0.5 km from lake; Main Trail: Bhaisaiya-Karmahawa; 1 km from lake.
Land use	Forestland (50%); Grassland (10%); Agricultural (35%); Settlement (2%); Wetland (3%).
Demography	Population: 58; Male: 26; Female: 32; HHs: 11; Ethnicity: Janajati (10%); Dalit (30%); Others (60%; Kohar, Gupta, Mali, Lunia, Chai); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About 50 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed canal; Community pond (2).
Cultural record	None.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Irrigation; Domestic water supply; Fish supply.
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degrading.

## 24. Shankarpur Pokhari

Code: P5-D11-024

Toposheet no: 105 - 01

Date of inventory: March, 2014

Compiler's name: Aman

Dangaura, Pradeep Raj Joshi and

Prakash Sigdel



### A. General Feature

Conservation status	None.
Geographical coordination	Lat.: 27° 33' 42.9" N; Lon.: 83° 34' 22.2" E; Alt.: 100 masl.
Geographical position	Terai.
Administrative feature	WDR; Rupandehi district; Siktahan VDC; Ward no. 7; Shankarpur. (Current: Devdaha Municipality; Ward no. 11)
Boundary	<u>Core area</u> : Natural embankment in all directions. <u>Basin Area</u> : Agriculture land in east, west, and south; Settlement in north.
Management Responsibility	Community.
Wetlands type	Man-made; Aquaculture.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 43° C (Jun/Jul). <u>Avg. Min Temp.</u> : 8° C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Area	<u>Core area</u> : Approx 1 ha; Avg. Length: 85 m; Avg. Width: 80 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 2 - 0.5 m; <u>Basin Area</u> : 5 ha.
Water Volume	Peak Period: 15,000 m <sup>3</sup> ; Dry period: 5,000 m <sup>3</sup> ; Inlet: None. Outlet: none.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16° C; pH: Slightly acidic; Transparency: 0.5 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<i>Eichhornea crassipes</i> (LN: Jalkhumbi; HT: Ff; LU: None).
Major plants in basin	<i>Bambusa</i> spp. (LN: Bans; HT: Hr; LU: Handicraft, Fd).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat).
Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Ptyas mucosa</i> (LN: Dhaman).

Birds *Nettapus coromandelianus* (LN: Telhans); *Grus Grus* (LN: Saras); *Corvus splendens* (LN: Kaag); ... (LN: Patera); *Casmerodius albus* (LN: Bakulla); passer domesticus (LN: Bhangera).

Mammals None.

Invasive alien species *Eichhornea crassipes*.

Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Sankarpur; 20 m from lake; Main Trail: Khaireni – Semrahua Road; 150 m from lake.

Land use Agricultural land (85%); Wetlands (2%); Settlement (5%); Others (8%).

Demography Population: 130; Male: 70; Female: 60; HHs: 25; Ethnicity: Brahmin/Chhetri (5%); Tharu (95%); Major Religion: Hindu.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin Approx. 70 no.

Traditional production system Traditional paddy cultivation.

Traditional water use practices None.

Cultural record None.

Genesis/origin of lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Fish supply.

Cultural services None.

### **E. Restoration/Management**

Structural management None.

None-structural management None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Good.

## 25. Sisausemara Tal

Code: P5-D11-025

Topo sheet no: 104-07

Date of inventory: February, 2014

Compiler's name: Surendra Bam,  
Suresh Bhandari



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°21' 25.53" N; <u>Lon.</u> : 83°21'07.34" E; <u>Alt.</u> : 87 masl.
Geographical position	Tarai.
Administrative feature	WDR; Rupendehi district; Semara VDC; Ward no. 4; Kotihawa. (Current: Marchawari Rural Municipality; Ward no. 2)
Boundary	<u>Core area</u> : Cultivated land in all directions. <u>Basin Area</u> : Semara village in east; Road in west; Semara village in south; Rayapur village in north.
Management Responsibility	None.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 42° C (Jun/Jul). <u>Avg. Min.</u> : 8° C (Dec).
Area	<u>Core area</u> : 1 ha; Avg. Length: 150 m; Avg. Width: 60 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 1 - 0.5 m; <u>Basin Area</u> : 20 ha.
Water Volume	Peak Period: 9,000 m <sup>3</sup> ; Dry period: 4500 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temperature: 19°C pH: Neutral. Transparency: 0.4 m.
Soil feature	Grey color; Silt loam clay texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Eichhornia crassipes</i> (HT: Ff; LU: None).
Major plants in basin	<i>Mangifera indica</i> (LN: Aanp; HT: Tr; LU: Fruit); <i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Ful); <i>Ageratum conyzoides</i> (LN: Gandhe jhar; HT: Herb; LU: None).
Fish	None.
Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait).
Birds	<i>Acridotheres tristis</i> (LN: Sarraute; ON: 8); <i>Grus antigone</i> (LN: saras; ON: 2)
Mammals	None.
Invasive alien species	<i>Ageratum comyzoides</i> (LN: Gandhe Jhar, CO: 20%).



Endemic plant/animal None.

### **C. Socio-Economy at Basin**

Nearby settlement Semara Village; 50 m from lake; Main Trail: Bhairahawa-Semaramarchahawa road; 600 m from lake.

Land use Forest (5%); Agriculture (55%); Settlement (30%); Wetlands (5%); Others (5%);

Demography Population: 593; Male: 343; Female: 250; HHs: 100; Ethnicity: Brahmin/Chettri (10%); Janajati (80%); Dalit (10%); Major Religion: Hindu.

Jurisdiction/ownership State.

Wetlands dependent community None.

Livestock at basin Approx. 100 no.

Traditional production system Traditional paddy cultivation.

Traditional water use practices Farmers managed canal.

Cultural record None.

Genesis/origin of lake NA.

### **D. Ecosystem Goods/Services**

Provisional services Irrigation; Fodder/Forage

Cultural services None.

### **E. Restoration/Management**

Structural management None.

None. -structural management None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degrading.

## 26. Tareni Pokhari

Code: P5-D11-026

Toposheet no: 105 - 01

Date of inventory: March, 2014

Compiler's name: Aman

Dangaura, Pradeep Raj Joshi and

Prakash Sigdel



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 31' 56.6" N; <u>Lon.</u> : 83° 31' 58.2" E; <u>Alt.</u> : 96 masl.
Geographical position	Terai.
Administrative feature	WDR; Rupandehi district; Patkhauri VDC; Ward no. 2; Tareni. (Current: Omsatiya Rural Municipality; Ward no. 5)
Boundary	<u>Core area</u> : Natural embankment in north, west, east and Stone embankment in south. <u>Basin Area</u> : Agriculture land in east and Settlement in west, north and south.
Management Responsibility	Patkhauri L. S. School.
Wetlands type	Man-made and aquaculture.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 43.7° C (Jun/Jul). <u>Avg. Min Temp.</u> : 8.75° C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Area	<u>Core area</u> : 1 ha; Avg. Length: 100 m; Avg. Width: 80 m; Avg. Depth: 1 m; Max - Min Surface Water Level: 2 – 0.5 m; <u>Basin Area</u> : 4 ha.
Water Volume	Peak Period: 15,000 m <sup>3</sup> ; Dry period: 10,000 m <sup>3</sup> ; Inlet: None. Outlet: controlled outlet.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16° C; pH: Slightly acidic; Transparency: 0.5 m.
Soil feature	Grey/dark color; Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<i>Eichhornea crassipes</i> (LN: Jalkhumbi; HT: Ff; LU: None); ... (LN: Kuinyan; HT: FF; LU: None); <i>Pistia stratiotes</i> (LN: Jalkumbhi; HT: Hr; LU: None).
Major plants in basin	<i>Artocarpus heterophyllus</i> (LN: Katahar; HT: Tr; LU: Fruit); <i>Phragmites karka</i> (LN: Narkat; HT: Tr; LU: None); <i>Bambusa</i> spp. (LN: Bans; HT: Hr; LU: Handicraft, Fd); <i>Dalbergia sisso</i> (LN: Sisau; HT: Tr; LU: Ful).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat).

Herpetofauna	<i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait).
Birds	<i>Nettapus coromandelianus</i> (LN: Tel haans); <i>Gyps bengalensis</i> (LN: Giddha; EN: Vulture; ON: 25)
Mammals	None.
Invasive alien species	<i>Eichhornea crassipes</i> ; <i>Pistia stratiotes</i> .
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Patkhauli; 20 m from lake; Main Trail: Khaireni – Butwal Road; 150 m.
Land use	Forest (50%); Agricultural land (20%); Wetlands (5%); Settlement (20%); Others (5%).
Demography	Population: 160; Male: 85; Female: 75; HHs: 35; Ethnicity: Brahmin/Chhetri (25%); Dalit (5%); Others (70%); Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About 100 no.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Fish supply.
Cultural services	None.

### **E. Restoration/Management**

Structural management	Built of stone dams.
None-structural management	Informal rule.
Economic incentives	None.
Conservation plans	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Good.

## 27. Tiger Top Tal

Code: P5-D11-027

Toposheet no: 104 – 03

Date of inventory: March, 2014

Compiler's name: Aman Dangaura,  
Prakash Sigdel and Pradeep Raj  
Joshi



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°30'20.5" N; <u>Lon.</u> : 83°16'28.2" E; <u>Alt.</u> : 79 m amsl.
Geographical position	Tarai.
Administrative feature	WDR: Rupandehi district; Ekala VDC; Ward 8; Karmahawa. (Current: Lumbini Sanskritik Municipality; Ward no. 5)
Boundary	<u>Core area</u> : Natural embankment in all directions. <u>Basin Area</u> : Forest in east; Agricultural land in west; Forest in south; Agricultural land in north.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 43° C (Jun/Jul). <u>Avg. Min Temp.</u> : 8° C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Area	<u>Core area</u> : 1 ha; Avg. Length: 100 m; Avg. Width: 100 m; Avg. Depth: 2 m; Max - Min Surface Water Level: 4 - 0.5 m; <u>Basin Area</u> : 6 ha.
Water Volume	Peak Period: 40,000 m <sup>3</sup> ; Dry period: 5,000 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 21° C; pH: Slightly acidic; Transparency: 0.2 m.
Soil feature	Grey color, Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Mangifera indica</i> (LN: Aanp, HT: Tr, LU: Fr); <i>Eucalyptus citriodora</i> (LN: Safed, HT: Tr, LU: Tm, Ful); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr); <i>Ficus benghalensis</i> (LN: Bar; HT: Tr); ... (LN: Sagun, HT: Tr); <i>Bombax ceiba</i> (LN: Simal; HT: Tr, LU: Tm, Ful), ... (LN: Tenuwa; HT: Tr, LU: Ful); <i>Bambusa</i> sp (LN: Bans; HT: G.
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Clarias batrachus</i> (LN: Magur; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat).

Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait); ... (LN: Kachhuwa).
Birds	... (LN: Kilhat); <i>Grus Grus</i> (LN: Saras); <i>Halcyon smymensis</i> (EN: Kingfisher), <i>Corvus splendens</i> (LN: Kaag); ... (LN: Patera); <i>Casmerodius albus</i> (LN: Bakulla).
Mammals	<i>Canis aureus</i> (LN: Syal); <i>Sus scrofa</i> (LN: Bandel); <i>Boselaphus tragocamelus</i> (LN: Nilgai).
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin/Peripheri**

Nearby settlement	Karmahawa; 0.5 km from lake; Main Trail: Bhaisaiya-Karmahawa; 1 km from lake.
Land use	Forestland (50%); Grassland (5%); Agricultural (40%); Wetland (5%).
Demography	None.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	None.

### **D. Ecosystem Goods/Services**

Provisional services	Irrigation; Fish supply.
Cultural services	Religious service (Karwala mela after 1 month of Bakar Eid).

### **E. Restoration/Management**

Structural management	None.
Non-structural management	Informal rules.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** Approx. 500 no. per year; No tourism potential.

**G. Lake condition** Degrading.

## 28. Tiwari Kataiya Pokhari

Code: P5-D11-028

Topo sheet no: 104 -07

Date of inventory: February, 2014

Compiler's name: Suresh Bhandari, Surendra Bam



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 25'01.59" N; <u>Lon.</u> : 83° 21'02.76" E; <u>Alt.</u> : 96 masl.
Geographical position	Terai; Flat.
Administrative feature	WDR; Rupandehi district; Bogadi VDC; Ward no. 6; Kataiya.
Boundary	<u>Core area</u> : Agriculture land in east, north and south; School in west. <u>Basin Area</u> : Agriculture land in east; Settlement in west; Agricultural land in south; Settlement in north.
Management Responsibility	Star Hariyali Community Forest User Group.
Wetlands type	Freshwater/ natural; Lacustrine; Seasonal.

### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.</u> : 43°C (Jun/Jul). <u>Avg. Min.</u> : 8°C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Physical feature	
Area	<u>Core area</u> : 1 ha; Avg. Length: 135 m; Avg. Width: 105 m; Avg. Depth: 2 m; Max - Min Surface Water Level: 2 - 1.5m; <u>Basin Area</u> : 6 ha approx.
Hydrological feature	
Water Volume	Peak Period: 28000 m <sup>3</sup> ; Dry period: 21000 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 16 °C; pH: Neutral.; Transparency: 0.2 m.
Soil feature	White Grey color; Silty clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Ipomoea carnea</i> (LN: Dhudiya; HT: Em; LU: None).
Major plants in basin	<i>Ficus religiosa</i> (LN: Pipal; HT: Tr; LU: Rel); <i>Mangifera indica</i> (LN: Aap; HT: Tr; LU: Fr/Ful) <i>Eucalyptus sps.</i> (LN: Masala; HT: Tr; LU: Tm, Ful); <i>Acacia nilotica</i> (LN: Babool; HT: Tr; LU: Ful, Med); <i>Saraca asoca</i> (LN: Ashoka; HT: Tr; LU: Oranmental); <i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: Ful); <i>Dalbergia sissoo</i> (LN: Sisau; HT: Tr; LU: Tm, Ful).
Fish	<i>Acrossocheilus hexagonlepis</i> (LN: Katla; No. per catch: 10; LU: Meat); <i>Clupisoma gaura</i> (LN: Jalkapor; No. per catch: 15;

	LU: Meat); <i>Labeo rohita</i> (LN: Rahu; No. per catch: 10; LU: Meat).
Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait).
Birds	<i>Phaethontidae psittaciformes</i> (LN: Suga; ON: 1; Resident); <i>Acridotheres tristis</i> (Myna, ON: 3; Resident); <i>Corvus splendens</i> (LN: Kag; ON: 2; Resident); <i>Aquila accipitridae</i> (LN: Chil; ON: 1; Resident); <i>Gruidae gruiformes</i> (LN: Saras; ON: 3; Migratory);
Mammals	None.
Invasive alien species	<u>Plants</u> : <i>Ipomoea carnea</i> (LN: Dhudiya, CO: 5%; LU: Ful).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Parsuawa Bazar; 3 km, east from lake; Main trail: Semera-Marchawar road; 1.5 km from lake.
Land use	Agriculture (70%); Settlement (20%); Wetlands (10%).
Demography	Population: 300; Male: 175; Female: 125; HHs: 28; Ethnicity: Brahmin/Chettri (80%); Dalit (20%); (Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>30 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed canal.
Cultural record	Kali Temple.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Irrigation; Fish supply.
Cultural services	Educational resource services for Kataiya Primary School.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

None.

### G. Lake condition

Degrading.

## 29. Thulo Pokhara

Code: P5-D11-029

Toposheet no: 104 – 03

Date of inventory: March, 2014

Compiler's name: Aman  
Dangaura, Prakash Sigdel and  
Pradeep Raj Joshi

### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27° 32' 06.8" N; <u>Lon.</u> : 83° 17' 07.7" E; <u>Alt.</u> : 88 masl.
Geographical position	Tarai.
Administrative feature	WDR: Rupandehi district; Ekala VDC; Ward No. 9; Banarhawa.
Boundary	<u>Core area</u> : Natural embankment and grassland in all directions. <u>Basin Area</u> : Agricultural land in all directions.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 43° C (Jun/Jul). <u>Avg. Min Temp.</u> : 8° C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Area	<u>Core area</u> : 1 ha; Avg. Length: 105 m; Avg. Width: 95 m; Avg. Depth: 2 m; Max - Min Surface Water Level: 4 - 0.5 m; <u>Basin Area</u> : 4 ha.
Water Volume	Peak Period: 40,000 m <sup>3</sup> ; Dry period: 5,000 m <sup>3</sup> ; Inlet: Small Canal; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 20° C; pH: Slightly acidic; Transparency: 0.6 m.
Soil feature	Grey color, Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : None.
Major plants in basin	<i>Mangifera indica</i> (LN: Aap, HT: Tr, LU: Fr); <i>Ficus religiosa</i> (LN: Peepal; HT: Tr); <i>Dalbergia sisso</i> (LN: Sisam; HT: Tr, LU: Tm, Ful); <i>Ziziphus mauritiana</i> (LN: Bayer; HT: Tr, LU: Fruit).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Labeo rohita</i> (LN: Rahu; LU: Meat).
Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i> (LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait); ... (LN: Kachhuwa).





Birds	<i>Grus Grus</i> (LN: Saras); <i>Halcyon smymensis</i> (EN: Kingfisher), <i>Corvus splendens</i> (LN: Kaag); ... (LN: Patera); <i>Casmerodius albus</i> (LN: Bakulla); <i>Francolinus gularis</i> (LN: Titra).
Mammals	<i>Canis aureus</i> (LN: Syal); <i>Sus scrofa</i> (LN: Bandel); <i>Boselaphus tragocamelus</i> (LN: Nilgai); <i>Felis chaus</i> (LN: Ban biralo).
Invasive alien species	None.
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Banarhawa; 0.5 km from lake; Main Trail: Pakadihawa road; 1 km from lake.
Land use	Grassland (40%); Agricultural (40%); Wetland (20%).
Demography	No settlement at basin.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None.
Traditional production system	None.
Traditional water use practices	Community pond (3).
Cultural record	None.
Genesis/origin of lake	NA.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Irrigation; Fish supply.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	No tourism potential.
<b>G. Lake condition</b>	Degrading.

### 30. Yekladih Pokhari

Code: P5-D11-030

Toposheet no: 104 – 03

Date of inventory: March, 2014

Compiler's name: Aman Dangaura,  
Prakash Sigdel and Pradeep Raj  
Joshi



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 27°30'25.30" N; <u>Lon.</u> : 83°17'18.3" E; <u>Alt.</u> : 79 masl.
Geographical position	Tarai.
Administrative feature	WDR: Rupandehi district; Yekladih VDC; Ward 3; Yekladih.
Boundary	<u>Core area</u> : Embankment in east; Agricultural land in west; Road in south; Agricultural land in north. <u>Basin Area</u> : School compound in east; Agricultural land in west; Agricultural land in south; Agricultural land in north.
Management Responsibility	VDC.
Wetlands type	Freshwater/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 43° C (Jun/Jul). <u>Avg. Min Temp.</u> : 8° C (Dec); <u>Avg. Rainfall</u> : 1391 mm/yr.
Area	<u>Core area</u> : 0.5 ha; Avg. Length: 75 m; Avg. Width: 65 m; Avg. Depth: 3 m; Max - Min Surface Water Level: 4 - 0.5 m; <u>Basin Area</u> : 7 ha.
Water Volume	Peak Period: 20,000 m <sup>3</sup> ; Dry period: 2,500 m <sup>3</sup> ; Inlet: None; Outlet: None.
Water quality	<u>Physicochemical parameter</u> : Temp.: 21° C; pH: Slightly acidic; Transparency: 0.4 m.
Soil feature	Grey color, Clay loam texture.
Shocks/vulnerability	None.
Major aquatic plants	<u>Core area</u> : <i>Eichhornea crassipes</i> (LN: Jalkhumbi, HT: Ff).
Major plants in basin	<i>Mangifera indica</i> (LN: Aap, HT: Tr, LU: Fr); <i>Azadirachta indica</i> (LN: Neem, HT: Tr, LU: Med); <i>Saccharum spontaneum</i> (LN: Kans; HT: Hr); <i>Colocasia</i> sp (LN: Karkalo, HT: Hr, LU: Veg); <i>Psidium guajava</i> (LN: Aamba; HT: Tr, LU: Fr); ... (LN: Dale Ghans; HT: Tr, LU: Fw); <i>Ageratum conyzoides</i> (LN: Gandhe; HT: Hr).
Fish	<i>Syprinus carpio</i> (LN: Common carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver carp; LU: Meat); <i>Ctenopharyngodon idella</i> (LN: Grass carp; LU: Meat); <i>Clarias batrachus</i> (LN: Mangur; LU: Meat).
Herpetofauna	<i>Rana tigrina</i> (LN: Bhyaguta); <i>Calotes versicolor</i> (LN: Chheparo); <i>Xenochrophis piscator</i> (LN: Panisarpa); <i>Naja naja</i>

	(LN: Goman); <i>Ptyas mucosa</i> (LN: Dhaman); <i>Bungarus fasciatus</i> (LN: Krait); ... (LN: Kachhuwa).
Birds	<i>Acridotheres tristis</i> (LN: Dangre); <i>Streptopelia decaocto</i> (LN: Dhukur; LU: Meat); <i>Alcedo atthis</i> (EN: Kingfisher), <i>Corvus splendens</i> (LN: Kaag); <i>Passer domesticus</i> (LN: Bhangera; EN: Sparrow); <i>Casmerodius albus</i> (LN: Bakulla).
Mammals	<i>Canis aureus</i> (LN: Syal); <i>Sus scrofa</i> (LN: Bandel).
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Ekala; 10 m from lake; Main Trail: Sekuwa- Ekala; 600 m from lake.
Land use	Settlement (10%); Agricultural (85%); Wetland (5%).
Demography	Population: 56; Male: 26; Female: 30; HHs: 12; Ethnicity: Janajati (15%); Muslim (40%); Others (45%; Mali, Kalwar). Major Religion: Muslim.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	About 50 no.
Traditional production system	Traditional paddy cultivation.
Traditional water use practices	Farmers managed canal.
Cultural record	None.
Genesis/origin of lake	NA.

### **D. Ecosystem Goods/Services**

Provisional services	Fishery; Domestic water supply.
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
Non-structural management	Informal rules.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No tourism potential.

**G. Lake condition** Degrading.

## Annex-51: Inventory of lakes in Dailekh district

### 1. BadaPokhari

Code: P6-D1-001

Toposheet no: 2881 07A

Date of inventory: March, 2015



#### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.:</u> 28 <sup>o</sup> 42'30" N; <u>Lon.:</u> 81 <sup>o</sup> 36' 37" E; <u>Alt.:</u> 1860 masl.
Geographical position	Mahabharat Lekh.
Administrative feature	MWDR; Dailekh district; Dullu Municipality-2; <i>Salleri</i> . (Current: Dullu Municipality; Ward no. 2)
Boundary	<u>Core Area:</u> Cropland in all direction. <u>Basin Area:</u> Dense forest in west; east and south; Cropland and <i>Salleri</i> in north.
Management responsibility	None.
Wetlands type	Freshwater/natural; Lacustrine; Seasonal.

#### B. Ecological Feature

Climatic feature	<u>Avg. Max: Temp.:</u> 35 <sup>o</sup> C (April). <u>Avg. Min.:</u> 7.5 <sup>o</sup> C. <u>Rainfall:</u> 1500mm/yr. (DDC Profile).
Area	<u>Core area:</u> 2 ha; Avg. Length: 350m; Avg. Width: 50 m; Avg. Depth: 3 m; Max-Min Surface Water Level: 3–1.5 m; <u>Basin Area:</u> 10 ha.
Water Volume	<u>Volume:</u> NA; <u>Inlet:</u> None; <u>Outlet:</u> Small canal.
Water quality	<u>Physicochemical parameter:</u> Temp: 25 <sup>o</sup> C, pH: 8; Transparency: 0.5 m.
Soil feature	Grey color; Sandy silt& clay texture.
Shocks/vulnerability	N/A
Major aquatic plants	<i>Cynodon dactylon</i> (LN: Dubo; HT: Em; LU: Fd).
Major plants in basin	<i>Bambusa spp</i> (LN: Baans; HT: Gr); LU: Tm, Ful).
Fish	None.
Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto; EN: Frog).
Bird	<i>Passer domesticus</i> (LN: Bhagera; KEN: Sparrow); <i>Eudynamys scolopaceus</i> (LN. Koili; EN: Asiankoel); <i>Streptopelia deccaocto</i> (LN: Dhukur; EN: Dove); <i>Covrus splendidus</i> (LN: Kag; EN: Crow); <i>Grey francolin</i> (LN: Titra; EN: Grey Partridge).
Mammals	None.
Invasive alien species	None.
Endemic plant/animal	None

#### C. Socio-Economy at Basin

Nearby settlement	<i>Salleri</i> ; 0.5 km from lake; Main Trail: Badachaur-Racha road; About 6 km from lake to the main trail.
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Land use	Agriculture (50%); Settlement (50%)
Demography	Population: About 30457; Male: 16235; Female: 14222; Ethnicity: Not available Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None
Traditional production system	Terrace farming.
Traditional water use practices	Community manage <i>Kulo</i> ; Water coup.
Cultural record	None.
Genesis/origin of lake	NA.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Irrigation; Water for livestock; Fodder & fuelwood; Timber; Furniture materials.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	No visitors; No public transportation; No teashops and restaurant in site; No tourism potential.
<b>G. Lake condition</b>	
	Degraded.

## 2. Khal Tal

Code: P6-D1-002

Toposheet no: 2881 04A

Date of inventory: March 2015



### A. General Feature

Conservation status	None.
Geographical coordination	<u>Lat.</u> : 28° 58' 49" N; <u>Lon.</u> : 81° 48' 16" E; <u>Alt.</u> : 2140 masl.
Geographical position	Mahabharat Lekh
Administrative feature	MWDR; Dailekh district; Baluwatar VDC-9, <i>Thulochamalaya</i> . (Current: Naumule Rural Municipality; Ward no. 2)
Boundary	<u>Core Area</u> : Mixed forest in west and north; Gobreni Bhanjyang- Thulochamlaya trail in east; Grassland and cultivation land in south. <u>Basin Area</u> : Nilga-Thulochmlaya-Dobila trail in west; <i>Bheri Khola</i> in east; Cropland and settlement ( <i>Thulochamlaya</i> ) in south; Forest in west.

Management responsibility  
Wetlands typ

None.  
Freshwater/Natural, Lacustrine and seasonal.

### B. Ecological Feature

Climatic feature	<u>Avg. Max Temp.</u> : 27° C (March); <u>Avg. Min. Temp.</u> : 5° C (Jan); <u>Rainfall</u> : 2000 mm/y (DDC Profile); <u>Rainfall</u> : 2000 mm/yr ( <a href="http://www.rapnepal.com/district/district-profile-4">www.rapnepal.com/district/district-profile-4</a> ).
Area	<u>Core Area</u> : 1 ha; Avg. Length: 150 m; Avg. Width: 50 m; Avg. Depth: 6 m; Max-Min Surface Water Level: 3–0.5 m; <u>Basin Area</u> : >10 ha.
Water Volume	<u>Volume</u> : NA; <u>Inlet</u> : None; <u>Outlet</u> : None.
Water quality	<u>Physicochemical parameter</u> : Temp: 10° C, pH: ...; Transparency: 0.2 m.
Soil feature	Grey color; Sandy silt and clay texture.
Shocks/vulnerability	Poor water retention; Silt erosion.
Major aquatic plants	None.
Major plants in basin	<i>Juglans regia</i> (LN: Okhar; EN: Black Walnut; HT: Tr; LU: Fruit); <i>Prinsepia utilis</i> Royle (LN: Dhatelo; HT: Tr), <i>Rhododendron spp</i> (LN: Laligurans; HT: Tr; LU: Tm).
Fish	None.
Herpetofauna	<i>Rana sps</i> (LN: Bhyaguto; EN: Frog).
Birds	<i>passer domesticus</i> (LN: Bhagera; EN: Sparrow); <i>Eudynamys scolopaceus</i> (LN: Koili; EN: Asian Koel); <i>Streptopelia deccaocto</i> (LN: Dhukur; EN: Dove); <i>Covrus splendidus</i> (LN: Kag; EN: Crow)
Mammals	<i>Oryctolagus cuniculus</i> (LN: Kharayo; EN: Rabbit); <i>Martes flavigula</i> (LN: Malsapro; EN: Yellow Marten); <i>Sus scrofa</i> (LN: Bandel; EN: Wildboar); <i>Felis chaus</i> (LN: Banbiralo; EN: Jungle Cat); <i>Ursus sps</i> (LN: Bhalu; EN: Bear).
Invasive alien species	None.
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement

*Thulochamlaya*; 0.5 km from lake; Main Trail: Dailekh Bazaar–Naumune Road-Thulochmlaya; 15 km from lake to main trail.

Land use

Forestland (50%); Settlement (40%); Barren land (10%).

Demography

Population: >1575; Male: 690; Female:885; HHs150; Ethnicity: Major Religion: Buddhism.

Jurisdiction/ownership

State

Wetlands dependent community

None.

Livestock at basin

>50 in no.

Traditional production system

Upland agriculture practice.

Traditional water use practices

Water coup.

Cultural record

None.

Genesis/origin of lake

NA.

### **D. Ecosystem Goods/Services**

Provisional services

Irrigation; Water supply for livestock and biodiversity; Fuelwood & fodder; Timber; NTFPs.

Cultural services

None.

### **E. Restoration/Management**

Planstructural management

Stone boundary around lake.

None-structural management

None.

Conservation plan

None.

Monitoring plan

None.

### **F. Tourism information**

No visitors; No public transportation; No teashops in site; No hotels with accommodation facilities; No tourism potential.

### **G. Lake condition**

Degraded.

## Annex-52: Inventory of lakes in Jumla district

### 1. Pani Pokhari

Code: P6-D2-001

Toposheet no: 2982 09

Date of inventory: March 2015



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 29° 18' 17" N; Lon.: 82° 10' 54" E; Alt.: 2480 masl.

Geographical position

Mahabharat Lekh

Administrative feature

MWDR; Jumla district; Chandannath Municipality-4, Ghuguti.  
(Current: Chandannath Municipality; Ward no. 3)

Boundary

Core Aea: Cultivation land in west; Karnali Technical School in east; Transmission Tower and cropland in south; *Ratamata* settlement in north.

Basin Area: Jag-Khalanga Bazaar in west; Ratamata-Ghuguti-Khalanga Bazaar in east; *Jag-Ghuguti-Dhakani* in south; Cropland and *Ratamata* in north.

Management RESPONSIBILITY

Community.

Wetlands type

Man-made.

#### B. Ecological Feature

Climatic feature

Avg. Max Temp.: 8° C; Avg. Min. Temp.: 0° C; Avg. Rainfall: mm/yr (DDC Profile).

Area

Core area: 1 ha; Avg. Length: 60 m; Avg. Width: 40 m; Avg. Depth: 5 m; Max-Min Surface Water Level: 6–4 m; Basin Area: 1.5 ha.

Water Volume

NA; Inlet: *Ghara Nahar*; Outlet: *Ghara nahar*.

Water quality

Physicochemical parameter: Temp: 8° C, pH: Transparency: 2 m.

Soil feature

Grey color; Sandy silt and clay texture.

Shocks/vulnerability

None.

Major aquatic plants

None.

Major plants in basin

*Juglans regia* (LN: Okhar; EN: Black Walnut; HT: Tr; LU: Fruit); *Malus domestica* (LN: Syau; EN: Apple; HT: Tr; LU: Fruit); *Pyrus communis* (LN: Naspatti; EN: Pear; HT: Tr; LU: Fruit); *Pinus wallichiana* (LN: Gobre Sallo; HT: Tr; LU: Ful, Tm); *Prunus persica* (LN: Aaru; EN: Peach; HT: Tr; LU: Fruit).

Fish

N/A

Herpetofauna

*Rana sps* (LN: Bhyaguto; EN: Frog).

Birds

*passer domesticus* (LN: Bhagera; EN: Sparrow); *Eudynamis scolopaceus* (LN: Koili; EN: Asian Koel); *Streptopelia deccaocot* (LN: Dhukur; EN: Dove); *Covrus splendus* (LN: Kag; EN: Crow).

Mammals

*Sus scrofa* (LN: Bandel; EN: Wildboar); *Felis chaus* (LN: Banbiralo; EN: Jungle Cat); *Ursus sps* (LN.: Bhalu; EN: Bear) etc.

Invasive alien species

None.

Endemic plant/animal

None.



### **C. Socio-Economy at Basin**

Nearby settlement	<i>Ratamata</i> ; 0.5 km from lake. <i>Ratamata-Khalanga Bazzar</i> ; 0.2 km from lake to the main trail.
Land use	Forestland (55%); Settlement (33%); Barren land (5%); Wetlands (2%); Others (5%).
Demography	Population: >20, 000; Male: 10, 500; Female: 9, 500; HHs 3000, Major Religion: Hindu.
Jurisdiction/ownership	Private
Wetlands dependent community	None.
Livestock at basin	>100.
Traditional production system	None.
Traditional water use practices	Farmer managed canal; Traditional <i>Kulo</i> ; Water coup.
Cultural record	None.
Genesis/origin of lake	Man-made.

### **D. Ecosystem Goods/Services**

Provisional services	Hydropower; Irrigation; Water for cattles.
Cultural services	None.

### **E. Restoration/Management**

Plan structural management	Stone fencing (Demarction boundry).
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

No visitors; No public transport; Local teashops in *Ratamata*; Few hotels for accommodation in *Khalaga Bazzar* (about 2 km from lake); No tourism potential.

### **G. Lake condition**

Good.

## Annex-53: Inventory of lakes in Mugu district

### 1. Rara Tal (Mahendra Daha)

Code: P6-D3-001

Toposheet no: 2982 05

Date of inventory: April, 2014



#### A. General Feature

Conservation status

National park (Category 2); Ramsar site.

Geographical coordination

Lat.: 29° 31' 33" N; Lon.: 82° 05' 25" E; Alt.: 2990 masl.

Geographical position

Himalayan zone.

Administrative feature

MWDR; Mugu district; Rara VDC-8 & 9, Hutu Rara.

Boundary

(Current: Chayanath Municipality; Ward no. 9)

Core Area: Foot trail along Chappari slope in west; Dense pine forest in east; Army barrage (Hutu) and office of Park in south; Delta (slope) of *Misichaur Khola* in north.

Basin Area: Murma Danda and dense pine forest in west; Himalayan range in east and north; Forest following foot trail along the boundary of Pina VDC south

Management responsibility

DNPWC.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max Temp.: 11° C; Avg. Min. Temp: 7.5° C; Rainfall: 800 mm/yr (DDC Profile)

Area

Core Area: 1061 ha; Avg. Length: 5.1 km; Avg. Width: 2.7 km; Avg. Depth: 150 m; Max-Min Surface Water Level: 167-NA m; Basin Area: 15000 ha.

Water Volume

Volume: NA; Inlet: Some stream from *Chaumara Danda* and north; None; Outlet: *Khatyad Khola (Nijar Khola)*.

Water quality

Physicochemical parameter: Temp: 7.6° C, pH: Transparency: 10 m

Soil feature

Grey color; Sandy silt & clay texture.

Shocks/vulnerability

High rate erosion in east; Concern for the breach of eastern bund of lake in 2002.

Major aquatic plants

Shoreline reeds; Rooted plants observed (HT: Merged).

Major plants in basin

*Taxus baccata* (LN: Lothesalla; HT: Tr; LU: Med; Ful, Tm); *Rhododendron companulatum* (LN: Gurans; HT: Tr; LU: Tm, Ful); *R. lepidotum* (LN: Gurans; HT: Tr; LU: Tm, Ful); *Pinus wallichiana* (LN: Gobresalla; HT: Tr; LU: Tm, Ful); *Juniperus wallichiana* (LN: Dhupi; HT: Tr; LU: Ful, Insence); *Cryptomeria japonica* (LN: Dhupisallo; HT: Tr; LU: Tm); *Pyrus pashia* (LN: Mayal; HT: Tr; LU: Fd, Ful, Fd); *Prinsepia utilis* (LN: Dhatelo); *Juglans regia* (LN: Okhar; HT: Tr; LU: Fr). 1024 sp. reported. (Shakya et al., 1997).

Fish

3 endemic sps of snow trout. *Schizothorax macrophthalmus* (LN: Asala; LU: Meat); *S. nepalensis* (LN: Tikhe Asala; LU: Meat); *S. raraensis* (LN: Rara Trout; LU: Meat) (BPP,1995)

Herpetofauna

*Nano ranararica* (LN: Rara Paa; EN: Rara Frog).

Birds	<i>Anas strepera</i> (LN: Khadkhade Haans; EN: Gadwall); <i>Anas crecca</i> , (LN: Bijulgairo; EN: Teal); <i>Fulica atra</i> (LN:Marul; EN: Common Coot); <i>Teragella himalayensis</i> (LN: Himali Heukukhura; EN:Snow Cock); <i>Alectoris chukor</i> (LN:Chukar; EN: Chuko Partridge); <i>Lophophorus impejanus</i> (LN:Danfe; EN: Impeyan Pheasant); <i>L. leucomelana</i> (LN:Kalij; EN: Kalij Pheasant). >214 bird species reported (DNPWC 2008).
Mammals	<i>Moschus chrysogaster</i> (LN: Kasturi Mriga; EN: Musk Deer); <i>Ursus selenarctos thibetanus</i> (LN: Bhalu; EN: Himalyan Blackbear); <i>Panther aparadus</i> (LN: Chitwa; EN: Leopard); <i>Ailurus fulgens</i> (EN: Red Panda); <i>Nemorhaedus goral</i> (LN: Ghoral; EN: Himalaya Ghoral); <i>Hemitragus jemalhicus</i> (LN: Jharal; EN: Himalayan Thar). 51 sps reported (DNPWC 2008)
Invasive alien species	..... (LN: Khugalo).
Endemic	<u>Animal</u> : <i>Shizothorax. macropterus</i> (LN: Asala); <a href="#">S.nepalensis</a> (LN: Tikheasala); <a href="#">S. raraensis</a> (LN: Rara trout); <i>Nano ranararica</i> (LN:RaraPaa).

**C. Socio-Economy at Basin**

Nearby settlement	Hutu and Army camp; Very close to; Main Trail: Gamgadi-Mathilothum-Hutu; 3 hours of uphill walk from Gamghadi.
Land use	Forest land (90%); Settlement (5%); Wetland (5%).
Demography	Population: > 8000; Male: 4050; Female: 3950; HHs: 1500 (Pop <sup>n</sup> of Buffer Zone in VDCs under Mugu); Brahmin/Chhetri (80%); Janajati (5%); Dalit (7%); Others (8%); Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>5000 in no. dominated by sheeps.
Traditional production system	Dry crop plantation in buffer zone.
Traditional water use practices	Traditional water mill (ghatta) from khatyadkhola; Water coup; Stone spout.
Cultural record	None.
Genesis/origin of lake	River capture of the Mugu Karnali (Barber 1990).

**D. Ecosystem Goods/Services**

Provisional services	Energy (water mill); Water for livestock and biodiversity; Fodder & forage; Fuelwood; NTFPs; Game meat.
Cultural services	Aesthetic; Recreational (Boating & watersports); Educational tour; Film shooting.

**E. Restoration/Management**

Structural management	Foot trail; Wooden bridges; View tower (NLCDC investment from 2007 to 2014; Regular fund from DNPWC).
None-structural management	Wildlife Act.
Conservation plan	Management Plan (DNPWC 2008).
Monitoring plan	None.

**F. Tourism information**

Largest lake of Nepal; >120 annual external visitors; Regular flight service from Nepalganja to Talcha (Mugu); Teashops in Talchha; Hotel with moderate accommodation facilities in Gumgadhi; 1 hotel in Hutu; Uphill walk from Gamghadi; 3 hrs from either place to lake; High tourism potential; Needs infrastructure development, marketing and tourism promotional activities.

**G. Lake condition**

Good.

## Annex-54: Inventory of lakes in Salyan district

### 1. Kupinde Daha

Code: P6-D4-001

Toposheet no: 2882 09A

Date of inventory: April, 2015



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat.: 28°24'55"N; Lon.: 82°3'27"E; Alt.: 1150 masl.

Geographical position

Mahabharat Lekh.

Administrative feature

MWDR; Salyan district; Kubhinde Daha VDC- 2,3,4 and 5; Kubhindedaha  
(Current: Bangad-Kupinde Municipality; Ward no. 8)

Boundary

Core Area: Dense forest, cropland and *Parigaun* in west; Grassland and *Simleni* in east; Dense forest, crop land and *Ratialna* in south; Baraha temple in north.

Basin Area: Bhatari-Kubinde-Lamada trail in west; Ghareli-Jyamere-Mandadatrail in east; Musilidi-Mandada trail in south; Dense forest in north.

Management RESPONSIBILITY

Kupinde Daha Conservation and Tourism Development Center.

Wetlands type

Freshwater/natural; Lacustrine; Perennial.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 36° C (April). Avg. Min.: 3° C. Avg. Rainfall: 1100 mm/yr. (DDC Profile).

Area

Core area: 25 ha; Avg. Length: 1250 m; Avg. Width: 250 m; Avg. Depth: 48 m; Max-Min Surface Water Level: 51–45 m; Basin Area: 1200 ha.

Water Volume

Volume: NA; Inlet: *Bhitri Khola*; *Chhahare Khola*; *Majh Khola*; Outlet: *Kuchinge Khola*.

Water quality

Physicochemical parameter: Temp: 15° C, pH: 8; Transparency: 2 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

None.

Major aquatic plants

*Hygrorhiza aristata* (LN: Jangalidhan; EN: Wildrice; HT: Em); *Potamogeton nodosus* (LN: Panikhar; EN: Longleaved pondweed; HT: Ft).

Major plants in basin

*Diploknema butyracea* (LN: Chiuri, HT: Tr, LU: Oil, Fd); *Melastoma malabathricum* (LN: Angeri, HT: Tr, LU: Ful); *Myrica esculanta* (LN: Kaafal; HT: Tr; LU: Fruit, Ful), *Alnus nepalensis* (LN: Uttis; HT: Tr; LU: Ful, Fd); *Rhododendron arboretum* (LN: Laligurans; HT: Tr; LU: Ful).

Fish

*Barilius barna* (LN: Fageta; LU: Meat); *Puntias sarona* (LN: Kande; LU: Meat).

Herpetofauna

*Rana spp.* (LN: Bhyaguto; EN: Frog); *Calotes versicolor* (LN: Cheparo; EN: Common Lizard); *Bufo andersoni* (LN: Bhyaguto; EN: Toad); *Naja naja* (LN: Nag, EN: Indian

Bird	Cobra); <i>Orthriophis hodgsonii</i> (LN: Hariyosarpa; EN: Green Snake). <i>Anser indicus</i> (LN: Haans; EN: Duck); <i>Phalacrocorax carbo</i> (LN: Jalewa; EN: Great Cormorant); <i>Casmerodius albus</i> (LN: Bakulla; EN: Great Egret); <i>Lophura lecumelanos</i> (LN: Kaalij; EN: Kalij Pheasant); <i>Melanoperdix niger</i> (LN: Titra; EN: Black Pratrtridge); <i>Chalcophaps indica</i> (LN: Dhukur; EN: Emerald Dove); <i>Eudynamys scolopaceus</i> (LN: Koili; EN: Asiakoel).
Mammals	<i>Muntiacus muntjack</i> (LN: Ratuwamirga; EN: Barking deer) <i>Panthera pardus</i> (LN: Chitwa; EN: Leopard); <i>Oryctolagus sp</i> (LN: Kharayo; EN: Rabbit); <i>Canis sp</i> (LN: Syal; EN: Jackal); <i>Martes flaviigula</i> (LN Pahelomalsapro; EN: Yellowthroated Martin); <i>Moschus sp</i> (LN: Mirga; EN: Deer).
Invasive alien species	<i>Lantena camara</i> (LN: Banmara, Lwangful; EN: Bitter vine).
Endemic plant/animal	None.

**C. Socio-Economy at Basin**

Nearby settlement	Ratialna; 0.5 km from lake; Main Trail: Jyamire-Jaitpani-Simkharka road; 1.5 km from lake to the main trail.
Land use	Forest land (44%); Agriculture (39%); Shrubland (3%); Settlement (5%); Barren land (5%); Wetland (4%).
Demography	Population: 3343; Male: 1689; Female: 1654; HHs: 576 (Census 2011) Ethnicity: Brahmin/Chhetri 65%; Janajati 25%; Dalit 10%; Major Religion: Hindu.
Jurisdiction/ownership	State.
Wetlands dependent community	None
Livestock at basin	>6000.
Traditional production system	Terrace farming (dryland crop); Traditional paddy cultivation.
Traditional water use practices	Famer managed canal; Water coup; Stone spout.
Cultural record	Baraha temple.
Genesis/origin of lake	NA.

**D. Ecosystem Goods/Services**

Provisional services	Irrigation; Water for livestock and wildlife; Fishery; Timber; Fodder & foage; Timber; NTFPs.
Cultural services	Aesthetic and scenic; Recreational (boating/water sport) and Religious site (Baraha temple); Lical fair in Maghesankranti and Marg Purnima.

**E. Restoration/Management**

Structural management	Structural investment by NLDC, VDC and DDC.
None-structural management	Informal rules by Kupinde Daha Conservation and Tourism Development Center in place.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information**

>10,000 annual visitors; Teashops in *Ratialna*; Few small hotels in *Jyamire* (About 1 km from lake); Public transportation; High tourism potential; Needs investment in infrastructure development and tourism promotional activities.

**G. Lake condition**

Good.

## Annex-55: Inventory of lakes in Surkhet district

### 1. *Bulbule Tal*

Code: P6-D5-001

Toposheet no: 2881 6B

Date of inventory: March, 2015



#### A. General Feature

Conservation status: None.  
 Geographical coordination: Lat.: 28°35 '18" N; Lon.: 81°36'48" E; Alt.: 730 masl.  
 Geographical position: Mahabharat Lekh  
 Administrative feature: MWDR; Surkhet district; Birendranagar Municipality; Ward No. 4; Naulapur.  
 Boundary: (Current: Birendranagar Municipality; Ward no. 3)

Boundary

Core Area: Bulbule Park area in all direction.

Basin Area: Cropland and Latikoili-Mangalgadhi-Birendranagar highway in west; Cropland in east; Gandaki Tol and Birendranagar-Padamour highway in south; Cropland in north.

Management RESPONSIBILITY

Birendranagar Municipality.

Wetlands type

Freshwater/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp.: 37.4° C (April). Avg. Min.: 13° C. Avg. Rainfall: 3710 mm/yr (DDC Profile).

Area

Core area: 0.7 ha; Avg. Length: 200 m; Avg. Width: 50m; Avg. Depth: 3 m; Max-Min Surface Water Level: 4–1 m; Basin Area: 100 ha.

Water Volume

Volume: N/A; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp: 27.0 C, pH: 6; DO: 5.2 mg/l; Transparency: 1 m.

Soil feature

Grey color; Sandy silt & clay texture.

Shocks/vulnerability

N/A.

Major aquatic plants

*Oryza rufipogon* (LN: Jungalidhan; EN: Wildrice); *Hygrorhiza aristata* (LN: Jangalijhan; EN: Asian Watergrass); *Leersia hexandra* (LN: Haadeghas; EN: Swamp Rice Grass); *Eichhornea crassipes* (LN: Jalkumbh; EN: Water Hyacinth); *Nelumbo nucifera* (LN: Kamal; EN: Lotus); *Vallisnaria spiralis* (LN: Panikhar; EN: Tapegrass); *Nymphaea indica* (LN: Kumudini; EN: Water Snowflake);

Major plants in basin

*Bombax ceiba* (LN: Simal; HT: Tr; LU: Tm); *Dalbergia sissoo* (LN: Sisooo; HT: Tr; LU: Tm); *Shorea robusta* (LN: Sal; HT: Tr; LU: Tm); *Ipomea carnea* (LN: Behaya; EN: Morning Glory).

Fish

*Labeo rohita* (LN: Rahu; LU: Meat); *Catla catla* (LN: Bhaykur; LU: Meat); *Puntias sarona* (LN: Kande; LU: Meat); *Puntias sticto* (LN: Bhte; LU: Meat);

Herpetofauna	<i>Rana spp.</i> (LN: Bhyaguto; EN: Frog); <i>Ptyas mucosa</i> (LN: Dhaman; EN: Ratsnake); <i>Calotes versicolor</i> (LN: Cheparo; EN: Common Lizard); <i>Bufo andersoni</i> (LN: Bhyaguto; EN: Toad).
Bird	<i>Alcedo atthis</i> (LN: Matikore; EN: Kingfisher); <i>Bubulcus ibis</i> (LN: Bakulla; EN: Cattle Egret); <i>Casmerodius albus</i> (LN: Thulosebakulla; EN: Great Egret); <i>Egretta garzetta</i> (LN: Sano Setobakulla; EN: Little Egret); <i>Sarkidiornis clangula</i> (LN: Nakata; EN: Comb Duck); <i>Tyto alba</i> (LN: Latokosero; EN: Owl); <i>Ardeola grayii</i> (LN: Aaskotebakulla; EN: Pond Herons); <i>Accipiter spp</i> (LN: Baaz; EN: Hawk).
Mammals	<i>Funambulus spp</i> (LN: Lokharke; EN: Squirrel).
Invasive alien species	<u>Plant</u> : <i>Eichhornea crassipes</i> (LN: Jalkumbhi; EN: Water Hyacinth); <i>Ipomea carnea</i> (LN: Behaya; EN: Morning Glory).
Endemic plant/animal	None
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Mangalgadhi; 0.1 km from lake; Main Trail: Kohalpur-Surkhet-Padampur Road; 0.5 km from lake to the main trail.
Land use	Bulbule Park (60%); Settlement (30%); Wetland (2%); Others (8%).
Demography	Population: About 5000; Male: 2600; Female: 2400; Ethnicity: Hindu 95 %; Others 5%; Major Religion: Hindu.
Jurisdiction/ownership	None.
Wetlands dependent community	None
Traditional production system	None.
Traditional water use practices	NA.
Cultural record	None.
Genesis/origin of lake	Groundwater source sprout in bubble form so lake entitled as BulbuleTaal.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	None.
Cultural services	Visitors for picnic; Regular commuters for recreational walk.
<b>E. Restoration/Management</b>	
Structural management	Park structure; Picnic spots.
None-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	>5000 tourists visit a year; Good local transportation facilities; Good hotels, bank, security and market center in Birendranagar; Famous lake of early time; High tourism potential; Needs restoration structures, tourism structures and promotional activities.
<b>G. Lake condition</b>	Degraded.

## Annex-56: Inventory of lakes in Achham district

### 1. Batula Tal

Code: P7-D1-001

Toposheet no: 2981 14B

Date of inventory: May 18, 2016



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat: 29.22937° N; Lon: 081.46633° E; Alt: 2,406 masl.  
Geographical position Mahabharat Range.

Administrative feature

FWDR; Achham district; Ramaroshan VDC; Ward-9; Ramaroshan.

Boundary

(Current: Ramosharan Rural Municipality; Ward no. 5)

Core Area: Forest in all directions.

Basin Area: Forest in all directions; Mujeda-Rupsa trail in south.

Management responsibility

None.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg.Max: Temp: 30oC (Jun/July); Avg. Min: 5oC(Dec);  
Rainfall: 1891mm  
/yr. (District profile Achhamby Rural Access Program;  
2011).

Area

Core Area: 3.2 ha; Avg. Length: 130 m; Avg. Width: 90 m;  
Avg. Depth: 8 m; Max-Min Surface Water Level: 9m-7 m;  
Basin Area: 249.8 ha.

Water Volume

Peak Period: 2,989,046 ltr; Dry period: 2,324,813 ltr; Inlet:  
One; Outlet: One.

Water quality

Physicochemical parameter: Temp.: 20.7oC, pH: 8.5; DO:  
4.6mg/l; Transparency: 0.8 m.

Soil feature

Dark color; Clay loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Cynodon dactylon* (LN: Dubo; EN; HT: Ff; LU: None);  
*Pyruspersia* (LN: Pihre Jhar; HT: Ff; LU: None);  
*Equisetum arvense* (LN: Talche Jhar; EN: LU: None).

Major plants in basin

*Rhododendron arboretum* (LN: Gurans; HT: Tr; LU: Ful);  
*Quercus semecarpifolia* (LN: Khasru; HT: Tr; LU: Tm).

Fish

*Schizothorax* sps (LN: Asala; LU: Meat).

Herpetofauna

*Amolops marmoratus* (LN: Hariyo Bhyaguto; EN: Marbled  
CascadeFrog); *Bufo himalayanus* (LN: Lekali Bhyagoto; EN:  
Toad); *Laudakia tuberculata* (LN: Dunge Chheparo; EN:  
Himalayan Rock Lizard); *Asymblepharus sikimmensis* (LN:  
Chikane Girget; EN; Sikkim Skink).



Birds	<i>Tragopansatyra</i> (LN;Monal; EN: SatyrTragopan); <i>Pucrasiamarcolopha</i> (LN: Funkrans; EN: Koklass Pheasant); <i>Lophophorus impejanus</i> (LN: Danphe; EN: Himalayan Monal); <i>Lophura leucomelanos</i> (LN: Kalij; EN: Kalij Pheasantl); <i>Anas platyrhynchos</i> (LN: Jalhans; EN: Mallard); <i>Gypaetus barbatus</i> (LN: Hardfor Gidhdha; EN: Bearded Vulture); <i>Turdus bouboul</i> (LN: Madan Chanchar; EN:Grey/winged Blackbird); <i>Lanius schach</i> (LN: Bhadrai; EN: Long/tailed shrike); <i>Erocissa flavirostris</i> (LN:Sunthode Lampuchhre; EN: Yello/billed Blue Magpie); <i>Heterophasia capistrata</i> (LN: Kerra; EN: Rufous Sibia); <i>Motacilla alva</i> (LN: Seti Tiktike; EN: White Wagtail).
Mammals	<i>Ochotona himalayana</i> (LN: Thute Muso; EN: Himalayan Pika); <i>Lepus nigricollis</i> (LN: Ban Kharayo; EN: Indian Hare); <i>Panthera pardus</i> (LN: Chituwa; EN: Common Leopard); <i>Canis aureus</i> (LN: Shyal; EN: Golden Jackal); <i>Lutra lutra</i> (LN: Kalo Oont; EN: Eurasian Otter); <i>Martes flavigula</i> (LN: Malsapro; EN; Yellowthroated Marten); <i>Semnopithecus schistaceus</i> (LN: Guna; EN: Nepal Grey Langur); <i>Sus scrofa</i> (LN: Bandel; EN: Eurasian Wildboar); <i>Moschus crysogaster</i> (LN: Kasturi; EN; Apine Muskdeer); <i>Muntiacus muntjack</i> (LN: Ratuwa; EN; Barking Deer); <i>Hemitragus jemlahicus</i> (LN: Jharal; EN; Himalayan Tahr); <i>Naemorhedus goral</i> (LN: Ghoral; EN: Common Ghoral).
Invasive alien species	None.
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Dallena; 1km from the lake; Main Trail: Mangalsen to Ramaroson road; 300 m from lake to the main trail.
Land use	Forestland (70%); Grassland (5%); Settlement (2%); Wetlands (20%); Others (3%).
Demography	Population: 4399; Male: 2109; Female: 2290; HHs: 824; Ethnicity:
Brahmin/Chhetri (20%); Janajati	(70%); Dalit (5%); Other (5%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community None.
Livestock at basin	Recently Banned for Livestock. Traditional production system None.
Traditional water use practices	None. Cultural record None.
Genesis/origin of lake	None.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fodder; Medicinal plants; Timber; Irrigation.
Cultural services	Aesthetic; Recreation; Educational.
<b>E. Restoration/Management</b>	
Structural management	Wall around the lake.
Non-structural management	Formal restriction for Livestock.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	>5,000 annual visitorsr; Few hotels in lake site; Motarable road to Ramaroshan from Mangalsen; Moderate tourism potential. Needs promotional activities and good roads.
<b>G. Lake condition</b>	
	Good.

## 2. Geraya Bonda

Code: P7-D1-002

Toposheet no: 2981 14B

Date of inventory: May 31, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat: 29.22208oN; Lon: 081.427490o E; Alt: 1,541 masl. Geographical position Mahabharat Range.
Administrative feature	FWDR; Accham district; Ramaroshan VDC; Ward-7; Geraya Bonda.  (Current: Ramosharan Rural Municipality; Ward no. 5)
Boundary	Core Area: Forest in all directions. Basin Area: Suni Ban in west; Geraya in East; Kadh in South, Hade Kadh in North.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp: 30oC (Jun/July); Avg. Min: 5oC(Dec); Rainfall: 1891 mm/yr. (District Profile Achham, 2011).
Area	Core Area: 2.2 ha; Avg. Length: 80 m; Avg. Width: 40 m; Avg. Depth: 4 m; Max-Min Surface Water Level: 6 m-2 m; Basin Area: 238.6ha.
Water Volume	Peak Period: 851, 580 ltr; Dry period: 119, 221 ltr; Inlet: Thulo Khola & Sano Khola; Outlet: Geraya Khola.
Water quality	Physicochemical parameter: Temp.: 24.3oC, pH:7.1; DO:5.4mg/l; Transparency: 0.4m.
Soil feature	Grey color; Loamy sand texture.
Shocks/vulnerability	Water volume decreasing, Landslide and soil deposition. Major aquatic plants Core Area: <i>Pyrus persia</i> (LN: <i>Pirejhar</i> ; HT: Hr; LU: None); <i>Acoruscalamus</i> (LN: Bojho; HT: Hr; LU: Med); <i>Salix</i> sps (LN: Bains; HT: Tr; LU: Fod).
Major plants in basin	Rhododendron sps (LN: Gurans; HT: Tr; LU: Med); <i>Myrica</i> sps (LN: Kafal; HT: Tr; LU: Fruit, Fod); <i>Alnus nepalensis</i> (LN: Uttis; HT: Tr; LU: Tm); <i>Pinus roxburgii</i> (LN: Sallo; HT: Tr; LU: Tm); <i>Pyrus pashia</i> (LN: Mayal; HT: Tr; LU: Tm); <i>Prunus cerasoides</i> (LN: Payun; HT: Tr; LU: Rel)
Fish	<i>Garra gotyla</i> (LN: Gadela; LU: Meat).
Herpetofauna	<i>Bufo melonostictus</i> (LN: Khashre Bhyaguto; EN: Black/spined Toad); <i>Euphlyctis cyanophlyctis</i> (LN: Tiktike Paha; EN: Skittering Frog); <i>Calotes versicolor</i> (LN: Chheparo; EN: Garden Lizard); <i>Laudakia tuberculata</i> (LN: Paththar ChatuwaH; EN: Himalayan Rock Lizard); <i>Ptyas mucosa</i> (LN: Sarpa; EN: Asiatic Rat Snake).

Birds	<i>Francolinus francolinus</i> (LN: Kalo Titra; EN: Black Francolin); <i>Lophura leucomelanus</i> (LN: Kalij; EN: Kalij Pheasant); <i>Megalaimavirens</i> (LN: Nyauli; EN: Great Barbet); <i>Eudynamysscolopacea</i> (LN: Koeli; EN: Asian Koel); <i>Curvus macrorhynchos</i> (LN; Kaag; EN: Large/billed Crow); <i>Myophonus caeruleus</i> (LN: Kalche; EN: Blue Whistling Thrust); <i>Parus major</i> (LN: Chichilkote; EN: Great tit).
Mammals	<i>Lepus nigricollis</i> (LN: Bankharayo; EN: Indian Hare); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Canis aureus</i> (LN: Shyal; EN: Golden Jackal); <i>Ursus thibetanus</i> (LN: Kalo Bhalu; EN: Asiatic Black Bear); <i>Martes flavigula</i> (LN: Malsapro; EN: Yellow throated Marten).
Invasive alien species	<i>Ageratina adenophora</i> (LN: Banmara; EN: Crofton Weed) Endemic plant/animal None.

### C. Socio-Economy at Basin

Nearby settlement	Tallo Patan; 1km from lake; Main Trail: Tallosaine road; 1km from lake to the main trail.
Land use	Forestland (75%); Grassland (1%); Shrubland (21%); Cultivation (3%).
Demography	Population: 2498; Male: NA; Female: NA; HHs: 504; Ethnicity: Brahmin/Chhetri (20%); Janajati (70%); Dalit (5%); Other (5%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community None. Livestock at basin >300.
Traditional production system	Terrace farming.
Traditional water use practices	Religious/ritual pond; Community pond; Local irrigation system Cultural record JalpaDevi Temple at basin.
Genesis/origin of lake	NA.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants; Irrigation, Domestic water supply, Timber supply, Fuel wood supply.
Cultural services	Aesthetic; Religious; Educational; Hile Paith Ram (Fair) during Baisakh, Magh and Jestha purnima.

### E. Restoration/Management

Structural management	Dam made with the support of DDC. Non-structural management None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

>5000annual visitors; Motarable road upto Saini Bazar. Moderate tourism potential; Needs promotional activities and transportation; Few good hotels in Sainibazar.

### G. Lake condition

Degrading.

### 3. Jingale Tal

Code: P7-D1-003

Toposheet no: 2981 14B

Date of inventory: May 19, 2016



#### A. General Feature

Conservation status	None.
Geographical coordination	Lat: 29.232040N; Lon: 081.468420E; Alt: 2,406 masl. Geographical position Mahabharat Range.
Administrative feature	FWDR; Achham district; Ramaroshan VDC; Ward-9; Ramaroshan.  (Current: Ramosharan Rural Municipality; Ward no. 5)
Boundary	Core Area: Forest in all directions.  Basin Area: Mujeda-Dhanesalla-Ramaroshan trail in west; Dense mixed forest in east and north; Mujeda-Rupsa trail in south.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	Avg. Max: Temp: 30oC (Jun/July); Avg. Min: 5oC (Dec); Rainfall: 1891mm/ yr. (District profile Acchamby Rural Access Program, 2011).
Area	Core Area: 1.1 ha; Avg. Length: 300 m; Avg. Width: 75 m; Avg. Depth: 12 m; Max-Min Surface Water Level:13m-11 m; Basin Area:118.5 ha.
Water Volume	Peak Period: 11,070,540 ltr; Dry period: 8,742,888 ltr; Inlet: One; Outlet: One.
Water quality	Physicochemical parameter: Temp: 19oC, pH: 8.6; DO: 5.6mg/l; Transparency: 0.8 m.
Soil feature	Dark color; Clay loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: <i>Nelumbo nucifera</i> (LN: Nilo Kamal; EN: Blue lotus; HT: Ff; LU: None); <i>Equisetum arvense</i> (LN: Talche Jhar; EN; LU: None); <i>Rumex nepalensis</i> (LN: Halhale; Ht: Hr; LU: Med, Fd); <i>Ceratophyllum submersum</i> (LN: Panijhar; HT: S m; LU: None); <i>Pyruspersia</i> (LN: Pihre Jhar; HT: Ff; LU: None);
Major plants in basin	<i>Rhododendron arboretum</i> (LN: Gurans; HT: Tr; LU: Ful); <i>Quercussemecarpifolia</i> (LN: Khasru; HT: Tr; LU: Tm); <i>Lyonia villosa</i> (LN: Angeri; HT: Tr; LU: Med); <i>Symplocos</i>

	<i>ramosissima</i> (LN: Dabdabe; HT: Hr; LU: Med); <i>Pinus wallichiana</i> (LN: Gobre Sallo; HT: Tr, LU: Tm); <i>Pyracantha crenulata</i> (LN: Ghangaru; HT: Tr; LU: Fr); <i>Berberis aristata</i> (LN: Chutro; HT: Tr; LU: Med).
Fish	Schizothorax sps (LN: Asala; LU; Meat).
Herpetofauna	<i>Amolops marmoratus</i> (LN: Hariyo Bhyaguto; EN: Marbled Cascade Frog); <i>Bufo himalayanus</i> (LN: Lekali Bhyagoto; EN: Toad); <i>Laudakia tuberculata</i> (LN: Dunge Chheparo; EN: Himalayan Rock Lizard); <i>Asymblepharus sikimensis</i> (LN: Chikane Girget; EN; Sikkim Skink).
Birds	<i>Tragopan satyra</i> (LN; Monal; EN: Satyr Tragopan); <i>Pucrasia marcolopha</i> (LN: Funkrans; EN: Koklass Pheasant); <i>Lophophoru simpejanus</i> (LN: Danphe; EN: Himalayan Monal); <i>Lophura leucomelanos</i> (LN: Kalij; EN: Kalij Pheasant!); <i>Anas platyrhynchos</i> (LN: Jalhans; EN: Mallard); <i>Gypaetus barbatus</i> (LN: Hardfor Gidhdha; EN: Bearded Vulture); <i>Turdus boulboul</i> (LN: Madan Chanchar; EN: Grey/winged Blackbird); <i>Lanius schach</i> (LN: Bhadrai; EN: Long/tailed shrike); <i>Erocissa flavirostris</i> (LN:Sunthode Lampuchhre; EN: Yello/billed Blue Magpie); <i>Heterophasiacapistrata</i> (LN: Kerra; EN: Rufous Sibia); <i>Motacilla alva</i> (LN: Seti Tiktike; EN: White Wagtail).
Mammals	<i>Ochotona himalayana</i> (LN:Thute Muso; EN:Himalayan Pika); <i>Lepus nigricollis</i> (LN:Ban Kharayo; EN:Indian Hare); <i>Pantherapardus</i> (LN:Chituwa; EN:Common Leopard); <i>Canis aureus</i> (LN:Shyal; EN:Golden Jackal); <i>Lutra lutra</i> (LN:Kalo Oont; EN:Eurasian Otter); <i>Martes flavigula</i> (LN: Malsapro; EN; Yello/throated Marten); <i>Semnopithecus schistaceus</i> (LN:Guna; EN:Nepal Grey Langur); <i>Sus scrofa</i> (LN: Bandel; EN: Eurasian Wildboar); <i>Moschus crysogaster</i> (LN: Kasturi; EN; Apine Muskdeer); <i>Muntiacusmuntjack</i> (LN: Ratuwa; EN; Barking Deer); <i>Hemitragus jemlahicus</i> (LN: Jharal; EN; Himalayan Tahr); <i>Naemoredus goral</i> (LN: Ghoral; EN: Common Ghoral).
Invasive alien species	<i>Ageratina adenophora</i> (LN: Banmara; EN: Crofton Weed). Endemic plant/animal None.

### C. Socio-Economy at Basin

Nearby settlement	Dallena; 1km from lake; Main Trail: Mangalsen- Ramarosan road; 500m from lake to the main trail.
Land use	Forestland (70%); Grassland (5%); Settlement (2%); Wetlands (20%); Others (3%).
Demography	Population: 4399; Male: 2109; Female: 2290; HHs: 824; Ethnicity: Brahmin/Chhetri (20%); Janajati (70%); Dalit (5%); Other (5%). Major Religion: Hinduism/Buddhism (CBS 2011).
Jurisdiction/ownership	State. Wetlands dependent community None.
Livestock at basin	Recently Banned for Livestocks grazing. Traditional production system None.
Traditional water use practices	None. Cultural record None.

Genesis/origin of lake                      None.

**D. Ecosystem Goods/Services**

Provisional services                      Fodder; Medicinal plants; Timber.

Cultural services                      Aesthetic; Recreation; Educational.

**E. Restoration/Management**

Structural management                      None.

Non-structural management                      Formal restriction for Livestock.

Conservation plan                      None.

Monitoring plan                      None.

**F. Tourism information**

>5,000 visitors/yr; Few hotels in lake site; Motarable road to Ramaroshan form Mangalsen; Moderate tourism potential; Needs promotional activities and roads.

**G. Lake condition**

Good.

#### 4. Lamadaya Tal

Code: P7-D1-004

Toposheet no: 2981 14B

Date of inventory: May 19, 2016



##### A. General Feature

Conservation status	None.
Geographical coordination	Lat: 29.23760°N; Lon: 81.48155°E; Alt: 2,522 masl. Geographical position Mahabharat Range.
Administrative feature	FWDR; Achham district; Ramaroshan VDC; Ward-9; Ramaroshan. (Current: Ramosharan Rural Municipality; Ward no. 5)
Boundary	Core Area: Forest in all directions. Basin Area: Forest in all direction; Mujeda-Rupsa trail in south.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

##### B. Ecological Feature

Climatic feature	Avg. Max: Temp:30oC (Jun/July); Avg. Min:5oC (Dec); Rainfall: 1891mm/yr. (District profile Achhamby Rural Access Program, 2011).
Area	Core Area: 21.5 ha; Avg. Length: 100 m; Avg. Width:40 m; Avg. Depth: 6 m; Max-Min Surface Water Level: 7m-5 m; Basin Area: 249.8 ha.
Water Volume	Peak Period: 794,808 ltr; Dry period: 567,728 ltr; Inlet: None; Outlet: None.
Water quality	Physicochemical parameter: Temp.:18.5oC, pH:9.3; DO:5.7mg/l; Transparency: 0.5 m.
Soil feature	Dark color; Clay loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: Cynodon dactylon (LN: Dubo; EN; HT: Ff; LU: None); Nelumbonucifera; (LN: Ekpate, Kamal; HT: Ff; LU: None); Pyruspersia (LN: Pirejhar; HT: Hr; LU: None)
Major plants in basin	Rhododendron companulatum (LN: Gurans; HT: Tr; LU: Ful); Quercus semecarpifolia (LN: Khasru; HT: Tr; LU: Tm); <i>Lyoniavillosa</i> (LN: Angeri; HT: Tr; LU: Bed); <i>Symplocosramosissima</i> (LN: Dabdabe; HT: Hr; LU: Bed); <i>Pinus wallichiana</i> (LN: Gobre Sallo; HT: Tr, LU: Tm); <i>Pyracantha crenulata</i> (LN: Ghangaru; HT: Tr; LU: Fr); <i>Berberis aristata</i> (LN: Chutro; HT: Tr; LU: Med).

Fish	Schizothorax sps (LN: Asala; LU; Meat).
Herpetofauna	Amolops marmoratus (LN: Hariyo Bhyaguto; EN: Marbled Cascade Frog); Bufo himalayanus (LN: Lekali Bhyagoto; EN: Toad); Laudakia tuberculata (LN: Dunge Chheparo; EN: Himalayan Rock Lizard); Asymblepharus sikimensis (LN: Chikane Girget; EN; Sikkim Skink).
Birds	<i>Tragopan satyra</i> (LN; Monal; EN: Satyr Tragopan); <i>Pucrasia maculosa</i> (LN: Funkrans; EN: Koklass Pheasant); <i>Lophophorus impejanus</i> (LN: Danphe; EN: Himalayan Monal); <i>Lophura leucomelanos</i> (LN: Kalij; EN: Kalij Pheasant); <i>Anas platyrhynchos</i> (LN: Jalhans; EN: Mallard); <i>Gypaetus barbatus</i> (LN: Hardfor Gidhdha; EN: Bearded Vulture); <i>Turdus boulboul</i> (LN: Madan Chanchar; EN: Grey/winged Blackbird); <i>Lanius schach</i> (LN: Bhadrail; EN: Long/tailed shrike); <i>Erocissa flavirostris</i> (LN: Sunthode Lampuchhre; EN: Yello/billed Blue Magpie); <i>Heterophasiacapistrata</i> (LN: Kerra; EN: Rufous Sibia); <i>Motacilla alba</i> (LN: Seti Tiktike; EN: White Wagtail).
Mammals	<i>Ochotona himalayana</i> (LN: Thute Muso; EN: Himalayan Pika); <i>Lepus nigricollis</i> (LN: Ban Kharayo; EN: Indian Hare); <i>Panthera pardus</i> (LN: Chituwa; EN: Common Leopard); <i>Canis aureus</i> (LN: Shyal; EN: Golden Jackal); <i>Lutra lutra</i> (LN: Kalo Oont; EN: Eurasian Otter); <i>Martes flavigula</i> (LN: Malsapro; EN: Yello/throated Marten); <i>Semnopithecus schistaceus</i> (LN: Guna; EN: Nepal Grey Langur); <i>Sus scrofa</i> (LN: Bandel; EN: Eurasian Wildboar); <i>Moschuscrysogaster</i> (LN: Kasturi; EN: Apine Muskdeer); <i>Muntiacus muntjack</i> (LN: Ratuwa; EN: Barking Deer); <i>Hemitragus jemlahicus</i> (LN: Jharal; EN: Himalayan Tahr); <i>Naemorhedus goral</i> (LN: Ghoral; EN: Common Ghoral).
Invasive alien species	<i>Ageratina adenophora</i> (LN: Banmara; EN: Crofton Weed). Endemic plant/animal None.

### C. Socio-Economy at Basin

Nearby settlement	Dallena; 1km from lake; Main trail: Mangalsen- Ramarosan road; 500m from lake to the main trail.
Land use	Forestland (88%); Grassland (0.24%); Shrubland (7%); Cultivation (4%); Sand (0.5%).
Demography	Population: 4399; Male: 2109; Female: 2290; HHs: 824; Ethnicity: Brahmin/Chhetri (20%); Janajati (70%); Dalit (5%); Other (5%). Major Religion: Hinduism/Buddhism (CBS 2011).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	Recently Banned for Livestock.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.



#### **D. Ecosystem Goods/Services**

Provisional services Fodder; Medicinal plants; Timber; Irrigation.  
Cultural services Aesthetic; Recreation; Educational.

#### **E. Restoration/Management**

Structural management None.  
Non-structural management Formal restriction for Livestock.  
Conservation plan None.  
Monitoring plan None.

#### **F. Tourism information**

>5,000 visitors/yr; Few hotels in lake site; Motorable road to Ramaroshan from Mangalsen; Moderate tourism potential; Needs promotional activities and roads.

#### **G. Lake condition**

Good.

## 5. Lisedali Tal

Code: P7-D1-005

Toposheet no:2981 10

Date of inventory: May 18, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat: 29.23536°N; Lon:081.48009°E; Alt: 2,516 masl. Geographical position Mahabharat Range.
Administrative feature	FWDR; Achham district; Ramaroshan VDC; Ward-9; Ramaroshan.  (Current: Ramosharan Rural Municipality; Ward no. 5)
Boundary	Core Area: Forest in all directions. Basin Area: Forest in all directions.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp: 30°C (Jun/July); Avg. Min: 5°C (Dec); Rainfall: 1891mm/yr. (District profile Achhamby Rural Access Program, 2011).
Area	Core Area: 2.6 ha; Avg. Length: 50 m; Avg. Width:40 m; Avg. Depth: 5m; Max-Min Surface Water Level:6m-4 m; Basin Area: 118.5 ha.
Water Volume	Peak Period: 340,632 ltr; Dry period: 227,088 ltr; Inlet: Two; Outlet: One.
Water quality	Physicochemical parameter: Temp.: 19°C, pH: 9.2; DO: 5.5mg/l; Transparency: 0.4 m.
Soil feature	Dark color; Clay loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: <i>Equisetum arvense</i> (LN: Talche Jhar; HT: Hr; LU: Fodder); <i>Cynodon dactylon</i> (LN: Dubo; EN; HT: Ff; LU: None); <i>Nelumbo nucifera</i> ; (LN: Ekpate, Kamal; HT: Ff; LU: None); <i>Pyruspersia</i> (LN: Pirejhar; HT: Hr; LU: None).
Major plants in basin	<i>Rhododendron arboretum</i> (LN: Laligurans; HT: Tr; LU: Med, fuel); <i>Rhododendron companulatum</i> (LN: Setogurans; HT: Tr; LU: Med, Ful); <i>Quercussemecarpifolia</i> (LN: Khasru; HT: Tr; LU: Tm); <i>Lyonia villosa</i> (LN: Angeri; HT: Tr; LU: Bed); <i>Symplocosramosissima</i> (LN: Dabdabe; HT: Hr; LU: Bed); <i>Pinus wallichiana</i> (LN: Gobre Sallo; HT: Tr, LU: Tm);

	Pyracantha crenulata (LN: Ghangaru; HT: Tr; LU: Fr); Berberis aristata (LN: Chutro; HT: Tr; LU: Med).
Fish	Schizothorax sps (LN: Asala; LU; Meat).
Herpetofauna	<i>Amolops marmoratus</i> (LN: Hariyo Bhyaguto; EN: Marbled CascadeFrog); <i>Bufo himalayanus</i> (LN: Lekali Bhyagoto; EN: Toad); <i>Laudakia tuberculata</i> (LN: Dunge Chheparo; EN: Himalayan Rock Lizard); <i>Asymblepharus sikimmensis</i> (LN: Chikane Girget; EN; Sikkim Skink).
Birds	Tragopan <i>satyra</i> (LN; Monal; EN: Satyr Tragopan); <i>Pucrasia marcolopha</i> (LN: Funkrans; EN: Koklass Pheasant); <i>Lophophoru simpejanus</i> (LN: Danphe; EN: Himalayan Monal); <i>Lophura leucomelanos</i> (LN: Kalij; EN: Kalij Pheasant); <i>Anas platyrhynchos</i> (LN: Jalhans; EN: Mallard); <i>Gypaetus barbatus</i> (LN: Hardfor Gidhdha; EN: Bearded Vulture); <i>Turdus boulboul</i> (LN: Madan Chanchar; EN: Grey/winged Blackbird); <i>Lanius schach</i> (LN: Bhadrai; EN: Long/tailed shrike); <i>Erocissa flavirostris</i> (LN: Sunthode Lampuchhre; EN: Yello/billed Blue Magpie); <i>Heterophasia capistrata</i> (LN: Kerra; EN: <i>Rufous</i> Sibia); <i>Motacilla alva</i> (LN: Seti Tiktike; EN: White Wagtail).
Mammals	<i>Ochotona himalayana</i> (LN: Thute Muso; EN: Himalayan Pika); <i>Lepus nigricollis</i> (LN: Ban Kharayo; EN: Indian Hare); <i>Panthera pardus</i> (LN: Chituwa; EN: Common Leopard); <i>Canis aureus</i> (LN: Shyal; EN: Golden Jackal); <i>Lutra lutra</i> (LN: Kalo Oont; EN: Eurasian Otter); <i>Martes flavigula</i> (LN: Malsapro; EN: Yello/throated Marten); <i>Semnopithecus schistaceus</i> (LN: Guna; EN: Nepal Grey Langur); <i>Sus scrofa</i> (LN: Bandel; EN: Eurasian Wildboar); <i>Moschus crysogaster</i> (LN: Kasturi; EN: Apine Muskdeer); <i>Muntiacus muntjack</i> (LN: Ratuwa; EN: Barking Deer); <i>Hemitragus jemlahicus</i> (LN: Jharal; EN: Himalayan Tahr); <i>Naemorhedus goral</i> (LN: Ghoral; EN: Common Ghoral).
Invasive alien species	<i>Ageratina adenophora</i> (LN: Banmara; EN: Crofton Weed). Endemic plant/animal None.

### C. Socio-Economy at Basin

Nearby settlement	Dallena; 1km from lake; Mangalsen- Ramaroson road; 500m fromlake to the main trail.
Land use	Forestland (92.51%); Grassland (0.26%); Shrubland (0.79%); Others (0.1%).
Demography	Population: 4399; Male: 2109; Female: 2290; HHs: 824; Ethnicity: Brahmin / Chhetri (20%); Janajati (70%); Dalit (5%); Other (5%). Major Religion: Hinduism/Buddhism (CBS 2011).
Jurisdiction/ownership	State. Wetlands dependent community None.
Livestock at basin	Recently Banned for Livestock.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

#### **D. Ecosystem Goods/Services**

Provisional services Fodder; Medicinal plants; Timber.  
Cultural services Aesthetic; Recreation; Educational.

#### **E. Restoration/Management**

Structural management None.  
Non-structural management Formal restriction for Livestock.  
Conservation plan None.  
Monitoring plan None.

#### **F. Tourism information**

>5,000 visitors/yr; Few hotels in lake site; Motorable road to Ramaroshan from Mangalsen; Moderate tourism potential; Needs promotional activities and roads.

#### **G. Lake condition**

Good.

## 6. Mathillo Dhaune Tal

Code: P7-D1-006

Toposheet no: 2981 14B

Date of inventory: May 18, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat: 29.23048°N; Lon: 081.46102°E; Alt: 2,316 masl. Geographical position Mahabharat Range.
Administrative feature	FWDR; Achham district; Ramaroshan VDC; Ward-9; Ramaroshan.  (Current: Ramosharan Rural Municipality; Ward no. 5)
Boundary	Core Area: Forest in all directions. Basin Area: Forest in all directions.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp:30°C (Jun/July); Avg. Min:5°C (Dec); Rainfall: 1891mm/yr. (District profile Achhamby Rural Access Program, 2011).
Area	Core Area: 1.63 ha; Avg. Length: 50 m; Avg. Width: 30 m; Avg. Depth: 3.6 m; Max-Min Surface Water Level: 5.5m-1.8 m; Basin Area: 535 ha.
Water Volume	NA.
Water quality	Physicochemical parameter: Temp.: 16°C, pH: 8.4; DO: 5.3mg/l; Transparency: 0.4 m.
Soil feature	Grey color; Loamy sand texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: Cynodon dactylon (LN: Dubo; EN; HT: Ff; LU: None).
Major plants in basin	Rhododendron Companulatum (LN: Gurans; HT: Tr; LU: Ful); Quercussemecarpifolia (LN: Khasru; HT: Tr; LU: Tm); Lyoniavillosa (LN: Angeri; HT: Tr; LU: Bed); Symplocos ramosissima (LN: Dabdabe; HT: Hr; LU: Bed); Pinus wallichiana (LN: Gobre Sallo; HT: Tr, LU: Tm); Pyracantha crenulata (LN: Ghangaru; HT: Tr; LU: Fr); Berberis aristata (LN: Chutro; HT: Tr; LU: Med).
Fish	Garra gotyla (LN: Gadela machha; LU: Meat).

Herpetofauna	Amolops marmoratus (LN: Hariyo Bhyaguto; EN: Marbled CascadeFrog); Bufo <i>himalayanus</i> (LN: Lekali Bhyagoto; EN: Toad); <i>Laudakia tuberculata</i> (LN: Dunge Chheparo; EN: Himalayan Rock Lizard); <i>Asymblepharus sikimmensis</i> (LN: Chikane Girget; EN; Sikkim Skink).
Birds	<i>Lophophoru simpejanus</i> (LN:Danphe; EN:Himalayan Monal); <i>Lophura leucomelanos</i> (LN:Kalij; EN:Kalij Pheasantl); <i>Anas platyrhynchos</i> (LN:Jalhans; EN:Mallard); <i>Gypaetus barbatus</i> (LN:Hardfor Gidhdha; EN:Bearded Vulture); <i>Turdus boulboul</i> (LN:Madan Chanchar; EN:Grey/winged Blackbird); <i>Lanius schach</i> (LN:Bhadrai; EN:Long/tailed shrike); <i>Erocissa flavirostris</i> (LN:Sunthode Lampuchhre; EN:Yello/billed Blue Magpie); <i>Heterophasia capistrata</i> (LN:Kerra; EN: <i>Rufous</i> Sibia); <i>Motacilla alva</i> (LN:Seti Tiktike; EN:White Wagtail).
Mammals	<i>Lepus nigricollis</i> (LN: Ban Kharayo; EN: Indian Hare); <i>Panthera pardus</i> (LN: Chituwa; EN: Common Leopard); <i>Canis aureus</i> (LN: Shyal; EN: Golden Jackal); <i>Lutra lutra</i> (LN: Kalo Oont; EN: Eurasian Otter); <i>Martes flavigula</i> (LN: Malsapro; EN; Yello/throated Marten); <i>Sus scrofa</i> (LN: Bandel; EN: Eurasian Wildboar); <i>Moschus crysogaster</i> (LN: Kasturi; EN; Apine Muskdeer); <i>Muntiacus muntjack</i> (LN: Ratuwa; EN; Barking Deer); <i>Hemitragus jemlahicus</i> (LN: Jharal; EN; Himalayan Tahr);
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Dallena; 1km from lake; Mangalsen-Ramarosan road; 600m from lake to the main trail.
Land use	Forestland (70%); Grassland (5%); Settlement (2%); Wetlands (20%); Others (3%).
Demography	Population:4399; Male:2109; Female:2290; HHS:824; Ethnicity: Brahmin /Chhetri (20%); Janajati (70%); Dalit (5%); Other (5%). Major Religion: Hinduism/Buddhism (CBS 2011).
Jurisdiction/ownership	State. Wetlands dependent community None.
Livestock at basin	Recently Banned for Livestocks.
Traditional production system	None.
Traditional water use practices	Religious/ritual pond.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants; Timber; Irrigation.
Cultural services	Aesthetic; Recreation; Educational.

### E. Restoration/Management

Structural management	None.
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Non-structural management

Formal restriction for Livestock.

Conservation plan

None.

Monitoring plan

None.

**F. Tourism information**

>5,000 visitors/yr; Few hotels in lake site; Motarable road to Ramaroshan form Mangalsen; Moderate tourism potential; Needs promotional activities and roads.

**G. Lake condition**

Degrading.

## 7. Tallo Dhaune Tal

Code: P7-D1-007

Toposheet no: 2981 14B

Date of inventory: May 18, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:29.22903oN; Lon:081.45712oE; Alt: 2,299 masl.
Geographical position	Mahabharat Range.
Administrative feature	FWDR; Achham district; Ramaroshan VDC; Ward-9; Ramaroshan. (Current: Ramosharan Rural Municipality; Ward no. 5)
Boundary	Core Area: Forest in all directions. Basin Area: Forest in west and north; Cultivation land in east; Mujeda- Rupsa trail in south.
Management responsibility	Community.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp: 30oC (Jun/July); Avg. Min:5oC (Dec); Rainfall: 1891mm/yr. (District profile Achhamby Rural Access Program, 2011).
Area	Core Area: 0.55 ha; Avg. Length:60 m; Avg. Width:30 m; Avg. Depth:3 m; Max-Min Surface Water Level:4m-2 m; Basin Area:531 ha.
Water Volume	Peak Period: 204,379 ltr; Dry period: 102,190 ltr; Inlet: MoroKhola; Outlet: Dhaune Dhode.
Water quality	Physicochemical parameter: Temp.:20.8oC, pH:7.8; DO:4.4mg/l; Transparency: 0.3 m.
Soil feature	Grey color; Loamy sand texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: Nelumbo nucifera (LN: Ekpate, Kamal; HT: Ff; LU: None); Pyrus persia (LN: Pirejhar; HT: Hr; LU: None); Cynodondactylon (LN: Dubo; EN; HT: Ff; LU: None).
Major plants in basin	<i>Rhododendron arboretum</i> (LN: Gurans; HT: Tr; LU: Ful); <i>Quercus semecarpifolia</i> (LN: Khasru; HT: Tr; LU: Tm); <i>Lyonia villosa</i> (LN: Angeri; HT: Tr; LU: Bed); <i>Symplocos ramosissima</i> (LN: Dabdabe; HT: Hr; LU: Bed); <i>Pinus wallichiana</i> (LN: Gobre Sallo; HT: Tr, LU: Tm); <i>Pyracantha crenulata</i> (LN: Ghangaru;



	HT: Tr; LU: Fr); <i>Berberis aristata</i> (LN: Chutro; HT: Tr; LU: Med).
Fish	NA.
Herpetofauna	<i>Amolops marmoratus</i> (LN: Hariyo Bhyaguto; EN: Marbled Cascade Frog); <i>Bufo himalayanus</i> (LN: Lekali Bhyagoto; EN: Toad); <i>Laudakia tuberculata</i> (LN: Dunge Chheparo; EN: Himalayan Rock Lizard); <i>Asymblepharus sikimensis</i> (LN: Chikane Girget; EN; Sikkim Skink).
Birds	<i>Gypaetus barbatus</i> (LN: Hardfor Gidhdha; EN: Bearded Vulture); <i>Turdus bouboul</i> (LN: Madan Chanchar; EN: Grey/winged Blackbird); <i>Lanius schach</i> (LN: Bhadrai; EN: Long/tailed shrike); <i>Erocissa flavirostris</i> (LN: Sunthode Lampuchhre; EN: Yello/billed Blue Magpie); <i>Heterophasia capistrata</i> (LN: Kerra; EN: Rufous Sibia); <i>Motacilla alba</i> (LN: Seti Tiktike; EN: White Wagtail); <i>Tragopan satyra</i> (LN; Monal; EN: Satyr Tragopan); <i>Pucrasia marcolopha</i> (LN: Funkrans; EN: Koklass Pheasant).
Mammals	<i>Panthera pardus</i> (LN: Chituwa; EN: Common Leopard); <i>Canis aureus</i> (LN: Shyal; EN: Golden Jackal); <i>Semnopithecus schistaceus</i> (LN: Guna; EN: Nepal Grey Langur); <i>Sus scrofa</i> (LN: Bandel; EN: Eurasian Wildboar); <i>Moschus crysogaster</i> (LN: Kasturi; EN; Apine Muskdeer); <i>Muntiacus muntjack</i> (LN: Ratuwa; EN; Barking Deer); <i>Hemitragus jemlahicus</i> (LN: Jharal; EN; Himalayan Tahr); <i>Naemorhedus goral</i> (LN: Ghoral; EN: Common Ghoral).
Invasive alien species	<i>Eupatorium</i> sp (LN: Banmara; EN: Thoroughwort).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Dallena; 1km from lake; Main Trail: Mangalsen- Ramarosan road; 200m from lake to the main trail.
Land use	Forestland (70%); Grassland (5%); Settlement (2%); Wetlands (20%); Others (3%).
Demography	Population: 4399; Male: 2109; Female: 2290; HHs: 824; Ethnicity: Brahmin / Chhetri (20%); Janajati (70%); Dalit (5%); Other (5%). Major Religion: Hinduism/Buddhism (CBS 2011).
Jurisdiction/ownership	State. Wetlands dependent community None.
Livestock at basin	Recently Banned for Livestock.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants; Timber.
Cultural services	Aesthetic; Recreation; Educational.

### **E. Restoration/Management**

Structural management                      None.

Non-structural management                Formal restriction for Livestock.

Conservation plan                            None.

Monitoring plan                                None.

### **F. Tourism information**

>5,000 visitors/yr; Few hotels in lake site; Motarable road to Ramaroshan form Mangalsen; Moderate tourism potential; Needs promotional activities and roads.

### **G. Lake condition**

Degrading

## Annex-57: Inventory of lakes in Baitadi district

### 1. Patal Bhumeshor

Code: P7-D2-001

Toposheet no: New

Date of inventory: May 25, 2016



#### A. General Feature

Conservation status	Religious.
Geographical coordination	Lat: 29.14065°N; Lon: 80.46741°E; Alt: 2125 masl. Geographical position Mahabharat range
Administrative feature	FWDR; Baitadi district; Basulinga VDC; Ward-1; PaTal Bhumeshor; Sidhhanath.  (Current: Alital Rural Municipality; Ward no. 3)
Boundary	Core Area: Patal Bhumeshor temple in West; Sidhhanath in East; Patal Bhumeshor C.F in South; Sidhhanath Community Forest in North Basin Area: Seudi Bazar in west; Patan-8, Bhauneli-9 in east; Jeude Tol; in south; Tadi village-6 and Guwane-1,2,3 in north.
Management responsibility	Sidhhanath CFUG; Sidhhanath PaTal Bhumeshor Dharmik Chhetra.
Wetlands type	Natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	Avg. Max: Temp: 32.4°C (Jun/July); Avg. Min: 0.5°C (Dec); Rainfall: 1037mm /yr. (source: <a href="http://www.floraofnepal.org/?page=StaticRoot/Land%20and%20Climate/climate">http://www.floraofnepal.org/?page=StaticRoot/Land and Cliimate / climate</a> ).
Area	Core Area:0.51 ha; Avg. Length:80 m; Avg. Width:30 m; Avg. Depth:3 m; Max-Min Surface Water Level:6-3 m;  Basin Area: 1.2ha.
Water Volume	Peak Period:35000 litre; Dry period:12000 litre; Inlet: None; Outlet: Aakashay Pokhari in south (100m far from lake).
Water quality	Physicochemical parameter: Temp.:15oC, pH:6; Transparency:1m.
Soil feature	Dark colored; Sandyclay loam.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: None

Major plants in basin	<i>Pinus roxburghii</i> (LN: Salla; HT: Tr; LU: Tm); <i>Terminalia alata</i> (LN: Saaj; HT: Tr; LU: Tm); <i>Bischofia javanica</i> (LN: Kaini; HT: Tr; LU: Fodder); <i>Rhododendron ferrugineum</i> (LN: Laligurans; LU: Med); <i>Quercus leucotrichophora</i> (LN: Baanjh; LU: Fodder, fuel); <i>Butea</i> sps (LN: Palansh; LU: Med); <i>Cupressus tarulosa</i> (LN: Dhupi salla; LU: None)
Fish	<i>Channa stewartii</i> (LN: Hile; LU: Meat).
Herpetofauna	<i>Rana tigrana</i> (LN: Vyaguto; EN: Frog); <i>Japalura variegata</i> (LN: Chhirke; EN: Variegated mountain lizard); <i>Bufo</i> sps (LN: Khasrebhyaguto; EN: Toad).
Birds	<i>Megalaima virens</i> (EN: Great barbet; LN: Nyauli); <i>Francolinus francolins</i> (LN: Titra; EN: Black francolin Tit); <i>Lophura leucomelanos</i> (LN: Kaalij); <i>Urocissa erythrorhyncha</i> (L.N. Laampuchhre); <i>Treron sphenura</i> (LN: Pahadi Haleso)
Mammals	<i>Muntiacus muntjak</i> (LN: Ratuwaa; EN: Barking deer); <i>Pardofelis nebulosa</i> ; (LN: Chituwa; EN: leopard); <i>Sus scrofa</i> (LN: Bandel; EN: Wild boar); <i>Canis aureus</i> (LN: Syaal; EN: Fox); <i>Hystrix indica</i> (LN: Dumsi; EN: Porcupine)
Invasive alien species	<i>Eupatoriumsps</i> (LN: Banmara; EN: Thoroughwort).
Endemic plant/animal	None

### C. Socio-Economy at Basin

Nearby settlement	Seudi Bazar; 1.1km from lake; Mahakali highway; 1.1km from lake. Land use Forestland (100%).
Demography	Population: 333; Male: 168; Female: 165; HHs: 46; Ethnicity: Brahmin /Chhetri; Major Religion: Hinduism (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community None Livestock at basin >1000. Traditional production system None.
Traditional water use practices	Few Water mill (Ghatta); Local irrigation system (Basyau Kula, Samalla kulo, Saina); 8-10 well and kuwa.
Cultural record	None.
Genesis/origin of lake	Natural.

### D. Ecosystem Goods/Services

Provisional services	None.
Cultural services	Religious/ spiritual services-PaTal Bhumeshor temple; Mela in Shivaratri and Sankranti.

### E. Restoration/Management

Structural management	Surrounded by walls in all direction except in North. Non-structural management None
Conservation plan	Conservation and monitoring plan by Sidhhanath Patal Bhumeshor Dharmik Manch; Basulinga 1.
Monitoring plan	Conservation and monitoring plan by Sidhhanath Patal Bhumeshor Dharmik Manch; Basulinga 1.

**F. Tourism information**

300-400 visitors/yr; Few good hotels and lodge in Satbanjh; (2 km far from the lake); Road favourable only for bikes from Seudi bazar; Moderate Tourism potential; Needs promotional activities.

**G. Lake condition**

Degrading.

## Annex-58: Inventory of lakes in Bajhang district

### 1. Dau Tal

Code: P7-D3-001

Toposheet no: 2981 05

Date of inventory: May 25, 2016



#### A. General Feature

Conservation status	Religious site
Geographical coordination	Lat:29.63682N; Lon:81.09524E; Alt:2233 masl. Geographical position Mahabharat Range.
Administrative feature	FWDR; Bajhang district; Surma VDCs; Ward no. 2, 3; Bhirkot. (Current: Surma Rural Municipality; Ward no. 4)
Boundary	Core Area: Dungra village in west; Bhirkot Village in east; Khaula school in south; Hila in north Basin Area: Alka village in west; Bhirkot in east; Khaula School in south; Afra khola in north.
Management responsibility	Dau Tal Conservation Committee
Wetlands type	Fresh water /natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	Avg. Max: Temp:18oC (Jun/July); Avg. Min: 2.4oC (Dec); Rainfall:2146.16 mm/yr. (Bajhang District Climate and Energy Plan, 2014).
Area	Core Area:1.6 ha; Avg. Length:200 m; Avg. Width:100 m; Avg. Depth:5 m; Max-Min Surface Water Level:5-3 m; Basin Area:193.6 ha.
Water Volume	Peak Period:3 lakh ltr; Dry period:100000 m <sup>3</sup> ; Inlet: Afra khola(Seasonal); Outlet: water infiltrated at south end of the lake
Water quality	Physicochemical parameter: Temp:18oC, pH:6; Transparency:0.5 m.
Soil feature	Grey color; Sandy clay
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: Eichhornia crassipes (LN: Jalakumbhi; EN: water hyacinth; HT: Ff; LU: none)
Major plants in basin	Juglans regia (LN: Okhar; HT: Tr; LU: oil and fruits, timber); Quercuslanata (LN: Baanjh; HT: Tr; LU: Tm); Pyracantha crenulata (LN: Khasru; HT: Tr; LU: Tm); Castanopsis indica

	(LN: Ghangaru; HT: Shr; LU: none); Berberis aristata (LN: Kirmadu; HT: Shr; LU: none); Prinsepia utilis (LN: Dhatelo; HT: Tr, LU: Tm,); Pyrus pashia (LN: Mayal; HT: Tr; LU: Tm, fruits); Prunus persica (LN: aaru; EN: Peach; HT: Tr; LU: Tm, fruits, oil).
Fish	Channa stewartii (LN: Hile; LU: Meat)
Herpeto-fauna	Rana tigrana (LN: Vyaguto; EN: Frog); Japalura variegata (LN: Chhrike; EN: Variegated mountain lizard).
Birds	Streptopelia decaocto (LN: Kanthay dhukur; EN: Eurasian collared dove); Corvus splendens (LN: kaag; EN: HouseCrow); Sarcogyps calvus (LN: Sungidhha; EN: Red headed vulture); Falco tinnunculus (LN: Baaj; EN: Common Kestrel); Passer domesticus (LN: Vangera; EN: Sparrow); Lophura leucomelanus (LN: Kaalij; EN: Kaalij Pheasant); Phalacrocorax carbo (LN: Jalewa; EN: Great cormorant)
Mammals	Canis aureus (LN: Syal; EN: Fox); Myotis sicarius (LN: Chamero; EN: Mouse eared Bat); Hystrix indica (LN: Dumsi; EN: Porcupine); Felis chaus (LN: BanBiral; EN: Jungle Cat).
Invasive alien species	None.
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Bhirkot; 50 m from lake; Chainpur-Dogadi-Daulichaur; About 1 km from lake to the main trail.
Land use	Forestland (31.44%); Cultivation (31.99); Shrubland; (26.17%); Grassland (10.42%).
Demography	Population: 550; Male: 300; Female: 250; HHs: 40; Ethnicity: Brahmin/Chhetri (100%); Major Religion: Hinduism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>300.
Traditional production system	None.
Traditional water use practices	Religious/ritual pond, seasonal water mill (Afra khola ghatta). Cultural record Religious site; Early Habitat of goddess Surma Devi.
Genesis/origin of lake	Natural.

### D. Ecosystem Goods/Services

Provisional services	Fishes available in monsoon, fodder for cattle.
Cultural services	Aesthetic and religious; Surma Devi temple at the distance just 1 km from the lake; Mela and haatbazar at different festivals.

### E. Restoration/Management

Structural management	Lake core area surrounded by stone wall (average 3 feet).
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Non-structural management

Informal rules such as prohibition in fishing, grazing of cattle around the lakes, restriction in bathing of cattle in lake

Conservation plan

Walls around lake to block excess outlet of water at south end of the lake.

Monitoring plan

None.

**F. Tourism information**

Very few visitors; 3 and half hour off road walk from Dogadi; No hotels around lake; No tourism potential.

**G. Lake condition**

Degrading.



## Annex-59: Inventory of lakes in Bajura district

### 1. Chhede Daha

Code: P7-D4-001

Toposheet no: 2981 10

Date of inventory: May 24, 2016



#### A. General Feature

Conservation status	None.
Geographical coordination	Lat:29.41577oN; Lon:081.31164o827o E; Alt:2159 masl. Geographical position Mahabharat Range.
Administrative feature	FWDR; Bajura district; Atichaur and Gudukhati VDCs; Ward-7,9; Atichaur.  (Current: Chhededaha Rural Municipality; Ward no. 4)
Boundary	Core Area: Temple in East; Forestin South and West; Farm land in North.  Basin Area: Patna pani in west; Simkatna Danda in east; Dakundeli Danda in South; Ratakali Danda in north.
Management responsibility	Chhede Daha Conservation Committee
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	Avg. Max: Temp:25oC (Jun/July); Avg. Min:2.5oC (Dec); Rainfall:52.5 mm/yr. (Summary Fact Sheet of Bajura District; 2011).
Area	Core Area:1.1ha; Avg. Length:70 m; Avg. Width:50 m; Avg. Depth:4.2 m; Max-Min Surface Water Level:3.9-6.2 m; Basin Area:7.8 ha.
Water Volume	Peak Period: 615,976 ltr; Dry period: 401,474 ltr; Inlet: None; Outlet: None.
Water quality	Physiochemical parameter: Temp.:23.8oC, pH:8.2; DO:3.2 mg/ l, Transparency: 0.5m.
Soil feature	Grey color; Sandyclay loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: Equisetum arvense (LN: Talche Jhar; EN:LU: None).
Major plants in basin	Rhododendron sps (LN: Gurans; HT: Tr; LU: Ful); Alnus nepalensis (LN: Utis; HT: Tr; LU: Tm); Berberis aristata (LN: Chutro; HT: Shrub, LU: Med); Pyracantha crenulata (LN: Ghangaru; HT: Shrub; LU: Fd).
Fish	Garra gotyla (LN: Gadela; LU: Meat).
Herpetofauna	<i>Bufo melanostictus</i> (LN: Khashre Bhyaguto; EN: Blake / Spined Toad); Paa minica (LN: Paha; EN: Small Paa Frog); Calotesversicolor (LN: Chheparo, EN: Common Garden

	Lizard); Jalapuradasi (LN: Hariyo Chheparo; EN: Agaupani Mountain Lizard); Asymblepharus sikimmensis (LN: Bhane Mungro; EN; Sikkim Shink)
Birds	Francolinus francolinus (LC: Kalo Titra; EN: Black Francolin); Lophura leucomelanos (LN: Kalij; EN: Kalij Pheasant); Tadorna ferruginea (LN: Chakhewa Chakhewi; EN: Ruddy Shelduck); Neophron percnopterus (LN: Seto Giddha; EN: Egyptian Vulture); Flaco tinnunculus (LN: Baudai; EN: Common Krestal); Milvus migrans (LN: Kalo Chil, EN: Black Kite).
Mammals	Muntiacus muntjak (LN: Ratuwa; EN: Barking Deer); <i>Sus scrofa</i> (LN: Badel; EN: Eurasian Wild Boar); <i>Macaca mulatta</i> (LN: Roto Bandar; EN: Rhesus Macaque); Semnopithecus schistaceus (LN: Nepali Langur; EN: Nepal Grey Langur); Canis aureus (LN: Shyal; EN: Golden Jackal); Ursus thibetanus (LN: Kalo Bhalu; EN: Asiatic Black Bear); Felis bengalensis (LN: Chari Bagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Kalo Oot; EN: Eurasian Otter)
Invasive alien species	<i>Ageratina adenophora</i> (LN: Kalo Banmara; EN: Crofton Weed) Endemic plant/animal Jalapura dasi (LN: Hariyo Chheparo; EN: Agaupani Mountain Lizard). Source: Shah, K.B. & Tiwari, S. (2004). Herpetofauna of Nepal: A Conservation Companion.

### C. Socio-Economy at Basin

Nearby settlement	Lamgaun; 1km from lake; Main Trail: Bajura to Bajhang motor road(Underconstruction); 100 m from lake.
Land use	Agriculture (16%); Shrubland (81%); Grass land (3%).
Demography	Population: 4,277; Male: 2,082; Female: 2,195; HHs: 751; Ethnicity: Brahmin / Chhetri (86%); Janajati (0%); Dalit (13%); Other (1%). Major Religion: Hindu (Summary Fact Sheet of Bajura District).
Jurisdiction/ownership	State. Wetlands dependent community None. Livestock at basin >500. Traditional production system None.
Traditional water use practices	Religious/ritual pond.
Cultural record	Religious site; Thaparmandau temple at basin.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants; Domestic Water Supply; Picnic spot. Cultural services Aesthetic; Religious; Educational; Recreation.
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### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

>1000 visitors/yr; Few hotels in lake site; Seasonal Motarable road from Tipada; domestic tourism high. Needs Good Hotel, transportation and proper management of lake.

### G. Lake condition

Degrading.

## 2. Dhalpuri Pokhari

Code: P7-D4-002

Toposheet no: 2981 10

Date of inventory: May 25, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:29.36068°N; Lon:081.40827°E; Alt: 2,528 masl.
Geographical position	Mahabharat Range.
Administrative feature	FWDR; Bajura district; Kailashmandau VDC; Ward-3; Dhalpuri.  (Current: Tribeni Municipality; Ward no. 7)
Boundary	Core Area: Badimalika trail in the north and the west; Forest in east and south. Basin Area: Chiru Tala in west; Motipani in east; Bajaso Ghadi in South; Kaltare Danda in north.
Management responsibility	None.
Wetlands type	Fresh water/natural; Lacustrine; Seasonal.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp: 25°C (Jun/July); Avg. Min:2.5°C (Dec); Rainfall: 52.5 mm/yr. (Summary Fact Sheet of Bajura District; 2011).
Area	Core Area: 1.8ha; Avg. Length: 100 m; Avg. Width: 40 m; Avg. Depth: 1.2 m; Max-Min Surface Water Level: 2.1 m-0.3 m; Basin Area: 36.6 ha.
Water Volume	Peak Period: 238,442 ltr; Dry period: 5,109 ltr; Inlet: None; Outlet: None.
Water quality	Physiochemical parameter: Temp.: 19°C, pH: 7.6; DO: 1.8mg/l, Transparency: 0.05m.
Soil feature	Dark color; Silty clay texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: Rumex nepalensis (LN: Halhale; HT: Ff; LU: Med).
Major plants in basin	Rhododendron arboretum (LN: Gurans; HT: Tr; LU: Ful); Quercus semecarpifolia (LN: Khasru; HT: Tr; LU: Tm); Lyonia ovalifolia (LN: Angeri; HT: Hr; LU: AB); Symplocos ramosissima (LN: Dabdabe; HT: Tr, LU: Bed); Pinus wallichiana (LN: Gobre salla; HT: Tr; LU: Tm).
Fish	NA.

Herpetofauna	<i>Bufo melanostictus</i> (LN: Khashre Bhyaguto; EN: Blake/Spined Toad); <i>Calotes versicolor</i> (LN: Chheparo, EN: Common Garden Lizard); <i>Asymblepharus sikimensis</i> (LN: Bhane Mungro; EN: Sikkim Shink); <i>Laudakia tuberculata</i> (LN: Chheparo; Rock lizard).
Birds	<i>Pucrasia macrolopha</i> (LN: Fungras, EN: Koklass Pheasant); <i>Tragopan satyr</i> (LN: Munal; EN: Satyr tragopan); <i>Lophura leucomelanos</i> (LN: Kalij; EN: Kalij Pheasant); <i>Sitta himalayensis</i> (LN: Katusemataa; EN: Whitetailed Nuthatch); <i>Parus monticolus</i> (LN: Hariyo chichilkote; EN: Green-backed Tit); <i>Milvus migrans</i> (LN: Kalo Chil, EN: Black Kite); <i>Garrulax striatus</i> (LN: Kali Toriganda; EN: Striated Laughingthrush); <i>Heterophasia capistiata</i> (LN: Sibia, Kerra; EN: Rufous sibia); <i>Turdus bouboul</i> (LN: Chachar; EN: Grey-winged Blackbird).
Mammals	<i>Malvis flavigula</i> (LN: Malsapro; EN: Yellow throated martin); <i>Canis aureus</i> (LN: Shyal; EN: Golden Jackal); <i>Ursus thibetanus</i> (LN: Kalo Bhalu; EN: Asiatic Black Bear); <i>Felis bengalensis</i> (LN: Chari Bagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Kalo Oot; EN: Eurasian Otter)
Invasive alien species	<i>Ageratina adenophora</i> (LN: Kalo Banmara; EN: Crofton Weed); <i>Naemorhedus goral</i> (LN: Ghoral; EN: Common Goral).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Nateshori; 1km from lake; Main Trail: Bamka-Badimalika trail; very close to lake.
Land use	Forestland (5%); Grass land (95%).
Demography	Population: 9, 5862498; Male: 4,489; Female: 5097; HHs: 1,818; Ethnicity: Brahmin /Chhetri (71%); Janajati (26%); Other (3%). Major Religion: Hindu (Summary Fact Sheet of Bajura District).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	None.
Traditional water use practices	Watermill (Ghatta).
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Water for livestock.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.

Monitoring plan

None.

**F. Tourism information**

No visitors; No tourism potential.

**G. Lake condition**

Degrading.

## Annex-60: Inventory of lakes in Dadeldhura district

### 1. Ali Tal

Code: P7-D5-001

Toposheet no: 2980 14B

Date of inventory: May 31, 2016



#### A. General Feature

Conservation status	None.
Geographical coordination	Lat:29.10046°N; Lon:80.48918°E; Alt:780 masl. Geographical position Churiya Range.
Administrative feature	FWDR; Dadeldhura district; AliTal VDC; Ward no. 4; AliTal. (Current: Alital Rural Municipality; Ward no. 8)
Boundary	Core Area: Asigram community Forest in West; Raksaun village in East and South; Bhumiraj Community Forest in North  Basin Area: Chanala Village in west; Bhotyaula in east; Dadele in south; Chaud mamur in north.
Management responsibility	AliTal Tourism Board
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	Avg. Max: Temp: 32°C (Jun/July); Avg. Min: 3°C (Dec); Rainfall:1346mm (source: <a href="http://www.rapnepal.com/district/district-profile-3">http://www.rapnepal.com/district/district-profile-3</a> ).
Area	Core Area: 7. ha; Avg. Length: 500 m; Avg. Width: 350 m; Avg. Depth: 50 m; Max-Min Surface Water Level: 65-55 m; Basin Area: 72.8ha.
Water Volume	Peak Period: 1 millionm <sup>3</sup> ; Dry period: 8750000 m <sup>3</sup> ; Inlet: None; Outlet: Irrigation canal to Raksaun Dadelel khet.
Water quality	Physicochemical parameter: Temp: 18°C; pH: 6; Transparency: 3 m.
Soil feature	Dark colored; Sandy loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: Eichhornia crassipes (LN: Jalakumbhi; EN: water hyacinth; HT: Ff; LU: none) <i>Sphagnum nepalensis</i> (LN: Jhyau; HT: E m; LU: none). Major plants in basin <i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm); <i>Pinus roxburghii</i> (LN: Salla; HT: TR; LU: Tm); <i>Terminalia alata</i> (LN: Saaj; HT: Tr; LU: Tm); <i>Mallotus philippensis</i> (LN: Rohini; HT: Tr; LU: Tm, Fr); <i>Bischofia javanica</i> (LN: Kaini; HT: Tr; LU: Fodder); <i>Buchanania latifolia</i> (LN: Gaayo; HT: Tr, LU: Tm);
Fish	Tautuga onitis (LN: Kalo Machha; LU: Meat); Labeo rohita (LN: Rohu; LU: Meat); <i>Anguilla bengalensis</i> (LN: Raj Ba m; LU: Meat)

Herpetofauna	Manis pentadactyla (LN: Salak; EN: Chinese pangolin); <i>Varanus bengalensis</i> (LN: Bhainse; EN: Monitor lizard); Naja naja (LN: Goman; EN: Cobra).
Birds	Megalaima virens (EN: Great barbet; LN: Nyauli); Francolinus francolins (LN: Titra; EN: Black Francolin Tit); Lophura leucomelanos (LN: Kaalij; EN: Kaalij Pheasant); Amaurornis phoenicurus (LN: Jalkhukhuro; EN: Whitebreasted Hen).
Mammals	<i>Sus scrofa</i> (LN: Bandel; EN: Wild boar); Hystrix indica (LN: Dumsi; EN: Porcupine); Canis aureus (LN: Syal; EN: Fox); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); Manis pentadactyla (LN: Salak; EN: Chinese Pangolin); Muntiacus muntiac (LN: Ratuwa; EN: Barking deer); Naemorhedus goral (LN: Ghoral; EN: Himalyan Goral)
Invasive alien species	Eupatorium sp (LN: Banmara; EN: Thorughwort); Trifolium repens (EN: White clover).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Chanala Padyaha m; 1 km from lake; Lamjile-Godam chowk-Ali Tal road; 3 km from lake to the main trail.
Land use	Forestland (98.18%); Shrubland; (0.63%); Grassland; (0.98%), Agriculture (0.27%).
Demography	Population: 13,461; Male: 6,446; Female: 7,015; HHs: 2,379. (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	48 households of Raksaun village for irrigation all-round the year.
Livestock at basin	>1000.
Traditional production system	Traditional farming including production of medicinal plants. Traditional water use practices Religious/ritual pond; Local irrigation syste m; AliTal kulo Cultural Record None.
Genesis/origin of lake	Natural.

### D. Ecosystem Goods/Services

Provisional services	Irrigating and water supply in Raksaun and Dadele village. Cultural services Aesthetic; Religious; Tourism, Local festivals.
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### E. Restoration/Management

Structural management	Da m; Wall in outlet of lake.
Non-structural management	Informal restrictions.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

>2,500 visitors/yr; Few good hotels and lodges in Godam chowk (3 km far from the lake); Gravel road to Godam chowk from Budar, Doti; High tourism potential. Needs promotional activities.

### G. Lake condition

Degrading.

## Annex-61: Inventory of lakes in Doti district

### 1. Chhatiwan Tal

Code: P7-D6-001

Toposheet no: 2980 15C

Date of inventory: June 03, 2016



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat: 29.078920N; Lon:080.586460E; Alt:1188 masl.  
Geographical position Churiya.

Administrative feature

FWDR; Doti district; Chhatiwan VDC; Ward- 3; Chhatiwan.  
(Current: Jorayal Rural Municipality; Ward no. 2)

Boundary

Core Area: Farmland in East; Forest in others directions.

Basin Area: Pote Bonda in west; Ritha Gaun in east; Tomdek Danda in North and Bodar to Jarayal trail in south.

Management responsibility

None.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp: 33.70C (Jun/July); Avg. Min: 30C (Dec);  
Rainfall:8608 mm/yr. (Source: Doti District Profile by Field  
Co-ordinate Office (UNFCO) Region Dadeldhura, Nepal,  
2013).

Area

Core Area: 1.9 ha; Avg. Length: 80 m; Avg. Width: 55 m;  
Avg. Depth:7.5 m; Max-Min Surface Water Level: 8.5-5 m;  
Basin Area: 66.7 ha. Water Volume Peak Period:  
965,124 ltr; Dry period: 393316 ltr; Inlet: None; Outlet:  
Mohoto Khola.

Water quality

Physiochemical parameter: Temp: 25.50C, pH: 8.1; DO: 3.7  
mg/l; Transparency: 0.9m.

Soil feature

Grey color; Sandy clay loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: Acorus calamus (LN: Bojho; HT: Hr; LU: Med);  
Colocasia sps (LN: Jaluka; EN: Elephant Ear); Rumex  
nipalensis (LN: Halhale; EN: Nepal Dock).

Major plants in basin

Pinus rusburghii (LN: Rani Salla HT: Tr; LU: Tm); Alnus  
nepalensis (LN: Uttis; HT: TR; LU: Tm); Sapium sps (LN:  
Khirro; EN: Tallow tree).

Fish

Garra gotyla (LN: Pagarmachha; LU: Meat).

Herpetofauna

*Bufo melanostictus* (LN: Khashre bhyaguto; EN: Black  
spined toad); *Bufo himalayanus* (LN: Lekali Bhyagoto; EN:  
Toad); *Varanus bengalensis* (LN: Hallane Ghodo; EN: Bengal  
Monitor lizard); *Euphlyctis cyanophlyctis* (LN: Tik tike paha;  
EN: Skittering frog); *Paa menica* (LN: Paha; EN: Small Paha  
frog); *Calotes versicolor* (LN: Chheparo; EN; Common



	Garden Lizard); <i>Asymblepharus sikimensis</i> (LN: Chikani Girgit; EN: Sikkim Skink); <i>Amphiesma stolatum</i> (LN: Harara; EN: Buff/striped Keelback); <i>Ptyas mucosa</i> (LN: Sarpa; EN: Asiatic Rat Snake); <i>Xenochrophis sanctiohannis</i> (LN: Pani Sarpa; EN: St. john's Water Snake).
Birds	<i>Francolinus francolinus</i> (LN: Kalo Titra; EN: Black Francolin); <i>Lophura leucomelanos</i> (LN: Kalij; EN: Kalij Pheasant); <i>Halcyon smyrnensis</i> (LN: Seto Kanthe Matikore; EN: White/throated Kingfisher); <i>Eudynamys scolopacea</i> (LN: Koeli; EN: Asian Koel); <i>Strix leptogrammica</i> (LN: Chasme Ooluk; EN: Brown wood Owl); <i>Streptopelia chinensis</i> (LN: Kurle Dhukur; EN: Spotted Dove); <i>Urocissa erythrorhyncha</i> (LN: Shyal Pothari Lampuchhre; EN: Red/billed Blue Magpie); <i>Dicrurus macrocercus</i> (LN: Kalo Chibe; EN: Black Drogo); <i>Vanellus indicus</i> (LN: Huttityau; EN: Red/wattled Lapwing).
Mammals	<i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Canis aureus</i> (LN: Shyal; EN: Golden Jackal); <i>Panthera pardus</i> (LN: Chituwa; EN: Common Leopard).
Invasive alien species	<i>Ageratina adenophora</i> (LN: Kalo Banmara; EN: Crofton Weed); <i>Xathium</i> sps (LN: Bhedekuro; EN: Common Koklebur).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Chhatiwan; 50 m from lake; Main Trail: Budar-Jarayal; 10 m from lake. Land use Forestland (71%); Agriculture (29%).
Demography	Population: 4001; Male: 1992; Female: 2009; HHs: 742; Ethnicity: Brahmin (9.9%); Chhetri (33.8%); Janajati (24.1%); Dalit (29.5%); Other (2.6%). Major Religion: Hindu. Major Dialect: Nepali (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community None. Livestock at basin >300. Traditional production system None.
Traditional water use practices	Religious/ritual pond.
Cultural record	Religious site; Siddha Temple at basin.
Genesis/origin of lake	None.

#### **D. Ecosystem Goods/Services**

Provisional services	Fodder; Medicinal plants.
Cultural services	Aesthetic; Religious; Educational.

#### **E. Restoration/Management**

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

#### **F. Tourism information**

>1,000 visitors/yr; Motarable road from Budar Bazar, abt 3 km from lake; Good hotel and Resorts in Budar Bazar; Needs promotional activities.

#### **G. Lake condition**

Degrading.

## 2. Rangeni Tal

Code: P7-D6-002

Toposheet no: 2981 10

Date of inventory: June 02, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:29.084430N; Lon:080.563010E; Alt:1338 masl.
Geographical position	Churiya
Administrative feature	FWDR; Doti district; Chhatiwan VDCs; Ward-1; Rangeni. (Current: Joraya Rural Municipality; Ward no. 2)
Boundary	Core Area: Grass land in all directions. Basin Area: Millchaura Bazar in west; Pine forest hill in East; Kailali- Doti highway in North; Private pine forest in South.
Management responsibility	Rangeni Tal Samrakshan Committee
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp: 33.70C (Jun/July); Avg. Min:30C (Dec); Rainfall: 8608 mm/yr. (Source: Doti District Profile by Field Co-ordinate Office (UNFCO) Region Dadeldhura, Nepal; 2013).
Area	Core Area: 0.5ha; Avg. Length: 60 m; Avg. Width: 40 m; Avg. Depth:3.6 m; Max-Min Surface Water Level: 2-4.9 m; Basin Area: 8.2 ha. Water Volume Peak Period: 345,885 ltr; Dry period: 141,178 ltr; Inlet: None; Outlet: None.
Water quality	Physicochemical parameter: Temp: 27.80C, pH: 10.4; DO: 6.1; Transparency:0.48 m.
Soil feature	Red color; Silt loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: None.
Major plants in basin	Pinus rusburgii (LN: Rani Sallo; HT: Tr; LU: TM); Schima walichi (LN: Chilaune; HT: TR; LU: Tm); Myrica esculenta (LN: Kafal; HT: Tr; LU: Fr); Sapium sps (LN: Khirro; EN: Tallow tree); Pyrus pashia (LN: Mayal; HT: Tr; LU: Tm).
Fish	None.
Herpetofauna	Bufo himalayanus (LN: Khashre bhyaguto; EN: Himalayan Toad); Bufo melanostictus (LN: Khashre Bhyagoto; EN: Black/Spined Toad); Euphlyctis canophlyctis (Tik tike paha; EN: Skittering frog); Mabuya carinata (LN: Chikani Girit; EN: Brahminy Skink); Varanus bengalensis (LN: Hallane Ghodo; EN: Common Monitor); Amphiesma platyceps (LN: Rato Sarpa; EN: Mountain Keelback).

Birds	Francolinus francolinus (LN: Kalo Titra; EN: Black Francolin); Lophura leucomelanos (LN: Kalij; EN: Kalij Pheasant); Megalaima asiatica (LN: Kuthurke; EN: Blue/throated Barbet); Halcyon smyrnensis (LN: Seto Kanthe Matikore; EN: White/throated kingfisher); Eudynamys scolopacea (LN: Koeli; EN: Asian Koel); Vanellus indicus (LN: Hutittyau; EN: Red/wattled lapwing); Eurocissa erythrorhyncha (LN: Shyalpothari Lampuchhre; EN: Red/billed Blue Magpie)
Mammals	Felis bengalensis (LN: Charibagh; EN: Leopard Cat); Panthera pardus (LN: Chituwa; EN: Common Leopard); <i>Macaca mulatta</i> (LN: Rato Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); Canis aureus (LN: Shyal, EN: Golden Jackal); Martes flavigula (LN: Malsapro; EN: Yellow/throated Marten).
Invasive alien species	<i>Ageratina adenophora</i> (LN: Kalo Banmara; EN: Crofton Weed). Endemic plant/animal None.

### C. Socio-Economy at Basin

Nearby settlement	Millchaura bazar; 120 m from lake; Main Trail: Kailali-Doti highway; 40 m from lake.
Land use	Cultivation (58%); Grassland (27%); Forestland (15%).
Demography	Population: 4001; Male: 1992; Female: 2009; HHs:742; Ethnicity: Brahmin/Chhetri (20%); Janajati (70%); Dalit (5%); Other (5%). Major Religion: Hinduism/Buddhism (CBS 2011).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Timber Supply,
Cultural services	Aesthetic; Recreation; Educational.

### E. Restoration/Management

Structural management	Dam and Fencing; Support from National Lake Conservation Nepal. Non-structural management Formal restriction.
Conservation plan	None
Monitoring plan	None.

### F. Tourism information

	>2000 internal visitors/yr; Few good hotels and Resorts at Budar Bazar near lake site; 50m from Highway (Attariya to Silgadhi highway). Needs promotional activities.
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### G. Lake condition

	Degrading.
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## Annex-62: Inventory of lakes in Kailali district

### 1. Ajuwa Lake

Code: P7-D7-001

Toposheet no: 2881 09A

Date of inventory: May 22, 2016



#### A. General Feature

Conservation status	None.
Geographical coordination	Lat:28.69446946°N; Lon:80.95518528°E; Alt:166 masl. Geographical position Terai Range.
Administrative feature	FWDR; Kailali district; Ghodaghodi Municipality; Ward-9; Ghodaghodi. (Current: Ghodaghodi Municipality; Ward no. 1)
Boundary	Core Area: Forest in all directions. Basin Area: Forest in all directions.
Management responsibility	Ghodaghodi Conservation Committee with the representation of
DDC.	
Wetlands type	Fresh water/natural; Lacustrine; Seasonal.

#### B. Ecological Feature

Climatic feature	Avg. Max: Temp: 40.5oC (Jun/July); Avg. Min: 17.7oC (Dec); Rainfall:1577mm/yr.
Area	Core Area: 4.1 ha; Avg. Length: 100 m; Avg. Width: 100 m; Avg. Depth: 1 m; Max-Min Surface Water Level: 0.5-1 m; Basin Area: 9648.4 ha.
Water Volume	NA.
Water quality	Physicochemical parameter: Temp.: 24oC, pH: 5.9; Electric conductivity: NA; Transparency: 0.5 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: None.
Major plants in basin	<i>Shorea robusta</i> (LN: sal; HT: Tr; LU: Ful); <i>Synzigium cumini</i> (LN: jamun; HT: TR; LU: Tm); <i>Adena cordifolia</i> (LN: Asna; HT: Tr; LU: Tm); <i>Acacia catechu</i> (LN: Khayar; HT: Tr; LU: Tm); <i>Dalbergia sisoo</i> (LN: Sisoo; HT: Hr; LU: Med).
Fish	NA.
Herpetofauna	<i>Bufo melanostictus</i> (LN: Khasre bhyaguto; EN: Black-spined toad); <i>Hoplobatrachus crassus</i> (LN: Sirke Paha; EN: Jerdon's bull frog); <i>Amolops marmoratus</i> (LN: Tite Paha); <i>Python morulus</i> (LN: Ajingar; EN: Python); <i>Ptyas mucosa</i> (LN: Dhaman; EN: Ratsnake).
Birds	<i>Casmerodius albus</i> (EN: Great Egret); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Vanellus indicus</i> (LN:

Mammals	huttititau; EN: Red-watteled lapwing); Falco tinnunculus (LN: Baaj; EN: Common Kestrel). Felis bengalensis (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: squirrel).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); Eupatorium sp (LN: Banmara; EN: Thoroughwort).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Ghodaghodi Chowk; 100 from lake; Main Trail: Mahendra Highway-Ghodaghodi lake-Ajuwa lake; 100 m from lake.
Land use	Forestland (100%); Agriculture (0%); Settlement (0%); Wetlands (0%); Others (0%).
Demography	Population: 616,697; Male:NA; Female:NA; HHs:504; Ethnicity: Brahmin/Chhetri (21.13%); Janajati (41.53%); Dalit (1.11%); Other (5%). Major Religion: Hinduism. (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community None. Livestock at basin >200.
Traditional production system	None
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	Aesthetic; Religious; Educational.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

Local visitors only; Motarable road to Ajuwa Lake; Transportation services from Mahendra Highway; No tourism potential.

### G. Lake condition

Degrading.

## 2. Baba Lake

Code: P7-D7-002

Toposheet no: 2880 08B

Date of inventory: Jun 2, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.71844627°N; Lon:80.96643454°E; Alt:184 masl.  
Geographical position Terai Range.

Administrative feature

FWDR; Kailali district; Ghodaghodi Municipality; Ward no. 1; Belkot.

Boundary

(Current: Ghodaghodi Municipality; Ward no. 8)

Core Area: Forest in all directions.

Basin Area: Forest in all directions.

Management responsibility

Ghodaghodi Conservation Committee with the representation of DDC. Wetlands type Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.5C (Jun/July); Avg. Min:17.7oC (Dec);  
Rainfall:1577mm/yr.  
([www.beautifulfarwestnepal.blogspot.com](http://www.beautifulfarwestnepal.blogspot.com)).

Area

Core Area:2.6 ha; Avg. Length:500 m; Avg. Width:200 m;  
Avg. Depth:2 m; Max-Min Surface Water Level:0.5-3 m;  
Basin Area:9648.4 ha.

Water Volume

NA.

Water quality

Physicochemical parameter: Temp.:24oC, pH:5.9; Electric conductivity: NA. Transparency:0.5 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Utricularia australia* (LN: Simghas; HT: S m; LU: None); *Oryza rufipogon* (LN: Jungalidhan; HT: E m; LU: None); *Phragmites* sps (LN: Narkat; HT: Sr; LU: Fod); *Ceratophyllum demersum* (LN: Patai; HT: S m; LU: None); *Hydrilla* sps (LN: Panijhyau; HT: Ff; LU: None).

Major plants in basin

*Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm, Med); *Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Shorea robusta* (LN: Sal; HT: Tr; LU: Fur, fuel); *Synzigium cumini* (LN: Jamun; HT: Tr; LU: Tm, Fr); *Adena cordifolia* (LN: Haldo; HT: Tr; LU: Tm); *Embllica officinalis* (LN: Amala; HT: Tr, LU: Med, Fruit); *Oroxylum indicum* (LN: Tatelo; HT: Tr; LU: Med); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Med);

Fish

*Puntius* sps (LN: Sedari; LU: Meat); *Cetanoloharyngodon idella* (LN: Carp; LU: Meat); *Hypophthalmichthys nobilis* (LN: Carp; LU: Meat); *Labeo rohita* (EN: Rohu; LU: Meat)

Herpetofauna	Euphlyctis cyanophlyctis (LN: Tiktike Paha; EN: Skittring Frog); Buttaphrynus melanostictus (LN: Kalokhasre Bhyaguto; EN: Blackspined Toad); <i>Calotes versicolor</i> (LN: Cheparo; EN: Garden lizard); <i>Varanus bengalensis</i> (LN: Gohoro; EN: Monitor Lizard); Bungarus sps (LN: Karet; EN: Common Krait); <i>Bufo melanostictus</i> Schneider (LN: Khasre bhyaguto; EN: Black-spined toad); Python morulus (LN: Ajingar; EN: Python); Naja naja (LN: Cobra; EN: Common Cobra).
Birds	Eudynamis scolopacea (LN: Koili; EN: Asian Koel); Psittacula sps (LN: Suga; EN: Parrot); Eupupa epops (LN: Fapre; EN: Hoopoe); Francolinus francolinus (LN: Kalotitra; EN: Black Francolin); Gallusgallus (LN: Bankukhura; EN: Red Jungle fowl); Passer domesticus (LN: Bhagero; EN: Sparrow); Corvus splendens (LN: Kaag; EN: HouseCrow); Streptopelia Chinensis (LN: Dhukur; EN: Spotted Dove); Dicrurus macrocercus (LN: Chibe; EN: Drongo); Ocyrceros birostris (LN: Dhanes; EN: Grey Hornbill).
Mammals	Herpestes sps (LN: Nyarimusa; EN: Mongoose); Canis aureus (LN: Syal; EN: Golden jackal); Felis bengalensis (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat)
Invasive alien species	<i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed); Xanthium strumarium (LN: Bhede kuro; EN: Cockle bur sheep bar); Ageratum conyzoides (LN: Nilo gande; EN: Cheek weed); Casia tora (LN: Kose; EN: Sickie pod).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Belkot Gaun; 100 from lake; Main Trail: Mahendra Highway-Ghodaghodi lake-Belkot Gaun; 100 m from lake.
Land use	Forestland (80%); Agriculture (10%); Settlement (5%); Wetlands (2%); Others (3%).
Demography	Population: 616,697; Male: NA; Female: NA; HHs: 504; Ethnicity: Brahmin/Chhetri (21.13%); Janajati (41.53%); Dalit (1.11%); Other (5%). Major Religion: Hinduism. (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community Belkot Gaun. Livestock at basin >200.
Traditional production system	None Traditional water use practices None. Cultural record None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information**

Few local visitors; Transportable road to Baba Lake; Tourism potential high. Needs promotional activities.

**G. Lake condition**

Degrading.



### 3. Bahuliya Tal

Code: P7-D7-003

Toposheet no: 2880 07D

Date of inventory: July 04, 2016



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.57836°N; Lon:80.72713°E; Alt:143 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailali district; Dhangadi Sub-metropolitan; Ward no.18; Bahuliya.

Boundary

(Current: Dhangadhi Municipality; Ward no. 19)

Core Area: Farmland in all directions.

Basin Area: I-Gaon to Bahuliya road in west; India's border in east and south; Bahuliya gaon in North.

Management responsibility

Shree Jana Sahayogi Primary School, Bahuliya. Wetlands type Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.5oC (Jun/July); Avg. Min:17.7oC (Dec);  
Rainfall:1577mm/yr.  
([www.beautifulfarwestnepal.blogspot.com](http://www.beautifulfarwestnepal.blogspot.com)).

Area

Core Area:12 ha; Avg. Length:900 m; Avg. Width:40 m;  
Avg. Depth:1.5 m; Max-Min Surface Water Level:2-1 m;  
Basin Area:90 ha.

Water Volume

Peak Period:67 million ltr; Dry period: 170,000 m3; Inlet:  
None; Outlet: Regulated drain (Avg. Max: Temp:31oC  
(Jun/July); Avg. Min:5oC (Dec) (DDC Profile 2006);  
Rainfall:2500 mm/yr (With reference to  
[www.slideshare.net/RajKumarAdhikari](http://www.slideshare.net/RajKumarAdhikari)).

Water quality

Physiochemical parameter: Temp.:29.1oC, pH:7.8;  
DO:4.2mg/l; Transparency: 0.35m.

Soil feature

Grey color; Clay loam.

Shocks/vulnerability

Water Volume decrease.

Major aquatic plants

Core Area: *Nymphaea stellata* (LN: Nilkamal; EN: Blue lotus;  
HT: Ff; LU: Orn); *Eichhornia carnea* (LN: Jalkumbhi; HT: Ff;  
LU: none).

Major plants in basin

*Bombax ceiba* (LN: Simal; HT: Tr; LU: Tm); *Syzygium cumini* (LN: jamun; HT:TR; LU: Tm, Md); *Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Imperata cylindrica* (LN: Siru; HT: Grass; LU: Fd); *Eucalyptus alba* (LN: Masala; HT: Tr; LU: Tm); *Trewia nudiflora* (LN: Vellor; HT: Tr; LU: Fd); *schleichera oleosa* (LN: Kusu m; HT: Tr; LU: Fd); *Calotropis gigantea* (LN: Ankh; HT: Tr; LU: Med); *Desmostachya bipinata* (LN: Kush; HT: Gr; LU: Fd).

Fish

*Clarias batrachus* (LN: Mangur; LU: Meat); *Labeo rohita* (LN: Rohu; LU: Meat), *Cirrhinus mrigala* (LN: Naini; LU: Meat),

Herpetofauna	<p>Catla catla (LN: Vyakur; LU: Meat); Puntios sarona (LN: Kande; LU: Meat); Puntios ticto (LN: Bhte; LU: Meat); <i>Cetanoloharyngodon idella</i> (LN: Grass Carp; LU: Meat); Hypophthalmichthys nobilis (EN: Bighead Carp; LU: Meat); Hypophthalmichthys molitrix (LN: Silver Carp; LU: Meat).</p> <p><i>Bufo melanostictus</i> (LN:Khashre Bhyaguto; EN:Black-spined Toad);<i>Kaloula taprobanica</i> (LN:Byaguyo; EN:Srilanka Bullfrog); <i>Euphlyctis cyanophlyctis</i> (LN:Tik-tike Paha; EN:Skitting Frog); <i>Hoplobatrachus crassus</i> (LN:Sirke Paha; EN:Jerdon’s Bullfrog); <i>Xenochrophis piscator</i> (LN:Pani Sarpa; EN:Chequered Keelback Watersnake); <i>Pangshura tatum</i> (LN:Kachhuwa; EN:Indian Roofed Turtle); <i>Indotestudo elongata</i> (LN:Kachhuwa; EN:Yellow-headed Tortoise); <i>Asynblepharus sikimensis</i> (LN:Chikni Girgit; EN:Sikkem Skink).</p>
Birds	<p><i>Phalacrocorax niger</i> (LN: Sano Jalewa; EN: Little Cormorent); <i>Bulbulcus ibis</i> (LN: Bastu Bakulla; EN: Cattle Egret); <i>Ceryle rudis</i> (LN: Chhirbire Matikore; EN: Pied Kingfisher); <i>Halcyon smyrnensis</i> (LN: Setokanthe Matikore; EN: White-throated Kingfisher); <i>Metopidius indicus</i> (LN: Lama Aunle; EN: Bronze-winged Jacana); <i>Pseudibis papillosa</i> (LN; Karra Shawari; EN: Black Ibis); <i>Vanellus indicus</i> (LN: Huttityau; EN: Red- wattled Lapwing).</p>
Mammals	<p><i>Lupus nigricollis</i> (LN: Ban Kharayo; EN: Indian Hare); <i>Funambulus pennant</i> (LN: Panch Darke Lokharke; EN: Northern Palm Squirrel); <i>Hystrix indica</i> (LN: Jure Dumsi; EN: Indian Crested Porcopine); <i>Millardia meltada</i> (LN: Makhamali Muso; EN:Common Soft-furred Rat); <i>Bandicota indica</i> (LN:Thulo Dhande Muso; EN:Greater Bandicot-rat); <i>Felis chaus</i> (LN:Ban Biral; EN:Jungle Cat); <i>Canis aureus</i> (LN:Shyal; EN; Golden Jackle); <i>Sus scrofa</i> (LN:Bandel; EN:Wild Boar); <i>Axis axis</i> (LN: Chital; EN:Spotted Deer).</p>
Invasive alien species	<p><i>Ipomoea carnia</i> (LN: Besara m; EN: Shrubby Morning Glory); <i>Ageratum conyzoides</i> (LN: Gandhe; EN: Billy Goat Weed).</p>
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Bahuliya gaon; 100 m from lake; Main Trail: I-Gaun to Bahuliya trail;100m from lake.
Land use	Forestland (10%); Agriculture (80%); Settlement (5%); Other (5%).
Demography	Population: 20,508; Male: 9,681; Female: 10,827; HHs: 3,844; Ethnicity: Brahmin/Chhetri (38.04%); Janajati (44.89%); Dalit (16.87%); Other (0.20%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community Tharu.
Livestock at basin	>1000.
Traditional production system	Fish farming, Patera sells.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fish, Raw patera.
Cultural services	None.

### **E. Restoration/Management**

Structural management                      None.  
Non-structural management                None.  
Conservation plan                            None.  
Monitoring plan                                None.

### **F. Tourism information**

No visitors; Good hotels in Dhangadi Bazar; Motarable road to Phulbari; Transportation services to Phulbari but private vehicles refer to the Bahuliya; Needs promotional activities.

### **G. Lake condition**

Degrading.

#### 4. Badka Lake

Code: P7-D7-004

Toposheet no: 2880 08A

Date of inventory: Jun 4, 2016



##### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.72672575°N; Lon:80.77336594°E; Alt:182 masl.  
Geographical position Terai Range.

Administrative feature

FWDR; Kailali district; Chaumala V.D.C; Ward no. 1; Rajipur.  
(Current: Gauriganga Municipality; Ward no. 4)

Boundary

Core Area: Forest in all directions.

Basin Area: Forest in all directions.

Management responsibility

Khurkhuriya Conservation Committee with the representation of DDC.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

##### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.5oC (Jun/July); Avg. Min:17.7oC (Dec);  
Rainfall:1577mm/yr.  
(www.beautifulfarwestnepal.blogspot.com).

Area

Core Area:3.6 ha; Avg. Length:500 m; Avg. Width:200 m;  
Avg. Depth:2 m; Max-Min Surface Water Level:0.5-3 m;  
Basin Area:48.1 ha.

Water Volume

NA.

Water quality

Physicochemical parameter: Temp: 24oC, pH: 5.9; Electric conductivity: NA. Transparency: 0.5 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: Some species of algae observed.

Major plants in basin

*Shorea robusta* (LN: Sal; HT: Tr; LU: Fur, fuel); *Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Emblica officinalis* (LN: Amala; HT: Tr, LU: Med, Fruit); *Oroxylum indicum* (LN: Tatelo; HT: Tr; LU: Med); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Med).

Fish

*Cetanolaryngodon idella* (LN: Carp; LU: Meat); *Labeo rohita* (EN: Rohu; LU: Meat); *Hypophthalmichthys nobilis* (LN: Carp; LU: Meat)

Herpetofauna

*Bungarus* sps (LN: Karet; EN: Common Krait); *Bufo melanostictus* Schneider (LN: Khasre bhyaguto; EN: Black-spined toad); *Python morulus* (LN: Ajingar; EN: Python).

Birds

*Eudynamis scolopacea* (LN: Koili; EN: Asian Koel); *Psittacula* sps (LN: Suga; EN: Parrot); *Eupupa epops* (LN: Fapre; EN: Hoopoe); *Francolinus francolinus* (LN: Kalotitra);

	EN: Black Francolin); (LN: Dhanes; EN: Grey Hornbill); Coracias bengalensis (LN: Theuwa; EN: Indian Roller); Halcyon smyrnensis (LN: Matikore; EN: Kingfisher).
Mammals	Herpestes sps (LN: Nyarimusa; EN: Mongoose); Canis aurens (LN: Syal; EN: Golden jackal).
Invasive alien species	<i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed); <i>Xanthium strumarium</i> (LN: Bhede kuro; EN: Cockle bur sheep bar); <i>Ageratum conyzoides</i> (LN: Nilo gande; EN: Cheek weed); <i>Casia tora</i> (LN: Kose; EN: Sickie pod).
Endemic plant/animal	None
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Khurkhuriya Gaun; 50m from lake; Main Trail: Mahendra Highway-Chaumala –Khurkhuriya Gaun; 50 m from lake.
Land use	Forestland (90%); Agriculture (9%); Grassland (1%).
Demography	Population: 27,586; Male: 12,729; Female: 14,857; HHs: 5,293; Ethnicity: Brahmin/Chhetri (50%); Janajati (30%); Dalit (18%); Other (2%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community None. Livestock at basin >200.
Traditional production system	Rice Field, Fisheries.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fodder; Medicinal plants.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	>1,000 visitors/yr; Transportable road to Badka Lake; Moderate tourism potential. Needs promotional activities.
<b>G. Lake condition</b>	Degrading.

## 5. Bhairbhuwa Lake

Code: P7-D7-005

Toposheet no: 2880 08D

Date of inventory: Jun 2, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat: 28.60474048°N; Lon: 80.9045048°E; Alt: 151 masl.  
Geographical position Terai Range.

Administrative feature

FWDR; Kailali district; Trishakti Bhajani Municipality; Ward no. 9; Pachmudiya.

Boundary

(Current: Ghodaghodi Municipality; Ward no. 12)

Core Area: Forest in all directions.

Basin Area: Forest in all directions.

Management responsibility

Khurkhuriya Conservation Committee with the representation of DDC. Wetlands type Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp: 40.5oC (Jun/July); Avg. Min: 17.7oC (Dec);  
Rainfall:1577mm/yr.  
(www.beautifulfarwestnepal.blogspot.com).

Area

Core Area: 19.8 ha; Avg. Length:600 m; Avg. Width: 200 m; Avg. Depth: 4 m; Max-Min Surface Water Level:2-6 m; Basin Area:260 ha.

Water Volume

NA.

Water quality

Physicochemical parameter: Temp.:24oC, pH: 5.9; Electric conductivity: N.A. Transparency: 0.5 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: Nymphae sps (LN: Kamal; HT: Ft; LU: Orn); Utricularia australia (LN: Simghas; HT: S m; LU: None); Oryza rufipogon (LN: Jungalidhan; HT: E m; LU: None); Phragmites sps (LN: Narkat; HT; Sr; LU: Fod); Ceratophyllum demersem (LN: Patai; HT: S m; LU: None); Hydrilla sps (LN: Panijhyau; HT: Ff; LU: None).

Major plants in basin

Acacia catechu (LN: Khayar; HT: Tr; LU: Tm, Med); Dalbergia sisoo (LN: Sisoo; HT: Tr; LU: Tm); Shorea robusta (LN: Sal; HT: Tr; LU: Fur, fuel); Synzigium cumini (LN: Jamun; HT: Tr; LU: Tm, Fr); Adena cordifolia (LN: Haldo; HT: Tr; LU: Tm); Emblica officinalis (LN: Amala; HT: Tr, LU: Med, Fruit); Oroxylum indicum (LN: Tatelo; HT: Tr; LU: Med); Bombax ceiba (LN: Simal; HT: Tr; LU: Med);

Fish

Puntius sps (LN: Sedari; LU: Meat); Cetanoharyngodon idella (LN: Carp; LU: Meat); Hypophthalmichthys nobilis (LN: Carp; LU: Meat); Labeo rohita (EN: Rohu; LU: Meat)

Herpetofauna	Euphlyctis cyanophlyctis (LN: Tiktike Paha; EN: Skittring Frog); Buttaphrynus melanostictus (LN: Kalokhasre Bhyaguto; EN: Blackspined Toad); <i>Calotes versicolor</i> (LN: Cheparo; EN: Garden lizard); <i>Varanus bengalensis</i> (LN: Gohoro; EN: Monitor Lizard); Bungarus sps (LN: Karet; EN: Common Krait); Naja naja (LN: Cobra; EN: Common Cobra).
Birds	Ardenola greyii (LN: Sim Bakulla; EN: Pond Heron); Ardea alba (LN: Bakulla; EN: Great Egret); Eudynamis scolopacea (LN: Koili; EN: Asian Koel); Psittacula sps (LN: Suga; EN: Parrot); Eupupa epops (LN: Fapre; EN: Hoopoe); Francolinus francolinus (LN: Kalotitra; EN: Black Francolin); Gallus gallus (LN: Bankukhura; EN: Red Jungle fowl).
Mammals	Herpestes sps (LN: Nyarimusa; EN: Mongoose); Canis aureus (LN: Syal; EN: Golden jackal); Felis bengalensis (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biral; EN: Jungle Cat)
Invasive alien species	<i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory); Ageratina adenophora (LN: Lahare banmara; EN: Crofton weed); Xanthium strumarium (LN: Bhede kuro; EN: Cockle bur sheep bar); Ageratum conyzoides (LN: Nilo gande; EN: Cheek weed); Casia tora (LN: Kose; EN: Sickie pod).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Pachmudiya Gaun; 50m from lake; Main Trail: Mahendra Highway-Bhajani-Khailad- Pachmudiya Gaun; 50 m from lake.
Land use	Forestland (99.57%); Agriculture (0.09%); Grassland (0.34%); Shrubland (0.43%).
Demography	Population: 11,985; Male:5817; Female:6168; HHs:2043; Ethnicity: Brahmin/Chhetri (14.23%); Janajati (69.12%); Dalit (16.35%); Other (0.3%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community None. Livestock at basin >500.
Traditional production system	None
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

>1,000 visitors/yr; Transportable road to Bhairbhuwa Lake; Moderate tourism potential. Needs promotional activities.

### G. Lake condition

Degrading.

## 6. Bhaiswa Lake

Code: P7-D7-006

Toposheet no: 2880 08B

Date of inventory: Jun 3, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:28.70467072°N; Lon:80.9572459°E; Alt:165 masl. Geographical position Terai Range.
Administrative feature	FWDR; Kailali district; Ghodaghodi Municipality; Ward-9; Sadepani.
Boundary	(Current: Ghodaghodi Municipality; Ward no. 8) Core Area: Forest in all directions. Basin Area: Forest in all directions.
Management responsibility	Ghodaghodi Conservation Committee with the representation of DDC. Wetlands type Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp:40.5oC (Jun/July); Avg. Min:17.7oC (Dec); Rainfall:1577mm/yr. ( <a href="http://www.beautifularwestnepal.blogspot.com">www.beautifularwestnepal.blogspot.com</a> ).
Area	Core Area:7 ha; Avg. Length:500 m; Avg. Width:200 m; Avg. Depth:4 m; Max-Min Surface Water Level:2-6 m; Basin Area:9648.4 ha.
Water Volume	NA.
Water quality	Physicochemical parameter: Temp.:24oC, pH:5.9; Electric conductivity: NA; Transparency:0.5 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: <i>Oryza rufipogon</i> (LN: Jungalidhan; HT: E m; LU: None); <i>Phragmites</i> sps (LN: Narkat; HT; Sr; LU: Fod); <i>Ceratophyllum demersum</i> (LN: Patai; HT: S m; LU: None); <i>Hydrilla</i> sps (LN: Panijhyau; HT: Ff; LU: None). Major plants in basin <i>Dalbergia sisoo</i> (LN: Sisoo; HT: Tr; LU: Tm); <i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Fur, fuel); <i>Synzigium cumini</i> (LN: Jamun; HT: Tr; LU: Tm, Fr); <i>Adena cordifolia</i> (LN: Haldo; HT: Tr; LU: Tm); <i>Emblia officinalis</i> (LN: Amala; HT: Tr, LU: Med, Fruit); <i>Oroxylum indicum</i> (LN: Tatelo; HT: Tr; LU: Med); <i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: Med);
Fish	<i>Cetanolaryngodon idella</i> (LN: Carp; LU: Meat); <i>Labeo rohita</i> (EN: Rohu; LU: Meat); <i>Hypophthalmichthys nobilis</i> (LN: Carp; LU: Meat)
Herpetofauna	<i>Bungarus</i> sps (LN: Karet; EN: Common Krait); <i>Bufo melanostictus</i> Schneider (LN: Khasre bhyaguto; EN: Black-spined toad); <i>Python morulus</i> (LN: Ajingar; EN: Python).



Birds	Francolinus francolinus (LN:Kalotitra; EN:Black Francolin); Gallusgallus (LN:Bankukhura; EN:Red Jungle fowl); Passer domesticus (LN:Bhagero; EN:Sparrow); Corvussplendens (LN:Kaag; EN:HouseCrow); Streptopelia Chinensis (LN:Dhukur; EN:Spotted Dove); Dicrurus macrocercus (LN:Chibe; EN:Drongo); Ocyeros birostris (LN:Dhanes; EN:Grey Hornbill); Vanellus indicus (LN:Huttitau; EN:Red-watteled lapwing); Falco tinnunculus(LN:Baa; EN:Common Kestrel); Turdoides striata (LN:Bhyakur; EN:Jungle Babbler).
Mammals	Herpestes sps (LN: Nyarimusa; EN: Mongoose); Canis aurens (LN: Syal; EN: Golden jackal); Felis bengalensis (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Northen palm squirrel; EN: Northen);
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium sps</i> (LN: Banmara; EN: Thoroughwort); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed); <i>Xanthium strumarium</i> (LN: Bhede kuro; EN: Cockle bur sheep bar).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Sadepani Gaun; 50m from lake; Main Trail: Mahendra Highway- Ghodaghodi–Sadepani Gaun; 50 m from lake.
Land use	Forestland (40%); Agriculture (30%); Settlement (18%); Wetlands (2%); Others (10%).
Demography	Population: 27,586; Male:12729; Female:14857; HHs:5293; Ethnicity: Brahmin/Chhetri (49.64%); Janajati (31.66%); Dalit (18.35%); Other (0.35%).Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community None.
Livestock at basin	>500.
Traditional production system	None
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

>1,000 visitors/yr; Transportable road to Sadepani; Moderate tourism potential high. Needs promotional activities.

### G. Lake condition

Degrading.

## 7. Budi Nakror Lake

Code: P7-D7-007

Toposheet no: 2880 08B

Date of inventory: Jun 3, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.71010898°N; Lon:80.96480643°E; Alt:175 masl.  
Geographical position Terai Range.

Administrative feature

FWDR; Kailali district; Ghodaghodi Municipality; Ward-9; Dipnagar.

(Current: Ghodaghodi Municipality; Ward no. 8)

Boundary

Core Area: Forest in all directions.

Basin Area: Forest in all directions.

Management responsibility

Ghodaghodi Conservation Committee with the representation of DDC.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.5oC (Jun/July); Avg. Min:17.7oC (Dec);  
Rainfall:1577mm/yr.

([www.beautifulfarwestnepal.blogspot.com](http://www.beautifulfarwestnepal.blogspot.com)).

Area

Core Area:0.9 ha; Avg. Length:100 m; Avg. Width:50 m;  
Avg. Depth:4 m; Max-Min Surface Water Level:2-6 m;  
Basin Area:9684.4 ha.

Water Volume

NA.

Water quality

Physicochemical parameter: Temp.: 24oC, pH: 5.9; Electric conductivity: NA; Transparency: 0.5 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Nymphaea* sps (LN: Nilkamal; EN: Blue lotus; HT: Ff; LU: Orn); *Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: none).

Major plants in basin

*Shorea robusta* (LN: Sal; HT: Tr; LU: Fur, fuel); *Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Emblica officinalis* (LN: Amala; HT: Tr, LU: Med, Fruit); *Oroxylum indicum* (LN: Tatelo; HT: Tr; LU: Med); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Med).

Fish

*Cetanoaryngodon idella* (LN: Carp; LU: Meat); *Hypophthalmichthys nobilis* (LN: Carp; LU: Meat); *Labeo rohita* (EN: Rohu; LU: Meat)

Herpetofauna

*Bungarus* sps (LN: Karet; EN: Common Krait); *Bufo melanostictus* Schneider (LN: Khasre bhyaguto; EN: Black-spined toad); *Python morulus* (LN: Ajingar; EN: Python).

Birds	Eudynamis scolopacea (LN: Koili; EN: Asian Koel); Psittacula sps (LN: Suga; EN: Parrot); Eupupa epops (LN: Fapre; EN: Hoopoe); Francolinus francolinus (LN: Kalotitra; EN: Black Francolin); (LN: Dhanes; EN: Grey Hornbill); Coracias bengalensis (LN: Theuwa; EN: Indian Roller); Halcyon smyrnensis (LN: Matikore; EN: Kingfisher).
Mammals	Herpestes sps (LN: Nyarimusa; EN: Mongoose); Canis aureus (LN: Syal; EN: Golden jackal).
Invasive alien species	<i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed); <i>Xanthium strumarium</i> (LN: Bhede kuro; EN: Cockle bur sheep bar); <i>Ageratum conyzoides</i> (LN: Nilo gande; EN: Cheek weed); <i>Casia tora</i> (LN: Kose; EN: Sickie pod).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Dipnagar Gaun; 50m from lake; Main Trail: Mahendra Highway-Ghodaghodi-Sadepani Gaun-Dip Gaun; 50 m from lake.
Land use	Forestland (40%); Agriculture (30%); Settlement (18%); Wetlands (2%); Others (10%).
Demography	Population: 616,697; Male: NA; Female: NA; HHs: 504; Ethnicity: Brahmin/Chhetri (21.13%); Janajati (41.53%); Dalit (1.11%); Other (5%). Major Religion: Hinduism. (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>1500.
Traditional production system	None
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

Local visitors; Transportable road to Dipnagar Gaun; High potentiality of local tourism.

### G. Lake condition

Degrading.

## 8. Chamraiya Tal

Code: P7-D7-008

Toposheet no: 2880 07B

Date of inventory: June 03, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.66720636°N; Lon:80.82835247°E; Alt:161 masl.  
Geographical position Terai.

Administrative feature

FWDR; Kailali district; Udasipur VDC.; Ward no. 5;  
Chamraiya.

(Current: Gauriganga Municipality; Ward no. 11)

Boundary

Core Area: Forest in all directions.

Basin Area: Forest in all directions.

Management responsibility

Chamraiya Lake Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50oC (Jun/July); Avg. Min:17.70oC  
(Dec); Rainfall:1577 mm/yr.

Area

Core Area: 14.9ha; Avg. Length: 800 m; Avg. Width:300 m;  
Avg. Depth:2.5 m; Max-Min Surface Water Level:3 m-2 m;  
Basin Area:321.2 ha. Water Volume Peak Period:  
20,437,920 ltr; Dry period: 13,625,280 ltr; Inlet: None;  
Outlet: None.

Water quality

Physicochemical parameter: Temp.: 25oC, pH: 6;  
Transparency: 0.3 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: Azolla sps (LN: Panijhyau; HT: Ff; LU: None);  
Potamogeton nodosus (LN: Panikhar; HT: E m; LU: None);  
Typha angustifolia (LN: Pater; EN: Broadleaf cattletail);  
*Nymphaea stellata* (LN: Nilkamal; EN: Blue lotus; HT: Ff; LU:  
Orn); *Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU:  
none).

Major plants in basin

*Shorea robusta* (LN: sal; HT: Tr; LU: Ful); Synzigium cumini  
(LN: jamun; HT: TR; LU: Tm); Adena cordifolia (LN: Asna;  
HT: Tr; LU: Tm); *Acacia catechu* (LN: Khayar; HT: Tr; LU:  
Tm, Fr); *Dalbergia sisoo* (LN: Sisoo; HT: Hr; LU: Med);  
*Oroxylum indicum* (LN: Tatelo; HT: Tr; LU: Med).

Fish

*Cetanolaryngodon idella* (LN: Carp; LU: Meat); Labeo rohita  
(EN: Rohu; LU: Meat); Hypophthalmichthys nobilis (LN:  
Carp; LU: meat)

Herpetofauna

*Bufo melanostictus* Schneider (LN: Khasre bhyaguto; EN:  
Black-spinedtoad); *Polypedtes maculatus* (LN: Rukh

	Bhyaguto); Python morulus (LN: Ajingar; EN: Python); Ptyas mucosa (LN: Dhaman; EN: Ratsnake).
Birds	<i>Casmerodius albus</i> (LN: Bakulla; EN: Great Egret); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Vanellus indicus</i> (LN: huttityau; EN: Red-watteled lapwing); <i>Falco tinnunculus</i> (LN: Baaj; EN: Common Kestrel); <i>Treron pompadora</i> (LN: Dhukur EN: Pompadour Green Pigeon).
Mammals	<i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennant</i> (LN: Lokharke; EN: Squirrel); <i>Felis viverrina</i> (LN: Malaha biralo; EN: Fishing cat); <i>Vulpes bengalensis</i> (LN: Fushre fauro; EN: Bengal Fox); <i>Semnopithecus hector</i> (LN: Dedu; EN: Terai grey langur).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium</i> sp (LN: Banmara; EN: Thoroughwort); <i>Parthenium hysterophorus</i> (LN: Gajar jhar; EN: famine weed); <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory).
Endemic plant/animal	None.

### **C. Socio-Economy at Basin**

Nearby settlement	Udasipur; 100 m from lake; Main Trail: Mahendra high to Chamala
road; 100 m from lake.	
Land use	Forestland (90%); Agriculture (9%); Wetlands (1%).
Demography	NA.
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	Fish farming; Irrigation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### **D. Ecosystem Goods/Services**

Provisional services	Fodder; Medicinal plants.
Cultural services	None.

### **E. Restoration/Management**

Structural management	Dam, by local community.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

Few visitors; No tourism potential.

### **G. Lake condition**

Degrading.

## 9. Chhaya Tal

Code: P7-D7-009

Toposheet no: 2880 07A

Date of inventory: July 03, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.72225°N; Lon:80.61938°E; Alt:175 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailali district; Dhangadi Sub-metropolitan; Ward no.6; Jaligaon.

Boundary

(Current: Dhangadhi Municipality; Ward no. 6)

Core Area: Forest in all directions.

Management responsibility

Basin Area: Jai to Balami trail in west, Dunga gaon in east, Kurkaiya gaon in south, Chandpur to Ramnagar road in north.

Wetlands type

Chhaya machha palan Samuha.

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp: 40.5oC (Jun/July); Avg. Min: 17.7oC (Dec); Rainfall:1577mm/yr. (www.beautifulfarwestnepal.blogspot.com).

Area

Core Area: 1.4815 ha; Avg. Length:90 m; Avg. Width: 70 m; Avg. Depth: 1.5 m; Max-Min Surface Water Level:2-1 m; Basin Area: 250 ha.

Water Volume

Peak Period: 12,600,000 ltr; Dry period: 3,500,000 ltr; Inlet: None; Outlet: None.

Water quality

Physiochemical parameter: Temp.: 30.7oC, pH:8.2; DO: 4.9mg/l; Transparency: 0.3 m.

Soil feature

Grey color; Clay loam.

Shocks/vulnerability

Water Volume decrease.

Major aquatic plants

Core Area: *Nymphaea stellata* (LN: Nilkamal; EN: Blue lotus; HT: Ff; LU: Orn).

Major plants in basin

*Shorea robusta* (LN: sal; HT: Tr; LU: Tml); *Syzygium cumini* (LN: jamun; HT:TR; LU: Tm, Md); *Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Trewianudiflora* (LN: Vellor; HT: Tr; LU: Fd); *Saccharum spontanum* (LN: Kans; HT: Grass; LU: Fd); *Imperata cylindrica* (LN: Siru; HT: Grass; LU: Fd); *Desmostachya bipinnata* (LN: Kush; HT: Grass; LU: Fd).

Fish

*Cetanolaryngodon idella* (LN: Grass Carp; LU: Meat); Catla catla (LN: Vyakur; LU: Meat). *Hypophthalmichthys nobilis* (EN: Bighead Carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver Carp; LU: Meat); *Labeo rohita* (LN: Rohu; LU: Meat), *Cirrhinus mrigala* (LN: Naini; LU: Meat),

Herpetofauna	Bufo stomaticus (LN: Khatkhyarri Magoba; EN: Assam Toad); Kaloula taprobanica (LN: Byaguyo; EN: Srilanka Bullfrog); Euphlyctis cyanophlyctis (LN: Tik-tike Paha; EN: Skittring Frog); Hoplobatrachus crassus (LN: Sirke Paha; EN: Jerdon's Bullfrog); Pangashura tectum (LN: Kachhuwa; EN: Indian Roofed Turtle); Xenochrophis piscator (LN: Pani Sarpa; EN: Chequered Keelback Watersnake); Amphiesma stolatum (LN: Harara; EN: Buff-stripped Keelback); Naja naja (LN: Goman Sanp; EN: Cobra).
Birds	Phalacrocorax niger (LN: Sano Jalewa; EN: Little Cormorent); Ceryle rudis (LN: Chhirbire Matikore; EN: Pied Kingfisher); Halcyon capensis (LN: Thulo Matikore; EN: Strok-billed Kingfisher); Halcyon smyrnensis (LN: Seto Kanthe Matikore; EN: White-throated Kingfisher); Ichthyophaga ichthyoetus (LN: Machhakul; EN: Grey-headed Fisheagle); Bulbulcus ibis (LN: Bastu Bakulla; EN: Cattle Egret); Casmerodius albus (LN: Thulo Seto Bakulla; EN: Great Egret); Gyps tenuirostris (LN: Sano Khayaro Giddha; EN: Slender-billed Vulture); Pavo cristatus (LN: Majur; EN: Indian Peafowl); Gallus gallus (LN: Luiche; EN: Red Jungle Fowl).
Mammals	Lepus nigricollis (LN: Ban Kharayo; EN: Indian Hare); Funambulus pennant (LN: Panch Darke Lokharke; EN: Northern Palm Squirrel); Millardia meltada (LN: Makhamali Muso; EN: Common Soft-furred Rat); Bandicota indica (LN: Thulo Dhande Muso; EN: Greater Bandicot-rat); Hystrix indica (LN: Jure Dumsi, EN: Indian Crested Porcupine); Panthera pardus (LN: Chituwa; EN: Common Leopard); Canis aureus (LN: Shyal; EN: Golden Jackle); Macaca mulatta (LN: Rato Bandar; EN: Rhesus Monkey); Axis axis (LN: Chital; EN: Spotted Deer); Sus scrofa (LN: Bandel; EN: Wild Boar).
Invasive alien species	Ipomoea carnia (LN: Besara m; EN: Shrubby Morning Glory); Eichhornia crassipes (LN: Jal Kumbhi; EN: Water Hyacinth).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Basanta Tol; 50m from lake; Main Trail: Dhangadi Campus Mod to Kaligaon; 50m from lake.
Land use	Forestland (80%); Grassland (10%); Settlement (5%); Others (5%).
Demography	Population: 101,970; Male: 51,439; Female: 50,531; HHs: 21,030; Ethnicity: Brahmin/Chhetri (51.44%); Janajati (34.91%); Dalit (8.72%); Other (4.93%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	Tharu.
Livestock at basin	>1000.
Traditional production system	Fish farming and irrigation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fish farming by locals.
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Cultural services

None.

**E. Restoration/Management**

Structural management

None (Boundary Maintaining).

Non-structural management

None (Cleaning the pond).

Conservation plan

None.

Monitoring plan

None.

**F. Tourism information**

>500 visitors/year; Good hotels in Dhangadi Bazar; Motarable road Kaligaon; Transportation services to Campus Mod but private vehicles refer to the Kaligaon; Needs promotional activities.

**G. Lake condition**

Degrading.



## 10. Chharra Tal

Code: P7-D7-010

Toposheet no: 2880 12B

Date of inventory: June 2, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.49616909°N; Lon:80.91797489°E; Alt:150 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailali district; Trishakti- Bhajani Municipality; Ward no. 3; Khailad.

Boundary

(Current: Bhajani Municipality; Ward no. 9)

Core Area: Forest in east, farmland in other directions.

Basin Area: Forest in all directions.

Management responsibility

Chharra Lake Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50°C (Jun/July); Avg. Min:17.70°C (Dec)  
Rainfall:1577mm/yr  
([www.beautifulfarwestnepal.blogspot.com](http://www.beautifulfarwestnepal.blogspot.com)).

Area

Core Area:3.3ha; Avg. Length:130 m; Avg. Width:70 m;  
Avg. Depth:3 m; Max-Min Surface Water Level:4 m-2 m;  
Basin Area:101.2 ha.

Water Volume

Peak Period: 1,033,250 ltr; Dry period: 255,474 ltr; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp.:25°C, pH:6;  
Transparency:0.3 m.

Soil feature

Dark color; Clay loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Ludwigia adscendes* (LN: Jadelo; HT: E m; LU: None); *Utricularia australia* (LN: Simghas; HT: S m; LU: None); *Oryza rufipogon* (LN: Jungalidhan; HT: E m; LU: None); *Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: none).

Major plants in basin

*Shorea robusta* (LN: sal; HT: Tr; LU: Ful); *Synzigium cumini* (LN: jamun; HT:TR; LU: Tm); *Adena cordifolia* (LN: Asna; HT: Tr; LU: Tm); *Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm, Fr); *Dalbergia sisoo* (LN: Sisoo; HT: Hr; LU: Med).

Fish

*Puntius* sps (LN: Sedari; LU: Meat); *Cetanolaryngodon idella* (LN: Carp; LU: Meat); *Ctenopharyngodon idella* (LN: Carp; LU: Meat)

Herpetofauna

*Bungarus* sps (LN: Karet; EN: CommonKrait); *Ptyas mucosa* (LN: Dhaman; EN: Ratsnake); *Bufo melanostictus* Schneider (LN: Khasre bhyaguto; EN: Black-spined toad);

	Hoplobatrachus crassus (LN: Sirke Paha; EN: Jerdon's bull frog); Amolops marmoratus (LN: Tite Paha); <i>Varanus bengalensis</i> (LN: Bhainse; EN: Monitor lizard); <i>Polypedtes maculatus</i> (LN: Rukh Bhyaguto).
Birds	Streptopelia Chinensis (LN: Dhukur; EN: Spotted Dove); Dicrurus macrocercus (LN: Chibe; EN: Drongo); Ocyrceros birostris (LN: Dhanes; EN: Grey Hornbill); Coracias bengalensis (LN: Theuwa; EN: Indian Roller); Halcyon smyrnensis (LN: Matikore; EN: Kingfisher); <i>Casmerodius albus</i> (EN: Great Egret); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); Vanellus indicus (LN: Huttititau; EN: Red-wattled lapwing); Falco tinnunculus (LN: Baaj; EN: Common Kestrel).
Mammals	Felis bengalensis (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biral; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Northen palm squirrel; EN: Northen); <i>Felis viverrina</i> (LN: Malaha biral; EN: Fishing cat); <i>Sus scrofa</i> . (LN: Badel; EN: Wild Boar).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); Eupatorium sp (LN: Banmara; EN: Thoroughwort); <i>Parthenium hysterophorus</i> (LN Gajar jhar; EN: Famine weed); <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Khailad; 80 m from lake; Main Trail: Khailad to Bhajani road; 80 m from lake.
Land use	Forestland (97.60%); Agriculture (0.48%); Grassland (0.18%); Barrenland (1.73%).
Demography	Population: 11,985; Male: 5,817; Female: 6,168; HHs:2043; Ethnicity: Brahmin/Chhetri (14.23%); Janajati (66.24%); Dalit (16.35); Other (1.18%). Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community None.
Livestock at basin	>500.
Traditional production system	Fish farming, irrigation, Fodder, Medicinal plants.
Traditional water use practices	None.
Cultural record	None.

Genesis/origin of lake None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	None.

### E. Restoration/Management

Structural management	Dam, by local community.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No visitors; Needs promotional activities and awareness.

### G. Lake condition

Degrading.

## 11. Chiriya Lake

Code: P7-D7-011

Toposheet no: 2880 08B

Date of inventory: Jun 3, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:28.71984404°N; Lon:80.97063476°E; Alt:183 masl. Geographical position Terai Range.
Administrative feature	FWDR; Kailali district; Ghodaghodi Municipality; Ward-1; Sitpur.
Boundary	(Current: Ghodaghodi Municipality; Ward no. 8) Core Area: Forest in North and South direction, Sitapur village in east and Belkot Gaun in west. Basin Area: Forest in North and South direction, Sitapur village in east and Belkot Gaun in west.
Management responsibility	Ghodaghodi Conservation Committee with the representation of DDC.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp:40.5oC (Jun/July); Avg. Min:17.7oC (Dec); Rainfall:1577mm/yr. ( <a href="http://www.beautifulfarwestnepal.blogspot.com">www.beautifulfarwestnepal.blogspot.com</a> ).
Area	Core Area: 2.5 ha; Avg. Length: 500 m; Avg. Width: 200 m; Avg. Depth: 4 m; Max-Min Surface Water Level:2-6 m; Basin Area: 9684.4 ha.
Water Volume	NA.
Water quality	Physicochemical parameter: Temp.: 24oC, pH: 5.9; Electric conductivity: N.A. Transparency: 0.5 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: Few sps of algae were observed. None.
Major plants in basin	<i>Shorea robusta</i> (LN: sal; HT: Tr; LU: Ful); <i>Synzigium cumini</i> (LN: jamun; HT:TR; LU: Tm); <i>Adena cordifolia</i> (LN: Asna; HT: Tr; LU: Tm); <i>Acacia catechu</i> (LN: Khayar; HT: Tr; LU: Tm); <i>Dalbergia sisoo</i> (LN: Sisoo; HT: Hr; LU: Med).
Fish	NA.
Herpetofauna	<i>Bufo melanostictus</i> Schneider (LN: Khasre bhyaguto; EN: Black-spined toad); <i>Hoplobatrachus crassus</i> (LN: Sirke Paha; EN: Jerdon's bull frog); <i>Amolops marmoratus</i> (LN: Tite Paha); <i>Varanus bengalensis</i> (LN: Bhainse; EN: Monitor lizard); <i>Polypedtes maculates</i> (LN: Rukh Bhyaguto); <i>Lissemys punctata andersoni webb</i> (LN: PuTali kachuwa; EN: North Indian flapshell turtle); <i>Python morulus</i> (LN:

	Ajingar; EN: Python); <i>Ptyas mucosa</i> (LN: Dhaman; EN: Ratsnake).
Birds	<i>Casmerodius albus</i> (LN: Thulo seto bakulla; EN: Great Egret); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Vanellus indicus</i> (LN: Huttititau; EN: Red-wattled lapwing); <i>Falco tinnunculus</i> (LN: Baaj; EN: Common Kestrel); <i>Treron pompadora</i> (LN: Dhukur EN: Pompadour Green Pigeon).
Mammals	<i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: squirrel).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium</i> sp (LN: Banmara; EN: Thoroughwort).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Sitapur Gaun; 50m from lake; Main Trail: Mahendra Highway-Ghodaghodi-Sadepani Gaun-Dip Gaun-Sitapur Gaun; 50 m fromlake.
Land use	Forestland (69%); Agriculture (22%); Wetlands (2%); Others (3%); Grassland (3%); Shrubland (1%).
Demography	Population: 27,586; Male:12729; Female:14857; HHs:5293; Ethnicity: Brahmin/Chhetri (49.64%); Janajati (31.66%); Dalit (18.35%); Other (0. 35%).Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community None.
Livestock at basin	>1500.
Traditional production system	None
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fodder; Medicinal plants.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	Few visitors; Transportable road to Sitpur; Low tourism potential.
<b>G. Lake condition</b>	
	Degrading.

## 12. Dubri Tal

Code: P7-D7-012

Toposheet no: 2880 08A

Date of inventory: June 03, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.66643551°N; Lon:80.79703088°E; Alt:154 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailali district; Udasipur VDC.; Ward no. 7; Dudhiya.  
(Current: Kailari Rural Municipality; Ward no. 9)

Boundary

Core Area: School in east; forest in other directions.

Basin Area: Forests in all direction.

Management responsibility

Dudhiya Lake Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50oC (Jun/July); Avg. Min:17.70oC (Dec); Rainfall:1577 mm/yr.

Area

Core Area:1.8ha; Avg. Length:100 m; Avg. Width:60 m;  
Avg. Depth:2.5 m; Max-Min Surface Water Level:3 m-2 m;  
Basin Area:96.2

Water Volume

Peak Period: 510,948 ltr; Dry period: 340,632 ltr; Inlet:  
None; Outlet: None.

Water quality

Physicochemical parameter: Temp.:25oC, pH:6;  
Transparency:0.3 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: Ceratophyllum demersum (LN: Patai; HT: S m;  
LU: None); Hydrilla sps (LN: Panijhyau; HT: Ff; LU: None).

Major plants in basin

*Shorea robusta* (LN: Sal; HT: Tr; LU: Fur, fuel); *Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Emblica officinalis* (LN: Amala; HT: Tr, LU: Med, Fruit); *Oroxylum indicum* (LN: Tatelo; HT: Tr; LU: Med); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Med).

Fish

*Cetanolaryngodon idella* (LN: Carp; LU: Meat); *Hypophthalmichthys nobilis* (LN: Carp; LU: Meat); *Labeo rohita* (EN: Rohu; LU: Meat) Herpetofauna *Bungarus* sps (LN: Karet; EN: Common Krait); *Bufo melanostictus* Schneider (LN: Khasre bhyaguto; EN: Black-spined toad); *Python morulus* (LN: Ajingar; EN: Python).

Birds

*Eudynamis scolopacea* (LN: Koili; EN: Asian Koel); *Psittacula* sps (LN: Suga; EN: Parrot); *Eupupa epops* (LN: Fapre; EN: Hoopoe); *Francolinus francolinus* (LN: Kalotitra; EN: Black Francolin); (LN: Dhanes; EN: Grey Hornbill);

Mammals	Coracias bengalensis (LN: Theuwa; EN: Indian Roller); Halcyon smyrnensis (LN: Matikore; EN: Kingfisher).
Invasive alien species	Herpestes sps (LN: Nyarimusa; EN: Mongoose); Canis aurens (LN: Syal; EN: Golden jackal). <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed); <i>Xanthium strumarium</i> (LN: Bhede kuro; EN: Cockle bur sheep bar); <i>Ageratum conyzoides</i> (LN: Nilo gande; EN: Cheek weed); <i>Casia tora</i> (LN: Kose; EN: Sickie pod).
Endemic plant/animal	None
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Dudhiya; 100 m from lake; Main Trail: Hasuliya to Dudhiya gaun road; 100 m from lake.
Land use	Forestland (8975%); Agriculture (1%); Wetland (10%).
Demography	Population: 9,304; Male: 4,474; Female: 4,830; HHs: 1,492; Ethnicity: Brahmin/Chhetri (22.97%); Janajati (70%); Dalit (6.35%); Other (0.4%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community None.
Livestock at basin	>700.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fodder; Medicinal plants, Timber.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	Dam, by local community.
\Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	Only local visitors; Few teashops at hotel site; No tourism potential.
<b>G. Lake condition</b>	
	Degrading.

### 13. Dudhawa Tal

Code: P7-D7-013  
Toposheet no:2880 12B  
Date of inventory: July 8, 2016



#### A. General Feature

Conservation status None.  
Geographical coordination Lat:28.45083°N; Lon:80.98029°E; Alt:137 masl.  
Geographical position Tarai.  
Administrative feature FWDR; Kailali district; Trishakti-Bhajani Municipality; Ward no.1; Dudhawa Gaon.  
Boundary (Current: Bhajani Municipality; Ward no. 5)  
Core Area: Paddy field in west; Trishakti-Bajani road in other directions.  
Basin Area: Kandra Nadi in North; India in south; Piparawa Tal in east; Mohana oxbow lake in west.  
Management responsibility Trishakti-Bhajani Municipality.  
Wetlands type Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature Avg. Max: Temp:40.5oC (Jun/July); Avg. Min:17.7oC (Dec);  
Rainfall:1577mm/yr.  
([www.beautifulfarwestnepal.blogspot.com](http://www.beautifulfarwestnepal.blogspot.com)).  
Area Core Area:4.41ha; Avg. Length:250 m; Avg. Width:40 m;  
Avg. Depth:1 m; Max-Min Surface Water Level:1.5-0.5 m;  
Basin Area:80 ha.  
Water Volume Peak Period: 18,000,000 ltr; Dry period: 1,500,000 ltr;  
Inlet: None; Outlet: None.  
Water quality Physiochemical parameter: Temp.:36.8oC, pH:8.9;  
DO:4.3mg/l; Transparency: 0.4m.  
Soil feature Red color; Clay loam.  
Shocks/vulnerability Water Volume decrease.  
Major aquatic plants Core Area: None.  
Major basin plants *Syzygium cumini* (LN: jamun; HT:TR; LU: Tm, Md);  
*Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Trewia nudiflora* (LN: Vellor; HT: Tr; LU: Fd); *Eucalyptus alba* (LN: Masala; HT: Tr; LU: Tm); *Zizyphus rugosa* (LN: Rukh Bayar; HT: Tr; LU: Med).  
Fish *Cetanotharyngodon idella* (LN: Grass Carp; LU: Meat);  
*Hypophthalmichthys nobilis* (EN: Bighead Carp; LU: Meat);  
*Hypophthalmichthys molitrix* (LN: Silver Carp; LU: Meat);  
*Labeo rohita* (LN: Rohu; LU: Meat), *Cirrhinus mrigala* (LN: Naini; LU: Meat), *Catla catla* (LN: Vyakur; LU: Meat).  
Herpetofauna *Euphlyctis cyanophlyctis* (LN:Tik-tike Paha; EN:Skittering Frog);  
*Hoplobatrachus crassus* (LN:Sirke Paha; EN:Jerdon's Bullfrog);  
*Xenochrophis piscator* (LN:Pani Sarpa; EN:Chequered Keelback Watersnake);  
*Varanus flavescens*

	(LN:Sun Gohoro; EN:Golden Monitor Lizard); <i>Indotestudo elongata</i> (LN:Kachhuwa; EN:Yellow-headed Tortoise); <i>Asynblepharus sikimensis</i> (LN:Chikni Girgit; EN:Sikkem Skink); <i>Naja naja</i> (LN:Goman Sarpa; EN:Spectacled Cobra); <i>Naja Kaouthia</i> (LN:Goman; EN:Monocled Cobra); <i>Bungarus caeruleus</i> (LN:Karet Sarpa; EN:Common Krait); <i>Xenochrophis piscator</i> (LN:Pani Sarpa; EN:Chequered Keelback Watersnake).
Birds	<i>Ceryle rudis</i> (LN: Chhirebire Matikore; EN: Pied Kingfisher); <i>Phalacrocorax niger</i> (LN: Sano Jalewa; EN: Little Cormorent); <i>Bulbulcus ibis</i> (LN: Bastu Bakulla; EN: Cattle Egret); <i>Halcyon capensis</i> (LN: Thulo Matikore; EN: Strob-billed Kingfisher); <i>Halcyon smyrnensis</i> (LN: Setokanthe Matikore; EN: White-throated Kingfisher); <i>Ichthyophaga ichthyaetus</i> (LN; Machhakul; EN: Grey-headed Fisheagle); <i>Coracias beglalensis</i> (LN: Theuwa; EN: Indian Roller).
Mammals	<i>Lupus nigricollis</i> (LN: Ban Kharayo; EN: Indian Hare); <i>Funambulus pennant</i> (LN: Panch Darke Lokharke; EN: Northern Palm Squirrel); <i>Hystrix indica</i> (LN: Jure Dumsi; EN: Indian Crested Porcopine); <i>Millardia meltada</i> (LN: Makhamali Muso; EN: Common Soft-furred Rat); <i>Bandicota indica</i> (LN: Thulo Dhande Muso; EN: Greater Bandicot- rat); <i>Canis aureus</i> (LN: Shyal; EN; Golden Jackle).
Invasive alien species	<i>Ipomoea carnea</i> (LN: Besara m; EN: Shrubby Morning Weed). Endemic plant/animal None.

### C. Socio-Economy at Basin

Nearby settlement	Dudhawaphant; 20m from lake; Main Trail: Tikunihya-Bhajani road;20m from lake.
Land use	Forestland (5%); Grassland (5%); Farmland (70%); Settlement (15%); Other (5%).
Demography	Population: 11,247; Male: 5,643; Female: 5,604; HHs: 1,818; Ethnicity: Brahmin/Chhetri (23.09%); Janajati (46.90%); Dalit (12.12%); Other (17.89%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	Tharu.
Livestock at basin	>500.
Traditional production system	Fish farming.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fish farming by locals.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.



**F. Tourism information**

Novisitors; Good hotels in Bhajani Bazar; Motarable road to Bhajani; Transportation services to Bhajani Bazar; Needs promotional activities.

**G. Lake condition**

Degrading.

## 14. Faurahauwa Tal

Code: P7-D7-014

Toposheet no: 2880 08A

Date of inventory: June 05, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat: 28.51771988°N; Lon: 80.88730487°E; Alt: 150 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailali district; Ratanpur VDC.; Ward-7; Ratanpur.  
(Current: Kailari Rural Municipality; Ward no. 7)

Boundary

Core Area: Forest in west and south; Ratanpur Gaun in North; Barren land in east.

Management responsibility

Basin Area: Forest in all directions.

Ratanpur Lake Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Seasonal.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50oC (Jun/July); Avg. Min:17.70oC (Dec); Rainfall:1577 mm/yr.

Area

Core Area: 1ha; Avg. Length:70 m; Avg. Width:50 m; Avg. Depth:2 m; Max-Min Surface Water Level: 2.5 m-1.5 m; Basin Area: 23.4 ha.

Water Volume

Peak Period: 248, 3778 ltr; Dry period: 102,190 ltr; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp.:25oC, pH:6; Transparency:0.3 m.

Soil feature

Dark color; Clay loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: None.

Major plants in basin

*Shorea robusta* (LN: Sal; HT: Tr; LU: Ful); *Synzigium cumini* (LN: jamun; HT:TR; LU: Tm); *Adena cordifolia* (LN: Asna; HT: Tr; LU: Tm); *Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm); *Dalbergia sisoo* (LN: Sisoo; HT: Hr; LU: Med).

Fish

None.

Herpetofauna

*Bufo melanostictus* (LN: Khasre bhyaguto; EN: Black-spinedtoad); *Polypedtes maculates* (LN: Rukh Bhyaguto); *Ptyas mucosa* (LN: Dhaman; EN: Ratsnake).

Birds

*Casmerodius albus* (EN: Great Egret); *Halcyon pileata* (LN: Fisto; EN: Yellow-cheeked Tit); *Vanellus indicus* (LN: Huttititau; EN: Red- watteded lapwing); *Falco tinnunculus* (LN: Baaj; EN: Common Kestrel); *Treron pompadora* (LN: Dhukur EN: Pompadour Green Pigeon); *Turdoides striata* (LN: Bhyakur; EN: Jungle Babbler).

Mammals

*Felis bengalensis* (LN: Charibagh; EN: Leopard Cat); *Lutra lutra* (LN: Oont; EN: Common Otter); *Macaca mulatta* (LN: Bandar; EN: Rhesus Macaque); *Felis chaus* (LN: Ban Biralo;

Invasive alien species	EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: squirrel). <i>Lantana camara</i> (LN: Maleria; EN: Tickberry); Eupatorium sp (LN: Banmara; EN: Thoroughwort).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Ratanpur; 40 m from lake; Main Trail: Highway to Ratanpur road; 50m from lake.
Land use	Forestland (84%); Agriculture (1%); Grassland (2); (10%); Barrenland (13%).
Demography	Population: 6,979; Male: 3,509; Female: 3,470; HHs: 1,187; Ethnicity: Brahmin/Chhetri (2.42%); Janajati (96.17%); Dalit (0.80%); Other (0.61%). Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fodder; Drinking water for cattle.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	No visitors. No tourism potential.
<b>G. Lake condition</b>	Degrading.

## 15. Gaichkatuwa Lake

Code: P7-D7-015

Toposheet no: 2880 08B

Date of inventory: Jun 2, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.7137492°N; Lon:80.96543057°E; Alt:177 masl.

Geographical position

Terai Range.

Administrative feature

FWDR; Kailali district; Ghodaghodi Municipality; Ward-8; Dipnagar.

(Current: Ghodaghodi Municipality; Ward no. 8)

Boundary

Core Area: Forest in all directions.

Basin Area: Forest in all directions.

Management responsibility

Ghodaghodi Conservation Committee with the representation of

DDC.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.5°C (Jun/July); Avg. Min:17.7°C (Dec);  
Rainfall:1577mm/yr.  
([www.beautifulfarwestnepal.blogspot.com](http://www.beautifulfarwestnepal.blogspot.com)).

Area

Core Area:5.4 ha; Avg. Length:200 m; Avg. Width:80 m;  
Avg. Depth:4 m; Max-Min Surface Water Level:2-6 m;  
Basin Area:9648.4 ha.

Water Volume

NA.

Water quality

Physicochemical parameter: Temp.:24°C, pH:5.9; Electric conductivity: N.A. Transparency: 0.5 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: Some species of algae were observed. None.

Major plants in basin

*Shorea robusta* (LN: sal; HT: Tr; LU: Ful); *Synzigium cumini* (LN: jamun; HT:TR; LU: Tm); *Adena cordifolia* (LN: Asna; HT: Tr; LU: Tm); *Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm); *Dalbergia sisoo* (LN: Sisoo; HT: Hr; LU: Med).

Fish

NA.

Herpetofauna

*Bufo melanostictus* (LN: Khasre bhyaguto; EN: Black-spined toad); *Hoplobatrachus crassus* (LN: Sirke Paha; EN: Jerdon's bull frog); *Python morulus* (LN: Ajingar; EN: Python); *Ptyas mucosa* (LN: Dhaman; EN: Ratsnake).

Birds

*Casmerodius albus* (EN: Great Egret); *Halcyon pileata* (LN: Fisto; EN: Yellow-cheeked Tit); *Vanellus indicus* (LN: huttititau; EN: Red-wattled lapwing); *Falco tinnunculus* (LN: Baaj; EN: Common Kestrel).

Mammals	<i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: squirrel).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); Eupatorium sp (LN: Banmara; EN: Thoroughwort).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Dipnagar; 50m from lake; Main Trail: Mahendra Highway-Ghodaghodi-Sadepani Gaun-Dip Gaun; 50 m from lake.
Land use	Forestland (69%); Agriculture (22%); Wetlands (2%); Others (3%); Grassland (3%); Shrubland (1%).
Demography	Population: 616,697; Male:NA; Female:NA; HHs:504; Ethnicity: Brahmin / Chhetri (21.13%); Janajati (41.53%); Dalit (1.11%); Other (5%). Major Religion: Hinduism. (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>200.
Traditional production system	None
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fodder; Medicinal plants.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
	Few visitors; Transportable road to Dip Gaun; Tourist potential high. Needs promotional activities.
<b>G. Lake condition</b>	
	Degrading.

## 16. Ghod Tal

Code: P7-D7-016

Toposheet no: 2787-16 B

Date of inventory: May 22, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.58402067°N; Lon:80.90885561°E; Alt:155 masl.  
Geographical position Terai Zone.

Administrative feature

FDR; Kailali district; Trishakti bhajani Municipality; Ward-9; Himatpur.

Boundary

(Current: Bhajani Municipality; Ward no. 9)

Core Area: Forest in all directions.

Basin Area: Forest in all directions.

Management responsibility

Ghodaghodi Conservation Committee with the representation of DDC.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:30.56°C (Jun/July); Avg. Min:17.52°C (Dec); Rainfall: 1850.67 mm/yr. (District climate and energy plan of kailali).

Area

Core Area:36 ha; Avg. Length:200 m; Avg. Width:130 m; Avg. Depth:8.5 m; Max-Min Surface Water Level:9-6.5 m; Basin Area:382.5 ha.

Water Volume

NA.

Water quality

Physicochemical parameter: Temp.:10°C, pH:6.7; Electric conductivity: 6.7. (Source: Mgmt plan of Ghodaghodi management team 2012); Transparency:0.5 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: Azolla sps (LN: Panijhyau; HT: Ff; LU: None); Potamogeton nodosus (LN: Panikhar; HT: E m; LU: None); Ludwigia adscendes (LN: Jadelo; HT: E m; LU: None); Utricularia australia (LN: Simghas; HT: S m; LU: None).

Major plants in basin

*Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm, Med); *Dalbergia sisoua* (LN: Sisoo; HT: Tr; LU: Tm); *Shorea robusta* (LN: Sal; HT: Tr; LU: Fur, fuel); *Synzigium cumini* (LN: Jamun; HT: Tr; LU: Tm, Fr); *Adena cordifolia* (LN: Hald; HT: Tr; LU: Tm); *Emblica officinalis* (LN: Amala; HT: Tr, LU: Med, Fruit); *Oroxylum indicum* (LN: Tatelo; HT: Tr; LU: Med); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Med); *Butea monosperma* (LN: Palash; HT: Tr; LU: Tm, Rel); *Terminalia chebula* (LN: Harro; LU: Med); *Terminalia bellirica* (LN: Barro; HT: Tr; LU: Med); *Terminalia elliptica* (LN: Saanj; HT: Tr; LU: Tm, Fuel). *Trewia nudiflora* (LN: Ghuthel; HT: Tr; LU: Fod).

Fish	Puntius sps (LN: Sedari; LU: Meat); <i>Cetanolaryngodon idella</i> (LN: Carp; LU: Meat); <i>Hypophthalmichthys nobilis</i> (LN: Carp; LU: Meat); <i>Labeo rohita</i> (EN: Rohu; LU: Meat)
Herpetofauna	<i>Euphlyctis cyanophlyctis</i> (LN: Tiktike Paha; EN: Skittling Frog); <i>Buttaphrynus melanostictus</i> (LN: Kalokhasre Bhyaguto; EN: Blackspined Toad); <i>Calotes versicolor</i> (LN: Cheparo; EN: Garden lizard); <i>Varanus bengalensis</i> (LN: Gohoro; EN: Monitor Lizard); <i>Bungarus</i> sps (LN: Karet; EN: Common Krait); <i>Bufo melanostictus</i> Schneider (LN: Khasre bhyaguto; EN: Black-spined toad); <i>Python morulus</i> (LN: Ajingar; EN: Python); <i>Naja naja</i> (LN: Cobra; EN: Common Cobra);
Birds	<i>Anas acuta</i> (LN:Haans; EN:Pintail Duck); <i>Ciconia ciconia</i> (LN:Bhudiphor; EN:White Stork); <i>Gallinula chloropus</i> (LN:Bagale Simkukhura; EN:Common Moorhen); <i>Eudynamis scolopacea</i> (LN:Koili; EN:Asian Koel); <i>Psittacula</i> sps (LN:Suga; EN:Parrot); <i>Eupupa epops</i> (LN:Fapre; EN:Hoopoe); <i>Francolinus francolinus</i> (LN:Kalotitra; EN:Black Francolin); <i>Halcyon smyrnensis</i> (LN:Matikore; EN:Kingfisher); <i>Leophronpercnopterus</i> (LN:Seto giddha; EN:Egyptian vulture); <i>Casmerodius albus</i> (LN: Bastu Bakulla, EN:Great Egret); <i>Halcyon pileata</i> (LN:Fisto; EN:Yellow-cheeked Tit); <i>Vanellus indicus</i> (LN:huttityau; EN:Red-watteled lapwing).
Mammals	<i>Herpestes</i> sps (LN: Nyarimusa; EN: Mongoose); <i>Canis aureus</i> (LN: Syal; EN: Golden jackal); <i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biral; EN: Jungle Cat)
Invasive alien species	<i>Aescynomene</i> sps (LN: Khekri; EN: Curly Indigo); <i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium</i> sps (LN: Banmara; EN: Thoroughwort), <i>Parthenium hysterophorus</i> (LN: Gajar jhar; EN: Famine weed); <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Sukkad Bazzari; 100 m from lake; Main Trail: Mahendra highway; close to the lake.
Land use	Forestland (96.39%); Agriculture (3%); Grassland (0.23%); Shrubland (0.37%).
Demography	Population: 11,985; Male:5817; Female:6168; HHs:2043; Ethnicity: Brahmin/Chhetri (14.23%); Janajati (69.12%); Dalit (16.35%); Other (0.3%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community None. Livestock at basin >23,500.
Traditional production system	Traditional farming including cashcrop & medicinal plant. Traditional water use practices Religious/ritual pond.
Cultural record	Sidda Baba temple at basin.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
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Cultural services

Religious; Educational.

**E. Restoration/Management**

Structural management

None.

Non-structural management

Formal restriction. Conservation plan None.

Monitoring plan

None.

**F. Tourism information**

>1500 visitors/yr; Few good hotels in lake site; Motarable road to sukkad Bazar; Good hotel and transportation services from sukkahad Bazar; Moderate tourism potential. Needs promotional activities.

**G. Lake condition**

Degrading.



## 17. Ghodaghodi Tal

Code: P7-D7-017

Toposheet no: 2787 - 16 B

Date of inventory: May 22, 2016



### A. General Feature

Conservation status	Ramsar site
Geographical coordination	Lat:28.68791978°N; Lon:80.79703088°E; Alt:154 masl. Geographical position Terai Zone.
Administrative feature	FDR; Kailali district; Ghodaghodi Tal, Ghodaghodi nagarpalika; ward no. 5, Darakh VDC.
Boundary	(Current: Ghodaghodi Municipality; Ward no. 5) Core Area: Forest in all directions. Basin Area: Tropical Deciduos forest and small streams and ponds in all direction.
Management responsibility	Ghodaghodi Conservation Committee with the representation of DDC.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp:30.56oC (Jun/July); Avg. Min:17.52oC (Dec); Rainfall:1850.67 mm/yr. (District climate and energy plan of kailali).
Area	Core Area:78.1 ha; Avg. Length:200 m; Avg. Width:130 m; Avg. Depth:8.5 m; Max-Min Surface Water Level:9-6.5 m; Basin Area:9648.4 ha.
Water Volume	NA.
Water quality	Physicochemical parameter: Temp.:10oC, pH:6.7; Electric conductivity:6.7. (Source: Mgmt plan of Ghodaghodi management team 2012); Transparency:0.5 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: Ludwigia adscendes (LN: Jadelo; HT: E m; LU: None); Utricularia australia (LN: Simghas; HT: S m; LU: None); Nelumbonucifera (LN: kamal; HT: Ff; LU: None); Mariscus sp. (LN: karaunte grass; HT: Ff; LU: none); Hygrorrhiza aristata (LN: Jangali Dhan; EN: Wild Rice).
Major plants in basin	<i>Shorea robusta</i> (LN: sal; HT: Tr; LU: Ful); <i>Adina cordifolia</i> (LN: Asna; HT: Tr; LU: Tm); <i>Acacia catechu</i> (LN: Khayar; HT: Tr; LU: Tm, Fr); <i>Dalbergia sisoo</i> (LN: Sisoo; HT: Hr; LU: Med); <i>Lagerstroemiaparviflora</i> (LN: Bot Dharayo; HT:TR; LU: Tm); <i>Ougeinia dalbergioides</i> (LN: Sandan, HT: Tr; LU: Tm, Fod); <i>Terminalia alata</i> (LN: Sanjh; HT: Tr; LU: Tm); <i>Syzygium cumini</i> (LN: Jamun; HT: Tr; LU: Fod, Tm); 1 species of Orchid was recorded <i>Aderides odorata</i> . (Source: Mgmt. Plan of Ghodaghodi Site 2012).

Fish	Puntius sps (LN: Sedari; LU: Meat); Notopterus notopterus (LN: Chuche; LU: Meat); Oxygaster bacaila (LN: Chela; LU: Meat); <i>Cetanolaryngodon idella</i> (LN: Carp; LU: Meat); Hypophthalmichthys nobilis (LN: Carp; LU: Meat); Labeo rohita (EN: Rohu; LU: Meat); 29 sps of fishes are recorded.
Herpetofauna	Crocodylus palustris (LN: Muggar; EN: Mugar crocodile); Indotestudo elongate (LN: Kachhuwa; EN: Yellow/headed Tortoise). <i>Varanus bengalensis</i> (LN: Gohoro; EN: Monitor Lizard); Euphlyctis cyanophlyctis (LN: Tiktike Paha; EN: Skittring Frog); Buttaphrynus melanostictus (LN: Kalokhasre Bhyaguto; EN: Blackspined Toad); Bungarus sps (LN: Karet; EN: Common Krait); <i>Bufo melanostictus</i> Schneider (LN: Khasre bhyaguto; EN: Black-spined toad); Python morulus (LN: Ajingar; EN: Python); Naja naja (LN: Cobra; EN: Common Cobra); 9 sps of herpetofauna are recorded.
Birds	Ketupa zeylonensis (LN:Latokosero; EN:Brown fish Owl); Oxyceros birostris (LN:EN:Grey Hornbill); Anas acuta (LN:Haans; EN:Pintail Duck); Ciconia ciconia (LN:Bhudiphor; EN:White Stork); Bubo bubo (LN:Latokosero; EN:Eurasian Eagle Owl); Gallinula chloropus (LN:Bagale Simkukhura; EN:Common Moorhen); Aythya nyroca (LN:hans; EN:ferruginous duck); Anthracoceros coronatus (LN:kalo dhanes; EN:Oriental pied hornbill); Leptoptilos javanicus(LN:Garud; EN:Lesser adjutant); 96 sps of birds were recorded.
Mammals	Rucervus sps (LN: Barhasingha; EN: Swamp Deer); Panthera pardus (LN: Bagh; EN: Tiger); Felis bengalensis (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Northen palm squirrel; EN: Northen); <i>Felis viverrina</i> (LN: Malaha biralo; EN: Fishing cat); <i>Sus scrofa</i> . (LN: Badel; EN: Eurasian wild Boar); Axis axis (LN: Chittal; EN: Spotted dear); 34 sps of mammals are recorded (Source: Nepal Biodiversity Resource Book).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); Eupatorium sp (LN: Banmara; EN: Thoroughwort), <i>Parthenium hysterophorus</i> (LN: Gajar jhar; EN: Famine weed); <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Sukhad Bazaar; close to the lake; Main Trail: Mahendra highway-15m from lake.
Land use	Forestland (69%); Agriculture (22%); Wetlands (2%); Others (3%); Grassland (3%); Shrubland (1%).
Demography	Population: 616,697; Male:NA; Female:NA; HHs:504; Ethnicity: Brahmin/Chhetri (21.13%); Janajati (41.53%); Dalit (1.11%); Other (5%). Major Religion: Hinduism. (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community None. Livestock at basin >23500.
Traditional production system	Traditional farming including cashcrop & medicinal plant. Traditional water use practices Religious/ritual pond.

Cultural record  
Genesis/origin of lake

Sidda baba temple at basin.  
None.

**D. Ecosystem Goods/Services**

Provisional services  
Cultural services

Fodder; Medicinal plants.  
Aesthetic; Religious; Educational.

**E. Restoration/Management**

Structural management

Da m; Support from Ministry of Environment; NLDC and DDC. Non-structural management Formal restriction.

Conservation plan  
Monitoring plan

Available (by the East Foundation and DFO).  
None.

**F. Tourism information**

>35,000 visitors/yr; Few good hotels in lake site; Motarable road to sukkad Bazar; Good hotel and transportation services from sukkahad Bazar; Tourism potential high. Needs promotional activities.

**G. Lake condition**

Degrading.

## 18. Godchittiya Tal

Code: P7-D7-018  
Toposheet no: 2880 07B  
Date of inventory: June 03, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:28.72695528°N; Lon:80.77209463°E; Alt:178 masl. Geographical position Tarai.
Administrative feature	FWDR; Kailali district; Chaumala VDC.; Ward-1; Kurkuria. (Current: Gaurigangai Municipality; Ward no. 4)
Boundary	Core Area: Forest in east and south; Farmland and Kurkuria gaun in west and north. Basin Area: Forest in all directions.
Management responsibility	Kurkuriya lake Management Community.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp:40.50°C (Jun/July); Avg. Min:17.70°C (Dec); Rainfall:1577 mm/yr.
Area	Core Area:0.9ha; Avg. Length:150 m; Avg. Width:80 m; Avg. Depth:3 m; Max-Min Surface Water Level:4 m-2 m; Basin Area:48.1ha
Water Volume	Peak Period: 1,362,528 ltr; Dry period: 681,264 ltr; Inlet: None; Outlet: None.
Water quality	Physicochemical parameter: Temp.:24°C, pH:6; Transparency:0.3 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: None.
Major plants in basin	<i>Shorea robusta</i> (LN: sal; HT: Tr; LU: Ful); <i>Synzigium cumini</i> (LN: jamun; HT:TR; LU: Tm); <i>Adena cordifolia</i> (LN: Asna; HT: Tr; LU: Tm); <i>Acacia catechu</i> (LN: Khayar; HT: Tr; LU: Tm); <i>Dalbergia sisoo</i> (LN: Sisoo; HT: Hr; LU: Med).
Fish	None.
Herpetofauna	<i>Bufo melanostictus</i> (LN: Khasre bhyaguto; EN: Black-spined toad) <i>Hoplobatrachus crassus</i> (LN: Sirke Paha; EN: Jerdon's bull frog); <i>Amolops marmoratus</i> (LN: Tite Paha); <i>Python morulus</i> (LN: Ajingar; EN: Python); <i>Ptyas mucosa</i> (LN: Dhaman; EN: Ratsnake).
Birds	<i>Casmerodius albus</i> (EN: Great Egret); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Vanellus indicus</i> (LN: Huttititau; EN: Red- watteded lapwing); <i>Falco tinnunculus</i> (LN: Baaj; EN: Common Kestrel).
Mammals	<i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo;

Invasive alien species	EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: squirrel).
Endemic plant/animal	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); Eupatorium sp (LN: Banmara; EN: Thoroughwort).
<b>C. Socio-Economy at Basin</b>	None.
Nearby settlement	Kurkuriya Gaun; 100 m from lake; Main Trail: Chamala to Kurkuriya gaun road; 50 m from lake.
Land use	Forestland (96.39%); Agriculture (3%); Grassland (0.23%); Shrubland (0.37%).
Demography	Population:27586; Male: 12,729 Female: 14,857; HHs: 5,293; Ethnicity: Brahmin/Chhetri (50%); Janajati (30%); Dalit (18%); Other (2%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>2000.
Traditional production system	Rice field, Fishery.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fodder; Medicinal plants.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	No visitors; No tourism potential.
<b>G. Lake condition</b>	Degrading.

## 19. Gurduhawa Tal

Code: P7-D7-019

Toposheet no: 2787 - 16 B

Date of inventory: May 22, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.45427425°N; Lon:80.9543773°E; Alt:131 masl.  
Geographical position Terai.

Administrative feature

FWDR; Kailali district; Bhajani Municipality; Ward no. 2; Prithibipur.

Boundary

(Current: Bhajani Municipality; Ward no. 5)

Core Area: Grassland in the west, Forest in other directions.

Management responsibility

Chamraiya Lake Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50°C (Jun/July); Avg. Min:17.70°C (Dec)  
Rainfall:1577mm/yr.  
(www.beautifulfarwestnepal.blogspot.com).

Area

Core Area:2.8ha; Avg. Length:700 m; Avg. Width:150 m;  
Avg. Depth:4 m; Max-Min Surface Water Level:5 m-3 m;  
Basin Area:50.4 ha.

Water Volume

Peak Period: 14,902,650 ltr; Dry period:8, 941, 590 ltr;  
Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp:25°C, pH:6;  
Transparency:0.5 m.

Soil feature

Dark color; Clay loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area:Azolla sps (LN:Panijhyau; HT:Ff; LU; None);  
Potamogeton nodosus (LN:Panikhar; HT:E m; LU; None);  
Ludwigia adscendes (LN:Jadelo; HT:E m; LU:None);  
Utricularia australia (LN:Simghas; HT:S m; LU; None);  
Oryza rufipogon (LN:Jungalidhan; HT:E m; LU:None);  
Phragmites sps (LN:Narkat; HT; Sr; LU:Fod); Ceratophyllum  
demersum (LN:Patai; HT:S m; LU:None); Hydrilla sps  
(LN:Panijhyau; HT:Ff; LU:None); Typha angustifoli  
(LN:Pater; EN:Broadleaf cattletail); *Sphagnum nepalensis*  
(LN:Jhyau; HT:E m; LU:none).

Major plants in basin

*Acacia catechu* (LN:Khayar; HT:Tr; LU:Tm, Med); *Dalbergia*  
*sisoo*(LN:Sisoo; HT:Tr; LU:Tm); *Shorea robusta* (LN:Sal;  
HT:Tr; LU:Fur, fuel); *Synzigium cumini* (LN:Jamun; HT:Tr;  
LU:Tm, Fr); *Adena cordifolia* (LN:Haldo; HT:Tr; LU:Tm);  
*Emblica officinalis* (LN:Amala; HT:Tr, LU:Med, Fruit);  
*Oroxylum indicum* (LN:Tatelo; HT:Tr; LU:Med); *Bombax*

	ceiba (LN:Simal; HT:Tr; LU:Med); <i>Butea monospermea</i> (LN:Palash; HT:Tr; LU:Tm, Rel); <i>Terminalia chebula</i> (LN:Harro; HT:Tr; LU:Med); <i>Terminalia bellirica</i> (LN:Barro; HT:Tr; LU:Med); <i>Terminalia elliptica</i> (LN:Saanj; HT:Tr; LU:Tm, Fuel); <i>Trewia nudiflora</i> (LN:Ghuthel; HT:Tr; LU:Fod).
Fish	<i>Puntius</i> sps (LN: Sedari; LU: Meat); <i>Cetanolaryngodon idella</i> (LN: Carp; LU: Meat); <i>Hypophthalmichthys nobilis</i> (LN: Carp; LU: Meat); <i>Labeo rohita</i> (LN: Rohu; LU: Meat)
Herpetofauna	<i>Euphlyctis cyanophlyctis</i> (LN:Tiktike Paha; EN:Skittling Frog); <i>Buttaphrynus melanostictus</i> (LN:Kalokhasre Bhyaguto; EN:Blackspined Toad); <i>Calotes versicolor</i> (LN:Cheparo; EN:Garden lizard); <i>Varanus bengalensis</i> (LN:Gohoro; EN:Monitor Lizard); <i>Bungarus</i> sps (LN:Karet; EN:Common Krait); <i>Bufo melanostictus</i> Schneider(LN:Khasre bhyaguto; EN:Black-spined toad); <i>Python morulus</i> (LN:Ajingar; EN:Python); <i>Naja naja</i> (LN:Cobra; EN:Common Cobra); <i>Crocodylus palustris</i> (LN:Muggar; EN:Mugar crocodile); <i>Indotestudo elongate</i> (LN:Kachhuwa; EN:Yellow/headed Tortoise).
Birds	<i>Eudynamis scolopacea</i> (LN:Koili; EN:Asian Koel); <i>Psittacula</i> sps (LN:Suga; EN:Parrot); <i>Eupupa epops</i> (LN:Fapre; EN:Hoopoe); <i>Francolinus francolinus</i> (LN:Kalotitra; EN:Black Francolin); <i>Gallus gallus</i> (LN:Bankukhura; EN:Red Jungle fowl); <i>Passer domesticus</i> (LN:Bhagero; EN:Sparrow); <i>Corvus splendens</i> (LN:Kaag; EN:House Crow); <i>Streptopelia chinensis</i> (LN:Dhukur; EN:Spotted Dove); <i>Dicrurus macrocercus</i> (LN:Chibe; EN:Drongo); <i>Ocyrceros birostris</i> (LN:Dhanes; EN:Grey Hornbill); <i>Coracias bengalensis</i> (LN:Theuwa; EN:Indian Roller); <i>Halcyon smyrnensis</i> (LN:Matikore; EN:Kingfisher); <i>Leophronpercnopterus</i> (LN:Seto giddha; EN:Egyptian vulture); <i>Casmerodius albus</i> (EN:Great Egret); <i>Halcyon pileata</i> (LN:Fisto; EN:Yellow-cheeked Tit); <i>Vanellus indicus</i> (LN:huttityau; EN:Red-watteled lapwing); <i>Falco tinnunculus</i> (LN:Baaj; EN:Common Kestrel); <i>Treron pompadora</i> (LN:Dhukur EN:Pompadour Green Pigeon); <i>Turdoides striata</i> (LN:Bhyakur; EN:Jungle Babbler).
Mammals	<i>Herpestes</i> sps (LN: Nyarimusa; EN: Mongoose); <i>Canis aureus</i> (LN: Syal; EN: Golden jackal); <i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biral; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: Squirrel); <i>Felis viverrina</i> (LN: Malaha biral; EN: Fishing cat); <i>Sus scrofa</i> . (LN: Badel; EN: Eurasian wild Boar); <i>Axis axis</i> (LN: Chittal; EN: spotted deer); <i>Muntiac muntjac</i> (LN: Ratuwa; EN: Barking deer); <i>Sus scrofa</i> (LN: Badel; EN: Wild Boar);
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium</i> sps (LN: Banmara; EN: Thoroughwort), <i>Parthenium hysterophorus</i> (LN: Gajar jhar; EN: Famine weed); <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Prithivipur; 1km from lake; Main Trail: Bhajani to Lalboji trail; 1km from lake.
Land use	Forestland (63%); Grassland (4%); Wetland (1); Others (32%).
Demography	Population:11247; Male:5643; Female:5604; HHs:1818; Ethnicity: Brahmin/Chhetri (23.09%); Janajati (50.3%); Dalit (16.24%); Other (10.37%). Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community None.
Livestock at basin	>1000.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fodder; Medicinal plants; Timber.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	Dam by local community.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	Very few visitors; No tourism potential.
<b>G. Lake condition</b>	Degrading.



## 20. Guldrahawa Tal

Code: P7-D7-020

Toposheet no: 2880 08C and 12A

Date of inventory: July 9, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.53003°N; Lon:80.80003°E; Alt:135 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailali district; Pawera VDC.; Ward no.3; Chhoti Paliya.

Boundary

(Current: Kailari Rural Municipality; Ward no. 5)

Core Area: Chhoti Paliya to Mohanpur road in north; Farmland in other directions

Basin Area: Sunhara Tal in west; Mohana nadi in south; Mohanpur gaon in east and Chhotki paliya to Ratanpur road in north.

Management responsibility

Sunhara Lower Secondary School, Chhoti Paliya.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.5°C (Jun/July); Avg. Min:17.7°C (Dec);  
Rainfall:1577mm/yr.

([www.beautifulfarwestnepal.blogspot.com](http://www.beautifulfarwestnepal.blogspot.com)).

Area

Core Area:4.1 ha; Avg. Length:80 m; Avg. Width:50 m;  
Avg. Depth:1.5 m; Max-Min Surface Water Level:2-1 m;  
Basin Area:60 ha.

Water Volume

Peak Period: 10,000,000 ltr; Dry period: 750,000 ltr; Inlet:  
None; Outlet: None.

Water quality

Physiochemical parameter: Temp.:36.2°C, pH:8.9;  
DO:5.1mg/l; Transparency: 0.3m.

Soil feature

Grey color; Sandy loam.

Shocks/vulnerability

Water Volume decrease.

Major aquatic plants

Core Area: None.

Major basin plants

Bombox ceiba (LN: Simal; HT: Tr; LU: Tm); Syzygium cumini (LN: jamun; HT:TR; LU: Tm, Md); *Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); Zizyphus rugosa (LN: Rukh Bayar; HT: Tr; LU: Med); Eucalyptus alba (LN: Masala; HT: Tr; LU: Tm); Trewia nudiflora (LN: Vellor; HT: Tr; LU: Fd); schleicheraoleosa (LN: Kusu m; HT: Tr; LU: Fd); Calotropis gigantea (LN: Ankh; HT: Tr; LU: Med).

Fish

*Cetanolaryngodon idella* (LN: Grass Carp; LU: Meat); Hypophthalmichthys nobilis (EN: Bighead Carp; LU: Meat); Hypophthalmichthys molitrix (LN: Silver Carp; LU: Meat); Labeo rohita (LN: Rohu; LU: Meat), Cirrhinus mrigala (LN: Naini; LU: Meat), Catla catla (LN: Vyakur; LU: Meat); Clarias

Herpetofauna	<p>batrachus (LN: Mangur; LU: Meat); Puntios sarona (LN: Kande; LU: Meat); Puntios ticto (LN: Bhte; LU: Meat).</p> <p><i>Bufo melanostictus</i> (LN:Khashre Bhyaguto; EN:Black-spined Toad);<i>Kaloula taprobanica</i> (LN:Byaguyo; EN:Srilanka Bullfrog); <i>Euphlyctis cyanophlyctis</i> (LN:Tik-tike Paha; EN:Skittring Frog); <i>Hoplobatrachus crassus</i> (LN:Sirke Paha; EN:Jerdon’s Bullfrog); <i>Xenochrophis piscator</i> (LN:Pani Sarpa; EN:Chequered Keelback Watersnake); <i>Varanus flavescens</i> (LN:Sun Gohoro; EN:Golden Monitor Lizard); <i>Indotestudo elongata</i> (LN:Kachhuwa; EN:Yellow-headed Tortoise); <i>Asynblepharus sikimensis</i> (LN:Chikni Girgit; EN:Sikkem Skink).</p>
Birds	<p><i>Phalacrocorax niger</i> (LN: Sano Jalewa; EN: Little Cormorent); <i>Bulbulcus ibis</i> (LN: Bastu Bakulla; EN: Cattle Egret); <i>Halcyon capensis</i> (LN: Thulo Matikore; EN: Strok-billed Kingfisher); <i>Halcyon smyrnensis</i> (LN: Setokanthe Matikore; EN: White-throated Kingfisher); <i>Metopidius indicus</i> (LN: Lama Aunle; EN: Bronze-winged Jacana); <i>Ichthyophaga ichthyaetus</i> (LN; Machhakul; EN: Grey-headed Fisheagle); <i>Coracias beglalensis</i> (LN: Theuwa; EN: Indian Roller).</p>
Mammals	<p><i>Lupus nigracollis</i> (LN: Ban Kharayo; EN: Indian Hare); <i>Funambulus pennant</i> (LN: Panch Darke Lokharke; EN: Northern Palm Squirrel); <i>Hystrix indica</i> (LN: Jure Dumsi; EN: Indian Crested Porcopine); <i>Millardia meltada</i> (LN: Makhamali Muso; EN:Common Soft-furred Rat); <i>Bandicota indica</i> (LN:Thulo Dhande Muso; EN:Greater Bandicot-rat); <i>Felis chaus</i> (LN:Ban Biral; EN:Jungle Cat); <i>Canis aureus</i> (LN:Shyal; EN; Golden Jackle); <i>Sus scrofa</i> (LN:Bandel; EN:Wild Boar); <i>Axis axis</i> (LN: Chital; EN:Spotted Deer).</p>
Invasive alien species	<p><i>Ipomoea carnea</i> (LN: Besara m; EN: Shrubby Morning Glory); <i>Parthenum hysterophorus</i> (LN: Kanike Ghans; EN: Bitter Weed); <i>Ageratum conyzoides</i> (LN: Ghande; EN: Billy Goat Weed).</p>
Endemic plant/animal	None.

**C. Socio-Economy at Basin**

Nearby settlement	Chhoti Paliya; 20m from lake; Main Trail: Dhangadi-Rampur road; 1km (Pabera Bazar to Chhoti Paliya road; 20m) from lake.
Land use	Forestland (20%); Grassland (5%); Farmland (40%); Settlement (30%); Other (5%).
Demography	Population: 5,835; Male: 2,813; Female: 3,022; HHs:980; Ethnicity: Brahmin/Chhetri (8.45%); Janajati (90.45%); Dalit (0.55%); Other (0.55%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	Tharu.
Livestock at basin	>500.
Traditional production system	Fish farming.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

**D. Ecosystem Goods/Services**

Provisional services	None.
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Cultural services

None.

**E. Restoration/Management**

Structural management

None.

Non-structural management

None.

Conservation plan

None.

Monitoring plan

None.

**F. Tourism information**

No visitors; Good hotels in Pabera Bazar; Motarable road to Chhoti Paliya; Transportation services to Pabera Bazar but private vehicles refer to the Lake from lake; Needs promotional activities.

**G. Lake condition**

Degrading.

## 21. Jakhor Tal

Code: P7-D7-021

Toposheet no: 2880 07B

Date of inventory: June 03, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.70641481°N; Lon:80.62225477°E; Alt:165 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailali district; Dhangadi Sub-metropolitancity.;  
Ward no. 7; Dhangadi.

Boundary

(Current: Dhangadhi Municipality; Ward no. 7)

Core Area: School in east; forest in other directions.

Basin Area: Chamraiya forest in the west; Dadakharka-  
Maipokhari- Jaspire road in east; Bhitte-Talagau trail in  
south; Deurali-Talagau trail in north.

Management responsibility

Dudhiya Lake Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp: 40.50°C (Jun/July); Avg. Min: 17.70°C  
(Dec); Rainfall:1577 mm/yr.

Area

Core Area:13.4ha; Avg. Length:300 m; Avg. Width:150 m;  
Avg. Depth:4 m; Max-Min Surface Water Level:6 m-2 m;  
Basin Area: 314.1 ha.

Water Volume

Peak Period: 7,664,220 ltr; Dry period: 2,554,740 ltr; Inlet:  
None; Outlet: None.

Water quality

Physicochemical parameter: Temp.: 25°C, pH: 6;  
Transparency: 0.3 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Ludwigia adscendes* (LN: Jadelo; HT: E  
m; LU: None); *Utricularia australia* (LN: Simghas; HT: S m;  
LU: None); *Oryza rufipogon* (LN: Jungalidhan; HT: E m; LU:  
None); *Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU:  
none).

Major plants in basin

*Shorea robusta* (LN: sal; HT: Tr; LU: Ful); *Synzigium cumini*  
(LN: jamun; HT:TR; LU: Tm); *Adena cordifolia* (LN: Asna;  
HT: Tr; LU: Tm); *Acacia catechu* (LN: Khayar; HT: Tr; LU:  
Tm, Fr); *Dalbergia sisoo* (LN: Sisoo; HT: Hr; LU: Med).

Fish

*Puntius sps* (LN: Sedari; LU: Meat); *Cetanolaryngodon*  
*idella* (LN: Carp; LU: Meat); *Ctenopharyngodon idella* (LN:  
Carp; LU: Meat)

Herpetofauna

*Bungarus sps* (LN: Karet; EN: Common Krait); *Ptyas mucosa*  
(LN: Dhaman; EN: Ratsnake); *Bufo melanostictus* Schneider  
(LN: Khasre bhyaguto; EN: Black-spined toad);  
*Hoplobatrachus crassus* (LN: Sirke Paha; EN: Jerdon's bull

Birds	frog); <i>Varanus bengalensis</i> (LN: Bhainse; EN: Monitor lizard); <i>Polypedtes maculates</i> (LN: Rukh Bhyaguto). Streptopelia Chinensis (LN: Dhukur; EN: Spotted Dove); Dicrurus macrocercus (LN: Chibe; EN: Drongo); Ocyrceros birostris (LN: Dhanes; EN: Grey Hornbill); Coracias bengalensis (LN: Theuwa; EN: Indian Roller); Halcyon smyrnensis (LN: Matikore; EN: Kingfisher); <i>Casmerodius albus</i> (EN: Great Egret); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); Vanellus indicus (LN: huttititau; EN: Red-watteled lapwing); Falco tinnunculus (LN: Baaj; EN: Common Kestrel).
Mammals	Felis bengalensis (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); Funambulus pennant (LN: Lokharke; EN: Squirrel); <i>Felis viverrina</i> (LN: Malaha biralo; EN: Fishing cat); <i>Sus scrofa</i> . (LN: Badel; EN: Wild Boar).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); Eupatorium sp (LN: Banmara; EN: Thoroughwort); <i>Parthenium hysterophorus</i> (LN Gajar jhar; EN: Famine weed); <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Dudhiya; 100 m from lake; Main Trail: Hasuliya to Dudhiya gaun road;100 m from lake.
Land use	Forestland (95%); Grassland (4%); Agriculture (1).
Demography	Population: 9,304; Male: 4,474; Female: 4,830; HHs: 1,492; Ethnicity: Brahmin/Chhetri (22.97%); Janajati (70%); Dalit (6.35%); Other (0.4%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	Dhangadi bazar.
Livestock at basin	>500.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fish supply.
Cultural services	None.

### E. Restoration/Management

Structural management	Dam, by local community.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** Local visitors; Needs promotional activities and awareness.

**G. Lake condition** Degrading.

## 22. Joginiya Lake

Code: P7-D7-022

Toposheet no: 2880 07B

Date of inventory: June 03, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.71136579°N; Lon:80.74729047°E; Alt:163 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailali district; Chaumala VDC.; Ward no. 9;  
Joginiya.

Boundary

(Current: Gaurdganga Municipality; Ward no. 1)

Core Area: Forest in all directions.

Basin Area: Forest in all direction.

Management responsibility

Puraina Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50°C (Jun/July); Avg. Min:17.70°C (Dec); Rainfall: 1577 mm/yr.

Area

Core Area: 8.8ha; Avg. Length:300 m; Avg. Width:140 m;  
Avg. Depth:3.5 m; Max-Min Surface Water Level:4 m-3 m;  
Basin Area:63.8 ha.

Water Volume

Peak Period: 4,768,848 ltr; Dry period: 3,576,636 ltr; Inlet:  
None; Outlet: None.

Water quality

Physicochemical parameter: Temp.:25oC, pH: 6;  
Transparency: 0.4 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: Some species of algae observed.

Major plants in basin

*Shorea robusta* (LN: Sal; HT: Tr; LU: Fur, fuel); *Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Emblica officinalis* (LN: Amala; HT: Tr, LU: Med, Fruit); *Oroxylum indicum* (LN: Tatelo; HT: Tr; LU: Med); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Med).

Fish

*Cetanolaryngodon idella* (LN: Carp; LU: Meat); *Labeo rohita* (EN: Rohu; LU: Meat); *Hypophthalmichthys nobilis* (LN: Carp; LU: Meat).

Herpetofauna

*Bungarus* sps (LN: Karet; EN: Common Krait); *Bufo melanostictus* Schneider (LN: Khasre bhyaguto; EN: Black-spined toad); *Python morulus* (LN: Ajingar; EN: Python).

Birds

*Eudynamis scolopacea* (LN: Koili; EN: Asian Koel); *Psittacula* sps (LN: Suga; EN: Parrot); *Eupupa epops* (LN: Fapre; EN: Hoopoe); *Francolinus francolinus* (LN: Kalotitra; EN: Black Francolin); (LN: Dhanes; EN: Grey Hornbill);

Mammals	Coracias bengalensis (LN: Theuwa; EN: Indian Roller); Halcyon smyrnensis (LN: Matikore; EN: Kingfisher).
Invasive alien species	Herpestes sps (LN: Nyarimusa; EN: Mongoose); Canis aurens (LN: Syal; EN: Golden jackal). <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory); Ageratinagande; EN: Cheek weed); Casia tora (LN: Kose; EN: Sickle pod).
Endemic plant/animal	None
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Chaumala Gaun; 200 m from lake; Main Trail: Chaumala to Goderiya Gaun road; 50 m from lake.
Land use	Forestland (93%); Wetland (3%).
Demography	Population: 27,586; Male: 12,729; Female: 14,857; HHs: 5,293; Ethnicity: Brahmin/Chhetri (50%); Janajati (30%); Dalit (18%); Other (2%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>700.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fodder; Medicinal plants; Drinking water for cattle.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
No visitors; No hotels at lake site; No tourism potential.	
<b>G. Lake condition</b>	
Degrading.	

Mammals	Coracias bengalensis (LN: Theuwa; EN: Indian Roller); Halcyon smyrnensis (LN: Matikore; EN: Kingfisher).
Invasive alien species	Herpestes sps (LN: Nyarimusa; EN: Mongoose); Canis aurens (LN: Syal; EN: Golden jackal). <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory); Ageratinagande; (LN: Cheek weed); Casia tora (LN: Kose; EN: Sickle pod).
Endemic plant/animal	None
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Chaumala Gaun; 200 m from lake; Main Trail: Chaumala to Goderiya Gaun road; 50 m from lake.
Land use	Forestland (93%); Wetland (3%).
Demography	Population: 27,586; Male: 12,729; Female: 14,857; HHs: 5,293; Ethnicity: Brahmin/Chhetri (50%); Janajati (30%); Dalit (18%); Other (2%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>700.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fodder; Medicinal plants; Drinking water for cattle.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
No visitors; No hotels at lake site; No tourism potential.	
<b>G. Lake condition</b>	
Degrading.	



Birds	<i>Casmerodius albus</i> (LN: Bakulla; EN: Great Egret); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Vanellus indicus</i> (LN: huttityau; EN: Red-watteled lapwing); <i>Falco tinnunculus</i> (LN: Baaj; EN: Common Kestrel); <i>Treron pompadora</i> (LN: Dhukur EN: Pompadour Green Pigeon).
Mammals	<i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Northen palm squirrel; EN: Northen); <i>Felis viverrina</i> (LN: Malaha biralo; EN: Fishing cat); <i>Vulpes bengalensis</i> (LN: Fushre fauro; EN: Bengal Fox) <i>Semnopithecus hector</i> (LN: Dedu; EN: Terai grey langur).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium</i> sp (LN: Banmara; EN: Thoroughwort); <i>Parthenium hysterophorus</i> (LN: Gajar jhar; EN: famine weed); <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Hasuliya Gaun; 400 m from lake; Main Trail: Mahendra highway to Hasuliya road; 50 m from lake.
Land use	Forestland (89.70%); Agriculture (6.05%); Barrenland (0.89); Grassland (0.02); Shrubland (0.02).
Demography	Population: 14,129; Male: 6,872; Female: 7,257; HHs: 2,385; Ethnicity: Brahmin/Chhetri (49.64%); Janajati (31.66%); Dalit (18.35%); Other (0.35%). Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community Hasuliya gaun. Livestock at basin >1000.
Traditional production system	Fishery.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fodder; Medicinal plants.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	No visitors; No tourism potential.
<b>G. Lake condition</b>	Degrading.

## 24. Kohilai Lake

Code: P7-D7-024

Toposheet no: 2880 08A

Date of inventory: Jun 2, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.69041504°N; Lon:80.77163689°E; Alt:162 masl.  
Geographical position Terai Range.

Administrative feature

FWDR; Kailali district; Hasuliya Municipality; Ward-8;  
Sitalpur.

Boundary

(Current: Kailari Rural Municipality; Ward no. 9)

Basin Area: Forest in all directions

Core Area: Forest in all directions; village in south.

Management responsibility

Ghadariya Conservation Committee with the representation  
of DDC. Wetlands type Fresh water/natural; Lacustrine;  
Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp: 40.5°C (Jun/July); Avg. Min: 17.7°C (Dec);  
Rainfall:1577mm/yr.  
([www.beautifulfarwestnepal.blogspot.com](http://www.beautifulfarwestnepal.blogspot.com)).

Area

Core Area:60.4 ha; Avg. Length:900 m; Avg. Width:300 m;  
Avg. Depth:5 m; Max-Min Surface Water Level:2 m-6 m;  
Basin Area:350.2 ha.

Water Volume

NA.

Water quality

Physicochemical parameter: Temp.:24oC, pH:5.9; Electric  
conductivity: N.A. Transparency:0.5 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Nymphae* sps (LN: Kamal; HT: Ft; LU: Orn);  
*Utricularia australis* (LN: Simghas; HT: S m; LU: None);  
*Oryza rufipogon* (LN: Jungalidhan; HT: E m; LU: None);  
*Phragmites* sps (LN: Narkat; HT: Sr; LU: Fod);  
*Ceratophyllum demersum* (LN: Patai; HT: S m; LU: None);  
*Hydrilla* sps (LN: Panijhyau; HT: Ff; LU: None).

Major plants in basin

*Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm, Med);  
*Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Shorea robusta*  
(LN: Sal; HT: Tr; LU: Fur, fuel); *Synzgium cumini* (LN:  
Jamun; HT: Tr; LU: Tm, Fr); *Adena cordifolia* (LN: Haldo;  
HT: Tr; LU: Tm); *Embllica officinalis* (LN: Amala; HT: Tr, LU:  
Med, Fruit); *Oroxylum indicum* (LN: Tatelo; HT: Tr; LU:  
Med); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Med).

Fish

*Puntius* sps (LN: Sedari; LU: Meat); *Cetanolaryngodon*  
*idella* (LN: Carp; LU: Meat); *Hypophthalmichthys nobilis*  
(LN: Carp; LU: Meat); *Labeo rohita* (EN: Rohu; LU: Meat)

Herpetofauna	Euphlyctis cyanophlyctis (LN: Tiktike Paha; EN: Skittring Frog); Buttaphrynus melanostictus (LN: Kalokhasre Bhyaguto; EN: Blackspined Toad); <i>Calotes versicolor</i> (LN: Cheparo; EN: Garden lizard); <i>Varanus bengalensis</i> (LN: Gohoro; EN: Monitor Lizard); Bungarus sps (LN: Karet; EN: Common Krait); Naja naja (LN: Cobra; EN: Common Cobra).
Birds	Ardenola greyii (LN: Sim Bakulla; EN: Pond Heron); Ardea alba (LN: Bakulla; EN: Great Egret); Eudynamis scolopacea (LN: Koili; EN: Asian Koel); Psittacula sps (LN: Suga; EN: Parrot); Eupupa epops (LN: Fapre; EN: Hoopoe); Francolinus francolinus (LN: Kalotitra; EN: Black Francolin); Gallusgallus (LN: Bankukhura; EN: Red Jungle fowl).
Mammals	Herpestes sps (LN: Nyarimusa; EN: Mongoose); Canis aureus (LN: Syal; EN: Golden jackal); Felis bengalensis (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biral; EN: Jungle Cat)
Invasive alien species	<i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed); Xanthium strumarium (LN: Bhede kuro; EN: Cockle bur sheep bar); Ageratum conyzoides (LN: Nilo gande; EN: Cheek weed); Casia tora (LN: Kose; EN: Sickie pod).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Sitalpur Gaun; 50m from lake; Main Trail: Mahendra Highway- Masuriya–Gadhariya Gaun; 50 m from lake.
Land use	Forestland (94%); Agriculture (4%); Grassland (1%); Wetlands (1%).
Demography	Population: 14,129; Male: 6,872; Female: 7,257; HHs: 2,385; Ethnicity: Brahmin/Chhetri (49.64%); Janajati (31.66%); Dalit (18.35%); Other (0.35%). Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	Sitalpur Gaun.
Livestock at basin	>2500.
Traditional production system	None
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	Aesthetic; Religious; Educational.

### E. Restoration/Management

Structural management	Da m; Support from Ministry of Environment; NLCDC and DDC. Non-structural management Formal restriction.
Conservation plan	Available (by the East Foundation and DFO).
Monitoring plan	None.

**F. Tourism information**

>1,000 visitors/yr; Transportable road to Sitalpur; Local teashops at lake site. Moderate tourism potential; Needs promotional activities.

**G. Lake condition**

Degrading.

## 25. Korkotala Tal

Code: P7-D7-025

Toposheet no: 2880 07B

Date of inventory: June 03, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.55262559°N; Lon:80.95183765°E; Alt:157 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Khailali district; Khailad VDC.; Ward no. 10; Khailad.  
(Current: Bhajani Municipality; Ward no. 4)

Boundary

Core Area: Kirtipur Gaun in the west, Forest in the east and north; Bijuliya Gaun in the South.

Basin Area: Forests in all direction.

Management responsibility

Chamraiya Lake Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50°C (Jun/July); Avg. Min:17.70°C (Dec); Rainfall: 1577 mm/yr.

Area

Core Area:20.3ha; Avg. Length:800 m; Avg. Width:300 m; Avg. Depth:2.5 m; Max-Min Surface Water Level:3 m-2 m; Basin Area: 287.1 ha.

Water Volume

Peak Period: 20,437,920 ltr; Dry period: 13,625,280 ltr; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp.:25°C, pH:6; Transparency:0.3 m.

Soil feature

Dark color; Clay loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Ludwigia adscendes* (LN: Jadelo; HT: E m; LU: None); *Utricularia australia* (LN: Simghas; HT: S m; LU: None); *Oryza rufipogon* (LN: Jungalidhan; HT: E m; LU: None); *Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: none).

Major plants in basin

*Shorea robusta* (LN: sal; HT: Tr; LU: Ful); *Synzigium cumini* (LN: jamun; HT:TR; LU: Tm); *Adena cordifolia* (LN: Asna; HT: Tr; LU: Tm); *Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm, Fr); *Dalbergia sisoo* (LN: Sisoo; HT: Hr; LU: Med).

Fish

*Puntius sps* (LN: Sedari; LU: Meat); *Cetanoharyngodon idella* (LN: Carp; LU: Meat); *Ctenopharyngodon idella* (LN: Carp; LU: Meat)

Herpetofauna

*Bungarus*sps (LN: Karet; EN: CommonKrait); *Ptyasmucosa* (LN: Dhaman; EN: Ratsnake); *Bufo melanostictus* Schneider (LN: Khasre bhyaguto; EN: Black-spined toad);

Birds	Hoplobatrachus crassus (LN: Sirke Paha; EN: Jerdon's bull frog); Amolops marmoratus (LN: Tite Paha); <i>Varanus bengalensis</i> (LN: Bhainse; EN: Monitor Lizard); <i>Polypedtes maculatus</i> (LN: Rukh Bhyaguto; EN: Tree Frog). Streptopelia Chinensis (LN: Dhukur; EN: Spotted Dove); Dicrurus macrocercus (LN: Chibe; EN: Drongo); Ocyrceros birostris (LN: Dhanes; EN: Grey Hornbill); Coracias bengalensis (LN: Theuwa; EN: Indian Roller); Halcyon smyrnensis (LN: Matikore; EN: Kingfisher); <i>Casmerodius albus</i> (EN: Great Egret); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); Vanellus indicus (LN: Huttititau; EN: Red- watted lapwing); Falco tinnunculus (LN: Baaj; EN: Common Kestrel).
Mammals	Felis bengalensis (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biral; EN: Jungle Cat); Funambulus pennant (LN: Lokharke; EN: Squirrel); <i>Felis viverrina</i> (LN: Malaha biral; EN: Fishing cat); <i>Sus scrofa</i> (LN: Badel; EN: Wild Boar).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); Eupatorium sp (LN: Banmara; EN: Thoroughwort); <i>Parthenium hysterophorus</i> (LN Gajar jhar; EN: Famine weed); <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory).
Endemic plant/animal	None.

**C. Socio-Economy at Basin**

Nearby settlement	Dammadi Tol; close to the lake; Main Trail: Mahendra highway- Masuriya-Dammadi Tol; close to the lake.
Land use	Forestland (99%); Agriculture (0.5%); Grassland (0.5%).
Demography	Population: 11,985; Male: 5,817; Female: 6,168; HHs:2043; Ethnicity: Brahmin/Chhetri (14%); Janajati (67%); Dalit (16%); Other (3%). Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	Fish farming, irrigation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

**D. Ecosystem Goods/Services**

Provisional services	Fodder; Medicinal plants.
Cultural services	None.

**E. Restoration/Management**

Structural management	Dam, by local community.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information**

No visitors; No hotels at the lake site; No tourism potential.

**G. Lake condition**

Degrading.

## 26. Lami Tal

Code: P7-D7-026

Toposheet no: 2880 07A

Date of inventory: June 03, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.8172164°N; Lon:80.55744966°E; Alt:188 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailali district; Attariya Municipality; Ward no. 9; Malakheti.

Boundary

(Current: Godawari Municipality; Ward no. 2)

Core Area: Attariya buspark in west; Forest in others directions.

Management responsibility

Basin Area: Forest in all directions.

Attariya lake Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50°C (Jun/July); Avg. Min:17.70°C (Dec);  
Rainfall:1577 mm/yr.  
(www.beautifulfarwestnepal.blogspot.com).

Area

Core Area:7.3ha; Avg. Length:200 m; Avg. Width:100 m;  
Avg. Depth:4 m; Max-Min Surface Water Level:5 m-3 m;  
Basin Area:209.5 ha.

Water Volume

Peak Period: 2,838,600 ltr; Dry period:4725,790 ltr; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp.:24°C, pH:6;  
Transparency:0.4 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Typha angustifolia* (LN: Pater; EN: Broadleaf cattletail); *Nymphaea stellata* (LN: Nilkamal; EN: Blue lotus; HT: Ff; LU: Orn); *Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: none).

Major aquatic plants

Core Area: *Utricularia australia* (LN: Simghas; HT: S m; LU: None); *Oryza rufipogon* (LN: Jungalidhan; HT: E m; LU: None); *Phragmites* sps (LN: Narkat; HT; Sr; LU: Fod); *Ceratophyllum demersum* (LN: Patai; HT: S m; LU: None); *Hydrilla* sps (LN: Panijhyau; HT: Ff; LU: None).

Major plants in basin

*Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Shorea robusta* (LN: Sal; HT: Tr; LU: Fur, fuel); *Synzigium cumini* (LN: Jamun; HT: Tr; LU: Tm, Fr); *Adena cordifolia* (LN: Haldo; HT: Tr; LU: Tm); *Embllica officinalis* (LN: Amala; HT: Tr, LU:

	Med, Fruit); <i>Oroxylum indicum</i> (LN: Tatelo; HT: Tr; LU: Med); <i>Bombax ceiba</i> (LN: Simal; HT: Tr; LU: Med);
Fish	<i>Cetanoloharyngodon idella</i> (LN: Carp; LU: Meat); <i>Labeo rohita</i> (EN: Rohu; LU: Meat) <i>Hypophthalmichthys nobilis</i> (LN: Carp; LU: Meat).
Herpetofauna	<i>Bungarus</i> sps (LN: Karet; EN: Common Krait); <i>Bufo melanostictus</i> Schneider (LN: Khasre bhyaguto; EN: Black-spined toad); <i>Python morulus</i> (LN: Ajingar; EN: Python).
Birds	<i>Passer domesticus</i> (LN: Bhagero; EN: Sparrow); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow); <i>Streptopelia Chinensis</i> (LN: Dhukur; EN: Spotted Dove); <i>Dicrurus macrocercus</i> (LN: Chibe; EN: Drongo); <i>Ocyrceros birostris</i> (LN: Dhanes; EN: Grey Hornbill); <i>Vanellus indicus</i> (LN: huttititau; EN: Red-watteled lapwing); <i>Falco tinnunculus</i> (LN: Baaj; EN: Common Kestrel); <i>Turdoides striata</i> (LN: Bhyakur; EN: Jungle Babbler).
Mammals	<i>Herpestes</i> sps (LN: Nyarimusa; EN: Mongoose); <i>Canis aureus</i> (LN: Syal; EN: Golden jackal); <i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennant</i> (LN: Lokharke; EN: Squirrel);
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium sps</i> (LN: Banmara; EN: Thoroughwort); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed); <i>Xanthium strumarium</i> (LN: Bhede kuro; EN: Cockle bur sheep bar).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Attariya Buspark; 100 m from lake; Main Trail: Attarya to Lami Tal trail; very close to the lake.
Land use	Forestland (73%); Agriculture (26%); Others (1%).
Demography	Population: 23,814; Male: 11,300; Female: 12,514; HHs: 4,803; Ethnicity: Brahmin/Chhetri (64.74%); Janajati (15%); Dalit (21.68%); Other (0.58%). Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community None.
Livestock at basin	>1000.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants, Timber.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.



**F. Tourism information**

Only local visitors; Good road and hotel facilities at lake site;  
Moderate tourism potential; Needs promotional activities.

**G. Lake condition**

Degrading.

## 27. Lauka Bhauka Tal

Code: P7-D7-027

Toposheet no: 2880 08BD

Date of inventory: June 03, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.58792962°N; Lon:80.944807°E; Alt:153 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailali district; Trishakti Bhajani Municipality; Ward-10 Bijuliya.

Boundary

(Current: Bhajani Municipality; Ward no. 4)

Core Area: Kirtipur Gaun in the west, Forest in the east and north; Bijuliya Gaun in the South.

Basin Area: Forest in all directions.

Management responsibility

Chamraiya Lake Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50°C (Jun/July); Avg. Min:17.70°C (Dec); Rainfall: 1577 mm/yr.

Area

Core Area:46.1ha; Avg. Length:800 m; Avg. Width:300 m; Avg. Depth:2.5 m; Max-Min Surface Water Level:3 m-2 m; Basin Area: 583.2 ha.

Water Volume

Peak Period: 20,437,920 ltr; Dry period: 13,625,280 ltr; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp:25°C, pH:6; Transparency:0.3 m.

Soil feature

Dark color; Clay loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: Ludwigia adscendes (LN: Jadelo; HT: E m; LU: None); Utricularia australia (LN: Simghas; HT: S m; LU: None); Oryzarufipogon (LN: Jungalidhan; HT: E m;)

Major plants in basin

*Acacia catechu* (LN:Khayar; HT:Tr; LU:Tm, Med); *Dalbergiasisoo* (LN:Sisoo; HT:Tr; LU:Tm); *Shorea robusta* (LN:Sal; HT:Tr; LU:Fur, fuel); *Synzigium cumini* (LN:Jamun; HT:Tr; LU:Tm, Fr); *Adena cordifolia* (LN:Haldo; HT:Tr; LU:Tm); *Emblica officinalis* (LN:Amala; HT:Tr; LU:Med, Fruit); *Bombax ceiba* (LN:Simal; HT:Tr; LU:Med); *Butea monospermea* (LN:Palash; HT:Tr; LU:Tm, Rel); *Terminalia chebula* (LN:Harro; LU:Med); *Terminalia bellirica* (LN:Barro; HT:Tr; LU:Med); *Terminalia elliptica* (LN:Saanj; HT:Tr; LU:Tm, Fuel)

Fish	Puntius sps (LN: Sedari; LU: Meat); <i>Cetanolaryngodon idella</i> (LN: Carp; LU: Meat); Hypophthalmichthys nobilis (LN: Carp; LU: Meat); Labeo rohita (LN: Rohu; LU: Meat)
Herpetofauna	Bungarus sps (LN: Karet; EN: Common Krait); <i>Bufo melanostictus</i> Schneider (LN: Khasre bhyaguto; EN: Black-spined toad); Python morulus (LN: Ajingar; EN: Python); Indotestudo elongate (LN: Kachhuwa; EN: Yellow/headed Tortoise).
Birds	Coracias bengalensis (LN: Theuwa; EN: Indian Roller); Halcyon smyrnensis (LN: Matikore; EN: Kingfisher); Leophronpercnopterus (LN: Seto giddha; EN: Egyptian vulture); <i>Casmerodius albus</i> (LN: Bastu Bakulla, EN: Great Egret); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); Vanellus indicus (LN: huttititau; EN: Red-wattled lapwing); Falco tinnunculus (LN: Baaj; EN: Common Kestrel); Gallusgallus (LN: Bankukhura; EN: Red Jungle fowl).
Mammals	Herpestes sps (LN: Nyarimusa; EN: Mongoose); Canis aureus (LN: Syal; EN: Golden jackal); Felis bengalensis (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Sus scrofa</i> . (LN: Badel; EN: Eurasian wild Boar); Axisaxis (LN: Chittal; EN: spotted deer); Muntiac muntjac (LN: Ratuwa; EN: Barking deer); <i>Sus scrofa</i> (LN: Badel; EN: Wild Boar).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium sps</i> (LN: <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed); Xanthium strumarium (LN: Bhede kuro; EN: Cockle bur sheep bar); Ageratum conyzoides (LN: Nilo gande; EN: Cheek weed); Casia tora (LN: Kose; EN: Sickle pod).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Bijuliya; 100 m from lake; Main Trail: Mahendra high to Chamala road; 100 m from lake.
Land use	Forestland (99%); Grassland (1%).
Demography	Population:14917; Male:7507; Female:7410; HHs:20507; Ethnicity: Brahmin/Chhetri (19.44%); Janajati (68.05%); Dalit (12.24); Other (0.27%). Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500
Traditional production system	Fish farming, irrigation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants; Picnic spot.
Cultural services	None.

### E. Restoration/Management

Structural management  
Non-structural management  
Conservation plan  
Monitoring plan

Dam, by local community.  
None.  
None.  
None.

**F. Tourism information**

>2000 visitors; local teashops in Bijuliya; Moderate Tourism Potential; Needs more infrastructural and promotional activities

**G. Lake condition**

Degrading.

## 28. Lukli Tal

Code: P7-D7-028

Toposheet no: 2880 08B

Date of inventory: June 03, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.56633955°N; Lon:80.91411718°E; Alt:151 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailali district; Trishakti-Bhajani Municipality; Ward-9; Sayapatri.

(Current: Bhajani Municipality; Ward no. 9)

Boundary

Core Area: Forest in all directions.

Basin Area: Forest in all directions.

Management responsibility

Sayapatri Lake Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50oC (Jun/July); Avg. Min:17.70oC (Dec);  
Rainfall:1577 mm/yr.  
(www.beautifulfarwestnepal.blogspot.com).

Area

Core Area:6.5 ha; Avg. Length:250 m; Avg. Width:130 m;  
Avg. Depth: 4.5 m; Max-Min Surface Water Level:5 m-4 m;  
Basin Area:623.6 ha. Water Volume Peak Period:  
4,612,725 ltr; Dry period: 3,690,180 ltr; Inlet: None;  
Outlet: None.

Water quality

Physicochemical parameter: Temp.: 25oC, pH: 6;  
Transparency: 0.4 m.

Soil feature

Dark color; Clay loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: Utricularia australia (LN: Simghas; HT: S m; LU: None);  
Oryza rufipogon (LN: Jungalidhan; HT: E m; LU: None);  
Phragmites sps (LN: Narkat; HT; Sr; LU: Fod);  
Ceratophyllum demersum (LN: Patai; HT: S m; LU: None);  
Hydrilla sps (LN: Panijhyau; HT: Ff; LU: None).

Major plants in basin

*Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Shorea robusta* (LN: Sal; HT: Tr; LU: Fur, fuel); *Synzigium cumini* (LN: Jamun; HT: Tr; LU: Tm, Fr); *Adena cordifolia* (LN: Haldo; HT: Tr; LU: Tm); *Embllica officinalis* (LN: Amala; HT: Tr, LU: Med, Fruit); *Oroxylum indicum* (LN: Tatelo; HT: Tr; LU: Med); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Med);

Fish

*Cetanolaryngodon idella* (LN: Carp; LU: Meat); *Labeo rohita* (LN: Rohu; LU: Meat); *Hypophthalmichthys nobilis* (LN: Carp; LU: Meat).

Herpetofauna	Bungarus sps (LN: Karet; EN: Common Krait); <i>Bufo melanostictus</i> Schneider (LN: Khasre bhyaguto; EN: Black-spined toad); <i>Python morulus</i> (LN: Ajingar; EN: Python).
Birds	<i>Francolinus francolinus</i> (LN:Kalotitra; EN:Black Francolin); <i>Gallusgallus</i> (LN:Bankukhura; EN:Red Jungle fowl); <i>Passer domesticus</i> (LN:Bhagero; EN:Sparrow); <i>Corvus splendens</i> (LN:Kaag; EN:House Crow); <i>Streptopelia Chinensis</i> (LN:Dhukur; EN:Spotted Dove); <i>Dicrurus macrocercus</i> (LN: Chibe; EN:Drongo); <i>Ocyeros birostris</i> (LN:Dhanes; EN:Grey Hornbill); <i>Vanellus indicus</i> (LN:Huttititau; EN:Red-watteled lapwing); <i>Falco tinnunculus</i> (LN:Baa; EN:Common Kestrel); <i>Turdoides striata</i> (LN:Bhyakur; EN:Jungle Babbler).
Mammals	<i>Herpestes sps</i> (LN: Nyarimusa; EN: Mongoose); <i>Canis aureus</i> (LN: Syal; EN: Golden jackal); <i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennant</i> (LN: Lokharke; EN: Squirrel).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium sps</i> (LN: Banmara; EN: Thoroughwort); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed); <i>Xanthium strumarium</i> (LN: Bhide kuro; EN: Cackle bur sheep bar).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Sayapatri Gaun; 100m from lake; Main Trail: Dongpur to Sayapatri trail; 200m from lake.
Land use	Forestland (73%); Agriculture (26%); Others (1%).
Demography	Population:14917; Male:7507; Female:7410; HHs:20507; Ethnicity: Brahmin/Chhetri (19.44%); Janajati (68.05%); Dalit (12.24); Other (0.27%). Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	Dongpur community
Livestock at basin	>1000.
Traditional production system	Rice field.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fodder; Medicinal plants; Timber.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
No visitors.	
<b>G. Lake condition</b>	
Degradation.	

## 29. Mahadeva Tal

Code: P7-D7-029

Toposheet no:2880 07B

Date of inventory: June 03, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.74393647°N; Lon:80.7096003°E; Alt:168 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailali district; Dhangadhi Municipality; Ward-16;  
Rampur.

Boundary

(Current: Dhangadi Municipality; Ward no. 16)

Core Area: Forest in West and north directions; Rampur  
Gaun in East; School in south.

Basin Area: Forest in all directions.

Management responsibility

Bheda Baba Lake Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50°C (Jun/July); Avg. Min:17.70°C  
(Dec); Rainfall: 1577 mm/yr.

Area

Core Area:21.3ha; Avg. Length:300 m; Avg. Width:190 m;  
Avg. Depth:3.5 m; Max-Min Surface Water Level:4 m-3 m;  
Basin Area:193.4 ha.

Water Volume

Peak Period: 6,472,008 ltr; Dry period: 4,854,006 ltr; Inlet:  
None; Outlet: None.

Water quality

Physicochemical parameter: Temp.:25°C, pH:6;  
Transparency:0.3 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: Nelumbo nucifera (LN: Kamal; HT: Ff; LU: Orn);  
Azolla sps (LN: Panijhyau; HT: Ff; LU: None); Potamogeton  
nodosus (LN: Panikhar; HT: E m; LU: None); Typha  
angustifolia (LN: Pater; EN: Broadleaf cattletail); *Nymphaea  
stellata* (LN: Nilkamal; EN: Blue lotus; HT: Ff; LU: Orn);  
*Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: none).

Major plants in basin

*Shorea robusta* (LN: sal; HT: Tr; LU: Ful); Synzigium cumini  
(LN: jamun; HT:TR; LU: Tm); Adena cordifolia (LN: Asna;  
HT: Tr; LU: Tm); *Acacia catechu* (LN: Khayar; HT: Tr; HT:  
Hr; LU: Med); Oroxylum indicum (LN: Tatelo; HT: Tr; LU:  
Med).

Fish

*Cetanoaryngodon idella* (LN: Carp; LU: Meat);  
Hypophthalmichthys nobilis (LN: Carp; LU: meat).

Herpetofauna

*Bufo melanostictus* Schneider (LN: Khasre bhyaguto; EN:  
Black-spined toad); *Polypedtes maculates* (LN: Rukh

Birds	Bhyaguto); Python morulus (LN: Ajingar; EN: Python); Ptyas mucosa (LN: Dhaman; EN: Ratsnake). <i>Casmerodius albus</i> (LN: Bakulla; EN: Great Egret); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Vanellus indicus</i> (LN: huttityau; EN: Red-watteled lapwing); <i>Falco tinnunculus</i> (LN: Baaj; EN: Common Kestrel); <i>Treron pompadora</i> (LN: Dhukur EN: Pompadour Green Pigeon).
Mammals	<i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: Northen palm squirrel); <i>Felis viverrina</i> (LN: Malaha biralo; EN: Fishing cat); <i>Vulpes bengalensis</i> (LN: Fushre fauro; EN: Bengal Fox) <i>Semnopithecus hector</i> (LN: Dedu; EN: Terai grey langur).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium</i> sp (LN: Banmara; EN: Thoroughwort); <i>Parthenium hysterophorus</i> (LN: Gajar jhar; EN: famine weed); <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Rampur; 50 m from lake; Main Trail: Chaumal bazar to Rampur road; 50 m from lake.
Land use	Forestland (88%); Shrubland (1%); Grassland (6%); Agriculture (4%); Wetlands (1%).
Demography	Population:10,1970; Male: 51,439; Female: 50,531; HHs: 21,030; Ethnicity: Brahmin/Chhetri (50%); Janajati (25%); Dalit (10%); Other (15%). Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>1000.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	Bhedbaba Temple
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

Only local visitors; Few teashops in Rampur village; No tourism potential.

### G. Lake condition

Degrading.



### 30. Mohana Oxbow Tal

Code: P7-D7-030

Toposheet no:2880 12B

Date of inventory: July 8, 2016



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.45198°N; Lon:80.97659°E; Alt:141 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailalidistrict; Trishakti-Bhajani Municipality; Ward no.3; Dudhawaphant.

Boundary

(Current: Bhajani Municipality; Ward no. 3)

Core Area: Paddy field in east and north; India in south and west.

Basin Area: Dudhawalake in east, Kalapatal trail in north; India in west and south.

Management responsibility

Trishakti-Bhajani Municipality.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50°C (Jun/July); Avg. Min:17.7°C (Dec);  
Rainfall:1577mm/yr.  
(www.beautifulfarwestnepal.blogspot.com).

Area

Core Area:30 ha; Avg. Length:900 m; Avg. Width:50 m; Avg. Depth:2 m; Max-Min Surface Water Level:3-1 m; Basin Area:150ha.

Water Volume

Peak Period: 189,000,000ltr; Dry period: 37,800,000ltr; Inlet: None; Outlet: None.

Water quality

Physiochemical parameter: Temp.:36.5°C, pH:8.4; DO:4.5mg/l; Transparency: 0.5m.

Soil feature

Greycolor; Sandy loam.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: None.

Major plants in basin

Shorearobusta (LN: sal; HT: Tr; LU: Tml); Syzygiumcumini (LN: jam; HT:TR; LU: Tm, Md); Phramitisvallatoria (LN: Narkat; HT: Grass, LU: Fd); Bomboxceiba (LN: Simal; HT: Tr; LU: Tm); Trewianudiflora (LN: Vellor; HT: Tr; LU: Fd).

Fish

Clariasbatrachus (LN: Mangur; LU: Meat); Labeorohita (LN: Rohu; LU: Meat), Cirrhinusmrigala (LN: Naini; LU: Meat), Catlacatla (LN: Vyakur; LU: Meat); Puntiossarona (LN: Kande; LU: Meat); Puntioctico (LN: Bhite; LU: Meat).

Herpetofauna

Euphlyctiscyanophlyctis (LN: Tik-tike Paha; EN: Skittring Frog); Hoplobatrachuscrassus (LN: Sirke Paha; EN: Jerdon's

	Bullfrog); <i>Xenochrophispiscator</i> (LN: PaniSarpa; EN: Chequered Keelback Watersnake); <i>Varanusflavescens</i> (LN: Sun Gohoro; EN: Golden Monitor Lizard); <i>Indotestudoelogata</i> (LN: Kachhuwa; EN: Yellow-headed Tortoise); <i>Najanaja</i> (LN: GomanSarpa; EN: Spectacled Cobra) <i>NajaKaouthia</i> (LN: Goman; EN: Monocled Cobra); <i>Bungaruscaeruleus</i> (LN: KaretSarpa; EN: Common Krait).
Birds	<i>Cerylerudis</i> (LN: Chhirebire Matikore; EN: Pied Kingfisher); <i>Phalacrocoraxniger</i> (LN: Sano Jalewa; EN: Little Cormorent); <i>Bulbulcus ibis</i> (LN: BastuBakulla; EN: Cattle Egret); <i>Halcyon capensis</i> (LN: ThuloMatikore; EN: Strok-billed Kingfisher); <i>Halcyon smyrnensis</i> (LN: SetokantheMatikore; EN: White-throated Kingfisher); <i>Ichthyophagaichthyaetus</i> (LN; Machhakul; EN: Grey-headed Fisheagle); <i>Coracias beglalensis</i> (LN: Theuwa; EN: Indian Roller); <i>Pavocristatus</i> (LN: Majur, EN: Indian Peafowl).
Mammals	<i>Funambulus pennant</i> (LN: PanchDarkeLokharke; EN: Northern Palm Squirrel); <i>Hystrixindica</i> (LN: Jure Dumsi; EN: Indian Crested Porcopine); <i>Millardiameltada</i> (LN: MakhamaliMuso; EN: Common Soft-furred Rat); <i>Bandicotaindica</i> (LN: ThuloDhandeMuso; EN: Greater Bandicot-rat); <i>Canisaureus</i> (LN: Shyal; EN: Golden Jackle); <i>Sus scrofa</i> (LN: Bandel; EN: Urasian Wild Boar); <i>Boselaphoustragocamelus</i> (LN: Nil Gai; EN: Blue Bull).
Invasive alien species	<i>Ipomoea carnia</i> (LN: Besara m; EN: Shrubby Morning Glory). Endemic plant/animal None.

### C. Socio-Economy at Basin

Nearby settlement	Dudhawaphant; 1000m from lake; Main Trail: Tikuniya-Bhajaniraod;
100m from lake.	
Land use	Forestland (10%); Grassland (5%); Farmland (60%); Settlement (10%);
Other (15%).	
Demography	Population: 11,247; Male: 5,643; Female: 5,604; HHs: 1,818; Ethnicity: Brahmin/Chhetri (23.09%); Janajati (46.90%); Dalit (12.12%); Other (17.89%).Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>1000.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	None.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.

Conservation plan  
Monitoring plan

None.  
None.

**F. Tourism information**

No visitors; Good hotels in BhajaniBazar; Motarable road to Bhajani; Transportation services to Bhajani Bazar; Needs promotional activities.

**G. Lake condition**

Degrading.

## 31. Nami Tal

Code: P7-D7-031

Toposheet no: 2880 07A

Date of inventory: July03, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:28.72905°N; Lon:80.62032°E; Alt:174 masl. Geographical position Tarai.
Administrative feature	FWDR; Kailali district; Dhangadi Sub-metropolitan; Ward no.6; Jaligaon. (Current: Dhangadi Municipality; Ward no. 6)
Boundary	Core Area: Trail in east and Forest in other directions. Basin Area: Campus mod to Bijuliya road in west, Nathuniya lake in north; Jaligaon trail in south and Kapani nala in east.
Management responsibility	Janajyoti Machha Palan Samuha.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp:40.5°C (Jun/July); Avg. Min:17.7°C (Dec); Rainfall:1577mm/yr. ( <a href="http://www.beautifulfarwestnepal.blogspot.com">www.beautifulfarwestnepal.blogspot.com</a> ).
Area	Core Area:3 ha; Avg. Length:100 m; Avg. Width:60 m; Avg. Depth:2 m; Max-Min Surface Water Level:3-1 m; Basin Area:250 ha.
Water Volume	Peak Period: 23,100,000 ltr; Dry period: 2,400,000 ltr; Inlet: None; Outlet: None.
Water quality	Physiochemical parameter: Temp.:32°C, pH:9; DO:5.8mg/l; Transparency: 0.4 m.
Soil feature	Grey color; Clay loam.
Shocks/vulnerability	Water Volume decrease.
Major aquatic plants	Core Area: None.
Major basin plants	<i>Shorea robusta</i> (LN: sal; HT: Tr; LU: Tml); <i>Syzygium cumini</i> (LN: jamun; HT:TR; LU: Tm, Md); <i>Dalbergia sisoo</i> (LN: Sisoo; HT: Tr; LU: Tm); <i>Trewia nudiflora</i> (LN: Vellor; HT: Tr; LU: Fd); <i>Saccharum spontanum</i> (LN: Kans; HT: Grass; LU: Fd); <i>Imperata cylindrica</i> (LN: Siru; HT: Grass; LU: Fd); <i>Desmostachya bipinnata</i> (LN: Kush; HT: Grass; LU: Fd).
Fish	<i>Cetanotharyngodon idella</i> (LN: Grass Carp; LU: Meat); <i>Labeo rohita</i> (LN: Rohu; LU: Meat), <i>Hypophthalmichthys nobilis</i> (EN: Bighead Carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver Carp; LU: Meat); <i>Cirrhinus mrigala</i> (LN: Naini; LU: Meat), <i>Catla catla</i> (LN: Vyakur; LU: Meat).

Herpetofauna	Bufo stomaticus (LN: Khatkhyarri Magoba; EN: Assam Toad); Kaloula taprobanica (LN: Byaguyo; EN: Srilanka Bullfrog); Euphlyctis cyanophlyctis (LN: Tik-tike Paha; EN: Skittring Frog); Hoplobatrachus crassus (LN: Sirke Paha; EN: Jerdon's Bullfrog); Pangashura tectum (LN: Kachhuwa; EN: Indian Roofed Turtle); Indotestudo elongate (LN: Kachhuwa; EN: Yellow-headed Tortoise) Xenochrophis piscator (LN: Pani Sarpa; EN: Chequered Keelback Watersnake); Amphiesma stolatum (LN: Harara; EN: Buff-stripped Keelback); Python molurus (LN: Ajinger; EN: Rock Python).
Birds	Phalacrocorax niger (LN: Sano Jalewa; EN: Little Cormorent); Amaurornis phoenicurus (LN: Sim Kukhura; EN: White-breasted Waterhen); Metopidius indicus (LN: Lama Aunle; EN: Bonze-winged Jacana); Bulbulcus ibis (LN: Bastu Bakulla; EN: Cattle Egret); Ceryle rudis (LN: Chhirbire Matikore; EN: Pied Kingfisher); Halcyon capensis (LN: Thulo Matikore; EN: Strok-billed Kingfisher); Halcyon smyrnensis (LN: Seto Kanthe Matikore; EN: White-throated Kingfisher); Ichthyophaga ichthyoetus (LN: Machhakul; EN: Grey-headed Fisheagle); Pavo cristatus (LN: Majur; EN: Indian Peafowl); Gallus gallus (LN: Luiche; EN: Red Jungle Fowl).
Mammals	Lepus nigricollis (LN: Ban Kharayo; EN: Indian Hare); Funambulus pennant (LN: Panch Darke Lokharke; EN: Northern Palm Squirrel); Millardia meltada (LN: Makhamali Muso; EN: Common Soft-furred Rat); Bandicota indica (LN: Thulo Dhande Muso; EN: Greater Bandicot-rat); Hystrix indica (LN: Jure Dumsi, EN: Indian Crested Porcupine) Felis bengalensis (LN: Chari Bagh; EN: Leopard Cat ); Panthera pardus (LN: Chituwa; EN: Common Leopard); Canis aureus (LN: Shyal; EN: Golden Jackle); <i>Macaca mulatta</i> (LN: Rato Bandar; EN: Rhesus Monkey); Axis axis (LN: Chital; EN: Spotted Deer); <i>Sus scrofa</i> (LN: Bandel; EN: Wild Boar).
Invasive alien species	Ipomoea carnia (LN: Besara m; EN: Shrubby Morning Glory); Ageratum conyzoides (LN: Gandhe; EN: Billy Goat Weed).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Jaligaon; 50m from lake; Main Trail: Dhangadi Campus Mod to Jaligaon; 50m from lake.
Land use	Forestland (60%); Grassland (10%); Agriculture (20%); Settlement (5%); Other (5%).
Demography	Population: 101,970; Male: 51,439; Female: 50,531; HHs: 21,030; Ethnicity: Brahmin/Chhetri (51.44%); Janajati (34.91%); Dalit (8.72%); Other (4.93%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	Tharu.
Livestock at basin	>1000.
Traditional production system	Fish farming and irrigation.
Traditional water use practices	None.
Cultural record	None.

Genesis/origin of lake None.

**D. Ecosystem Goods/Services**

Provisional services Fish, recreation and domestic water supply.

Cultural services None.

**E. Restoration/Management**

Structural management None.

Non-structural management None.

Conservation plan None.

Monitoring plan None.

**F. Tourism information**

>500 visitors/year; Good hotels in Dhangadi Bazar; Motarable road to Kaligaon; Transportation services to Campus Mod but private vehicles refer to the Kaligaon; Needs promotional activities.

**G. Lake condition**

Degrading.

## 32. Nakror Lake

Code: P7-D7-032

Toposheet no: 2880 08B

Date of inventory: Jun 2, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:28.70889385°N; Lon:80.95940599°E; Alt:176 masl. Geographical position Terai Range.
Administrative feature	FWDR; Kailali district; Ghodaghodi Municipality; Ward no. 9; Sadepani. (Current: Ghodaghodi Municipality; Ward no. 8)
Boundary	Core Area: Forest in all directions.
Basin Area: Forest in all directions.	
Management responsibility	Ghodaghodi Conservation Committee with the representation of DDC.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp:40.5°C (Jun/July); Avg. Min:17.7°C (Dec); Rainfall:1577mm/yr. ( <a href="http://www.beautifulfarwestnepal.blogspot.com">www.beautifulfarwestnepal.blogspot.com</a> ).
Area	Core Area:26.6 ha; Avg. Length:700 m; Avg. Width:200 m; Avg. Depth:4 m; Max-Min Surface Water Level:2-6 m; Basin Area:9648.4 ha.
Water Volume	NA.
Water quality	Physicochemical parameter: Temp.:24°C, pH:5.9; Electric conductivity: N.A. Transparency:0.5 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: Azolla sps (LN: Panijhyau; HT: Ff; LU: None); Ludwigia adscendes (LN: Jadelo; HT: Es m; LU: None); Potamogeton nodosus (LN: Panikhar; HT: E m; LU: None); Utricularia australia (LN: Simghas; HT: S m; LU: None).
Major plants in basin	<i>Acacia catechu</i> (LN: Khayar; HT: Tr; LU: Tm, Med); <i>Dalbergia sisoo</i> (LN: Sisoo; HT: Tr; LU: Tm); <i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Fur, fuel); <i>Synzigium cumini</i> (LN: Jamun; HT: Tr; LU: Tm, Fr); <i>Adena cordifolia</i> (LN:Haldo; HT:Tr; LU:Tm); <i>Embllica officinalis</i> (LN:Amala; HT:Tr, LU:Med, Fruit); <i>Oroxylum indicum</i> (LN:Tatelo; HT:Tr; LU:Med); <i>Bombax ceiba</i> (LN:Simal; HT:Tr; LU:Med); <i>Butea monospermea</i> (LN:Palash; HT:Tr; LU:Tm, Rel); <i>Terminalia chebula</i> (LN:Harro; LU:Med); <i>Terminalia bellirica</i> (LN:Barro;

	HT:Tr; LU:Med); Terminalia elliptica (LN:Saanj; HT:Tr; LU:Tm, Fuel).
Fish	Puntius sps (LN: Sedari; LU: Meat); <i>Cetanoloharyngodon idella</i> (LN: Carp; LU: Meat); Hypophthalmichthys nobilis (LN: Carp; LU: Meat); Labeo rohita (LN: Rohu; LU: Meat)
Herpetofauna	Euphlyctis cyanophlyctis (LN: Tiktike Paha; EN: Skitting Frog); Buttaphrynus melanostictus (LN: Kalokhasre Bhyaguto; EN: Blackspined Toad); <i>Calotes versicolor</i> (LN: Cheparo; EN: Garden lizard); <i>Varanus bengalensis</i> (LN: Gohoro; EN: Monitor Lizard); Bungarus sps (LN: Karet; EN: Common Krait); <i>Bufo melanostictus</i> Schneider (LN: Khasre bhyaguto; EN: Black-spined toad); Python morulus (LN: Ajingar; EN: Python); Naja naja (LN: Cobra; EN: Common Cobra);
Bird	Anasacuta(LN:Haans;EN:PintailDuck);Ciconiaciconia(LN:Bh udiphor; EN:White Stork); Gallinula chloropus (LN:Bagale Simkukhura; EN:Common Moorhen); Eudynamis scolopacea(LN:Koili; EN:Asian Koel); Psittacula sps (LN:Suga; EN:Parrot); Eupupa epops (LN:Fapre; EN:Hoopoe); Francolinus francolinus (LN:Kalotitra; EN:Black Francolin); Halcyon smyrnensis (LN:Matikore; EN:Kingfisher); Leophronpercnopterus (LN:Seto giddha; EN:Egyptian vulture); <i>Casmerodius albus</i> (LN: Bastu Bakulla, EN:Great Egret); <i>Halcyon pileata</i> (LN:Fisto; EN:The Black-capped kingfisher); Vanellus indicus (LN:Huttityau; EN:Red-watteled lapwing).
Mammals	Herpestes sps (LN: Nyarimusa; EN: Mongoose); Canis aurens (LN: Syal; EN: Golden jackal); Felis bengalensis (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralu; EN: Jungle Cat)
Invasive alien species	Aescynomene sps (LN: Khekri; EN: Curly Indigo); <i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium sps</i> (LN: Banmara; EN: Thoroughwort), <i>Parthenium hysterophorus</i> (LN: Gajar jhar; EN: Famine weed); <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Sadepani Gaun; 50m from lake; Main Trail: Mahendra Highway- Ghodaghodi–Sadepani Gaun; 50 m from lake.
Land use	Forestland (50%); Agriculture (20%); Settlement (20%); Wetlands (0%); Others (10%).
Demography	Population: 616,697; Male: NA; Female: NA; HHs: 504; Ethnicity: Brahmin/Chhetri (21.13%); Janajati (41.53%); Dalit (1.11%); Other (5%). Major Religion: Hinduism. (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community None.
Livestock at basin	>200. Traditional production system None Traditional water use practices None. Cultural record None.
Genesis/origin of lake	None.



#### **D. Ecosystem Goods/Services**

Provisional services Fodder; Medicinal plants.  
Cultural services Aesthetic; Religious; Educational.

#### **E. Restoration/Management**

Structural management None.  
Non-structural management None.  
Conservation plan None.  
Monitoring plan None.

#### **F. Tourism information**

>1,000 visitors/yr; Transportable road to Sadepani;  
Tourism potential high. Needs promotional activities.

#### **G. Lake condition**

Degrading.

### 33. Nardahuwa Lake

Code: P7-D7-033  
Toposheet no: 2880 07B  
Date of inventory: June 03, 2016



#### A. General Feature

Conservation status None.  
Geographical coordination Lat:28.5475126°N; Lon:80.842146792°E; Alt:152 masl.  
Geographical position Mahabharat Range.  
Administrative feature FWDR; Kailali district; Godhariya Municipality; Ward-2; Masuriya.  
Boundary (Current: Kailari Rural Municipality; Ward no. 7)  
Core Area: Forest in all directions.  
Basin Area: Forest in all directions. Management responsibility Puraina Management Community.  
Wetlands type Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature Avg. Max: Temp: 40.50°C (Jun/July); Avg. Min: 17.70°C (Dec); Rainfall:1577 mm/yr. (www.beautifulfarwestnepal.blogspot.com).  
Area Core Area:13.7ha; Avg. Length:310 m; Avg. Width:150 m; Avg. Depth:3.5 m; Max-Min Surface Water Level:4 m-3 m; Basin Area:1022.8 ha  
Water Volume Peak Period: 5,279,796ltr; Dry period: 3,959,847 ltr; Inlet: None; Outlet: None.  
Water quality Physicochemical parameter: Temp.:25°C, pH:6; Transparency:0.4 m.  
Soil feature Grey color; Sandy loam texture.  
Shocks/vulnerability Water volume decreasing.  
Major aquatic plants Core Area: *Oryza rufipogon* (LN: Jungalidhan; HT: E m; LU: None); *Phragmites* sps (LN: Narkat; HT; Sr; LU: Fod); *Ceratophyllum demersum* (LN: Patai; HT: S m; LU: None); *Hydrilla* sps (LN: Panijhyau; HT: Ff; LU: None)  
Major plants in basin *Shorea robusta* (LN: sal; HT: Tr; LU: Ful); *Synzigium cumini* (LN: jamun; HT:TR; LU: Tm); *Adena cordifolia* (LN: Asna; HT: Tr; LU: Tm); *Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm, Fr); *Dalbergia sisoo* (LN: Sisoo; HT: Hr; LU: Med);  
Fish NA  
Herpetofauna *Buttaphrynus melanostictus* (LN: Kalokhasre Bhyaguto; EN: Blackspined Toad); *Calotes versicolor* (LN: Cheparo; EN: Garden lizard); *Varanus bengalensis* (LN: Gohoro; EN: Monitor Lizard); *Bungarus* sps (LN: Karet; EN: Common Krait); *Naja naja* (LN: Cobra; EN: Common Cobra).

Birds	Passer domesticus (LN: Bhagero; EN: Sparrow); Corvus splendens (LN: Kaag; EN: House Crow); Streptopelia Chinensis (LN: Dhukur; EN: Spotted Dove); Ocyrceros birostris (LN: Dhanes; EN: Grey Hornbill); Coracias bengalensis (LN: Theuwa; EN: Indian Roller); Halcyon smyrnensis (LN: Matikore; EN: Kingfisher).
Mammals	Felis bengalensis (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Monkey); <i>Felis chaus</i> (LN: Ban Biral; EN: Jungle Cat)
Invasive alien species	<i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Masuriya; 100 m from lake; Main Trail: Mahendra high to Chamala road; 100 m from lake.
Land use	Forestland (80%); Barrenland (10%); Wetlands (5%); Others (5%).
Demography	Population:22017; Male:10677; Female:11340; HHs:3828; Ethnicity: Brahmin/Chhetri (37.58%); Janajati (36.71%); Dalit (25.49%); Other (0.225%). Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No visitors. No tourism potential.

### G. Lake condition

Degrading.

### 34. Nathuniya Tal

Code: P7-D7-034

Toposheet no: 2880 07B

Date of inventory: June 03, 2016



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.54509199°N; Lon:80.85579955°E; Alt:151 masl.  
Geographical position Mahabharat Range.

Administrative feature

FWDR; Kailali district; Godhariya Municipality; Ward-2; Masuriya.

Boundary

(Current: Kailari Rural Municipality; Ward no. 7)

Core Area: Forest in all directions.

Basin Area: Forest in all directions. Management responsibility Puraina Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50°C (Jun/July); Avg. Min:17.70°C (Dec);  
Rainfall:1577 mm/yr.  
(www.beautifulfarwestnepal.blogspot.com).

Area

Core Area:5.8ha; Avg. Length:170 m; Avg. Width:90 m;  
Avg. Depth:3 m; Max-Min Surface Water Level:4 m-2 m;  
Basin Area:1022.8 ha

Water Volume

Peak Period: 1,737,223 ltr; Dry period: 868,612 ltr; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp.:25°C, pH:6;  
Transparency:0.4 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: Some species of algae observed.

Major plants in basin

*Shorea robusta* (LN: Sal; HT: Tr; LU: Fur, fuel); *Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Emblica officinalis* (LN: Amala; HT: Tr, LU: Med, Fruit); *Oroxylum indicum* (LN: Tatelo; HT: Tr; LU: Med); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Med).

Fish

*Cetanolaryngodon idella* (LN: Carp; LU: Meat); *Labeo rohita* (LN: Rohu; LU: Meat); *Hypophthalmichthys nobilis* (LN: Carp; LU: Meat) Herpetofauna *Bungarus* sps (LN: Karet; EN: Common Krait); *Bufo melanostictus* Schneider (LN: Khasre bhyaguto; EN: Black-spined toad); *Python morulus* (LN: Ajingar; EN: Python).

Birds

*Eudynamis scolopacea* (LN: Koili; EN: Asian Koel); *Psittacula* sps (LN: Suga; EN: Parrot); *Eupupa epops* (LN: Fapre; EN: Hoopoe); *Francolinus francolinus* (LN: Kalotitra);

	EN: Black Francolin); (LN: Dhanes; EN: Grey Hornbill); Coracias bengalensis (LN: Theuwa; EN: Indian Roller); Halcyon smyrnensis (LN: Matikore; EN: Kingfisher).
Mammals	Herpestes sps (LN: Nyarimusa; EN: Mongoose); Canis aurens (LN: Syal; EN: Golden jackal).
Invasive alien species	<i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed); <i>Xanthium strumarium</i> (LN: Bhede kuro; EN: Cockle bur sheep bar); <i>Ageratum conyzoides</i> (LN: Nilo gande; EN: Cheek weed); <i>Casia tora</i> (LN: Kose; EN: Sickie pod).
Endemic plant/animal	None

### C. Socio-Economy at Basin

Nearby settlement	Masuriya; 100 m from lake; Main Trail: Mahendra high to Chamala road; 100 m from lake.
Land use	Forestland (80%); Barrenland (10%); Wetlands (5%); Others (5%).
Demography	Population:22017; Male:10677; Female:11340; HHs:3828; Ethnicity: Brahmin/Chhetri (37.58%); Janajati (36.71%); Dalit (25.49%); Other (0.225%). Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants,
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No visitors. No tourism potential.

### G. Lake condition

Degrading.

## 35. Piparawa Tal

Code: P7-D7-035

Toposheet no: 2880 12B

Date of inventory: July 8, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.44428°N; Lon:80.97719°E; Alt:129 masl.

Geographical position

Tarai.

Administrative feature

FWDR; Kailali district; Trishakti-Bhajani Municipality; Ward no.3; Dudhawaphant.

Boundary

(Current: Bhajani Municipality; Ward no. 5)

Core Area: Paddy field in west and north; Forest in east and India in south.

Management responsibility

Basin Area: Farmland in west; India in south; Road in north and Kandra Nadi in east.

Wetlands type

Piparawa Mahila Samuha, Dudhawaphant.

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.5°C (Jun/July); Avg. Min:17.7°C (Dec); Rainfall:1577mm/yr. (www.beautifulfarwestnepal.blogspot.com).

Area

Core Area:40 ha; Avg. Length:600 m; Avg. Width:40 m; Avg. Depth:3 m; Max-Min Surface Water Level:4.5-1.5 m; Basin Area:190 ha.

Water Volume

Peak Period: 135,000,000 ltr; Dry period: 22,500,000 ltr; Inlet: None; Outlet: None.

Water quality

Physiochemical parameter: Temp.:36.8°C, pH:8.9; DO:4.3mg/l; Transparency:0.4m.

Soil feature

Red color; Clay loam.

Shocks/vulnerability

Water Volume decrease.

Major aquatic plants

Core Area: *Nymphaea stellata* (LN: Nilkamal; EN: Blue lotus; HT: Ff; LU: Orn); *Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: none).

Major plants in basin

Bombox ceiba (LN: Simal; HT: Tr; LU: Tm); Syzygium cumini (LN: jamun; HT:TR; LU: Tm, Md); Trewia nudiflora (LN: Vellor; HT: Tr; LU: Fd); Saccharum spontanim (LN: Kans; HT: Grass; LU: Fd); Imperata cylindrica (LN: Siru; HT: Grass; LU: Fd); Desnostachya bipinata (LN: Kush, HT: Gr, LU: Fd).

Fish

Clarias batrachus (LN: Mangur; LU: Meat); Labeo rohita (LN: Rohu; LU: Meat), Cirrhinus mrigala (LN: Naini; LU: Meat), Catla catla (LN: Vyakur; LU: Meat); Puntios sarona (LN:

## 35. Piparawa Tal

Code: P7-D7-035

Toposheet no: 2880 12B

Date of inventory: July 8, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.44428°N; Lon:80.97719°E; Alt:129 masl.

Geographical position

Tarai.

Administrative feature

FWDR; Kailali district; Trishakti-Bhajani Municipality; Ward no.3; Dudhawaphant.

Boundary

(Current: Bhajani Municipality; Ward no. 5)

Core Area: Paddy field in west and north; Forest in east and India in south.

Basin Area: Farmland in west; India in south; Road in north and Kandra Nadi in east.

Management responsibility

Piparawa Mahila Samuha, Dudhawaphant.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.5°C (Jun/July); Avg. Min:17.7°C (Dec); Rainfall:1577mm/yr.

([www.beautifulfarwestnepal.blogspot.com](http://www.beautifulfarwestnepal.blogspot.com)).

Area

Core Area:40 ha; Avg. Length:600 m; Avg. Width:40 m; Avg. Depth:3 m; Max-Min Surface Water Level:4.5-1.5 m; Basin Area:190 ha.

Water Volume

Peak Period: 135,000,000 ltr; Dry period: 22,500,000 ltr; Inlet: None; Outlet: None.

Water quality

Physiochemical parameter: Temp.:36.8°C, pH:8.9; DO:4.3mg/l; Transparency:0.4m.

Soil feature

Red color; Clay loam.

Shocks/vulnerability

Water Volume decrease.

Major aquatic plants

Core Area: *Nymphaea stellata* (LN: Nilkamal; EN: Blue lotus; HT: Ff; LU: Orn); *Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: none).

Major plants in basin

*Bombax ceiba* (LN: Simal; HT: Tr; LU: Tm); *Syzygium cumini* (LN: jamun; HT:TR; LU: Tm, Md); *Trewia nudiflora* (LN: Vellor; HT: Tr; LU: Fd); *Saccharum spontanum* (LN: Kans; HT: Grass; LU: Fd); *Imperata cylindrica* (LN: Siru; HT: Grass; LU: Fd); *Desmostachya bipinata* (LN: Kush, HT: Gr, LU: Fd).

Fish

*Clarias batrachus* (LN: Mangur; LU: Meat); *Labeo rohita* (LN: Rohu; LU: Meat), *Cirrhinus mrigala* (LN: Naini; LU: Meat), *Catla catla* (LN: Vyakur; LU: Meat); *Puntios sarona* (LN:

Genesis/origin of lake None.

**D. Ecosystem Goods/Services**

Provisional services Fish.  
Cultural services None.

**E. Restoration/Management**

Structural management None.  
Non-structural management None.  
Conservation plan None.  
Monitoring plan None.

**F. Tourism information**

No visitors; Good hotels in Bhajani Bazar; Motarable road to Bhajani; Transportation services to Bhajani Bazar; Needs promotional activities.

**G. Lake condition**

Degrading.



## 36. Puraina Lake (a)

Code: P7-D7-036

Toposheet no: 2880 07B

Date of inventory: June 03, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.92092871°N; Lon:80.38610351°E; Alt:212 masl.

Geographical position

Mahabharat Range.

Administrative feature

FWDR; Kailali district; Godhariya Municipality; Ward-2; Masuriya.

Boundary

Core Area: Forest in all directions.

Basin Area: Forest in all directions. Management responsibility Puraina Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50°C (Jun/July); Avg. Min:17.70°C (Dec); Rainfall: 1577 mm/yr. (www.beautifulfarwestnepal.blogspot.com).

Area

Core Area:13.1ha; Avg. Length:300 m; Avg. Width:170 m; Avg. Depth:4 m; Max-Min Surface Water Level:5 m-3 m; Basin Area:1022.8 ha

Water Volume

Peak Period: 7,238,430 ltr; Dry period: 4,343,058 ltr; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp: 25oC, pH: 6; Transparency: 0.4 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: Potamogeton nodosus (LN: Panikhar; HT: E m; LU: None); Oryza rufipogon (LN: Jungalidhan; HT: E m; LU: None); Hydrilla sps (LN: Panijhyau; HT: Ff; LU: None); Phragmites sps (LN: Narkat; HT; Sr; LU: Fod); Ceratophyllum demersem (LN: Patai; HT: S m; LU: None); Typha angustifoli (LN: Pater; EN: Broadleaf cattletail); *Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: none).

Major plants in basin

Shorea robusta (LN: Sal; HT: Tr; LU: Fur, fuel); Synzigium cumini (LN: Jamun; HT: Tr; LU: Tm, Fr); *Emblica officinalis* (LN: Amala; HT: Tr, LU: Med, Fruit); Oroxyllum indicum (LN: Tatelo; HT: Tr; LU: Med); Butea monospermea (LN: Palash; HT: Tr; LU: Tm, Rel); Bombax ceiba (LN: Simal; HT: Tr; LU: Med); Terminalia chebula (LN: Harro; LU: Med); Terminalia bellirica (LN: Barro; HT: Tr; LU: Med); Terminalia elliptica (LN: Saanj; HT: Tr; LU: Tm, Fuel).

Fish	<i>Cetanolaryngodon idella</i> (LN: Carp; LU: Meat); <i>Labeo rohita</i> (LN: Rohu; LU: Meat); <i>Hypophthalmichthys nobilis</i> (LN: Carp; LU: Meat)
Herpetofauna	<i>Euphlyctis cyanophlyctis</i> (LN: Tiktike Paha; EN: Skitting Frog); <i>Buttaphrynus melanostictus</i> (LN: Kalokhasre Bhyaguto; EN: Blackspined Toad); <i>Calotes versicolor</i> (LN: Cheparo; EN: Garden lizard); <i>Varanus bengalensis</i> (LN: Gohoro; EN: Monitor Lizard);
Birds	<i>Ardenola greyii</i> (LN: Sim Bakulla; EN: Pond Heron); <i>Ardea alba</i> (LN: Bakulla; EN: Great Egret); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow); <i>Passer domesticus</i> (LN: Bhagero; EN: Sparrow); <i>Streptopelia Chinensis</i> (LN: Dhukur; EN: Spotted Dove); <i>Dicrurus macrocercus</i> (LN: Chibe; EN: Drongo); <i>Casmerodius albus</i> (LN: Bakulla; EN: Great Egret); <i>Turdoides striata</i> (LN: Bhyakur; EN: Jungle Babbler).
Mammals	<i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennant</i> (LN: Lokharke; EN: Northern palm squirrel; EN: Northern); <i>Felis viverrina</i> (LN: Malaha biralo; EN: Fishing cat)
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium sps</i> (LN: Banmara; EN: Thoroughwort), <i>Parthenium hysterophorus</i> (LN: Gajar jhar; EN: Famine weed).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Masuriya; 100 m from lake; Main Trail: Mahendra high to Chamala road; 100 m from lake.
Land use	Forestland (97%); Barrenland (1%); Shrubland (1%); Grassland (1%).
Demography	Population:22017; Male:10677; Female:11340; HHs:3828; Ethnicity: Brahmin/Chhetri (37.58%); Janajati (36.71%); Dalit (25.49%); Other (0.225%). Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.

Monitoring plan

None.

**F. Tourism information**

No visitors. No tourism potential.

**G. Lake condition**

Degrading.

### 37.PurainaTal (b)

Code: P7-D7-037

Toposheet no:2880 07D

Date of inventory: July04, 2016



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.58257°N; Lon:80.72189°E; Alt:148 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailalidistrict; Dhangadi Sub-metropolitan; Ward no.18; Himpur.

Boundary

(Current: Dhangadi Municipality; Ward no. 19)

Core Area: Farmland in all directions.

Management responsibility

Basin Area: Kheda to PurainaTal trail in north and west; I-Gaon to Bahuliyatrail in east, Human settlement i.e. Himpur. Dhangadhi Sub-Metropolitan.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.5°C (Jun/July); Avg. Min:17.7°C (Dec);  
Rainfall:1577mm/yr.  
([www.beautifulfarwestnepal.blogspot.com](http://www.beautifulfarwestnepal.blogspot.com)).

Area

Core Area:1.7 ha; Avg. Length:90 m; Avg. Width:50 m;  
Avg. Depth:2 m; Max-Min Surface Water Level:3-1 m; Basin Area:100ha.

Water Volume

Peak Period: 18,000,000ltr; Dry period: 2,800,000 ltr; Inlet: None; Outlet: None.

Water quality

Physiochemical parameter: Temp.:30°C, pH:7.6;  
DO:3.9mg/l; Transparency:0.3m.

Soil feature

Grey color; Clay loam.

Shocks/vulnerability

WaterVolume decrease.

Major aquatic plants

Core Area: Nymphaeastellata (LN: Nilkamal; EN: Blue lotus;  
HT: Ff; LU: Orn).

Major plants in basin

Bomboxceiba (LN: Simal; HT: Tr; LU: Tm); Syzygiumcumini (LN: jamun; HT:TR; LU: Tm, Md); Dalbergiasisoo (LN: Sisoo; HT: Tr; LU: Tm); Imperatacylindrica (LN: Siru; HT: Grass; LU: Fd); Eucalyptus alba (LN: Masala; HT: Tr; LU: Tm); Trewianudiflora (LN: Vellor; HT: Tr; LU: Fd); schleicheraoleosa (LN: Kusu m; HT: Tr; LU: Fd); Calotropisgigantea (LN: Ankh; HT: Tr; LU: Med); Desmostachyabipinata (LN: Kush; HT: Gr; LU: Fd).

Fish

Clariasbatrachus (LN: Mangur; LU: Meat); Labeorohita (LN: Rohu; LU: Meat), Cirrhinusmrigala (LN: Naini; LU: Meat), Catlacatla (LN: Vyakur; LU: Meat); Puntiossarona (LN: Kande; LU: Meat); Puntiocticto (LN: Bhite; LU: Meat);

Cetanoharyngodonidella (LN: Grass Carp; LU: Meat); Hypophthalmichthys nobilis (EN: Bighead Carp; LU: Meat).

Herpetofauna Bufostomaticus (LN: Khatkhyarri Magoba; EN: Assam Toad); Kaloulataprobanica (LN: Byaguto; EN: Srilanka Bullfrog); Euphlyctiscyanophlyctis (LN: Tik-tike Paha; EN: Skittring Frog); Hoplobatrachus crassus (LN: Sirke Paha; EN: Jerdon's Bullfrog); Xenochrophispiscator (LN: PaniSarpa; EN: Chequered Keelback Watersnake); Amphiesma stolatum (LN: Harara; EN: Buff-stripped Keelback).

Birds Phalacrocorax niger (LN: Sano Jalewa; EN: Little Cormorent); Bulbulcus ibis (LN: BastuBakulla; EN: Cattle Egret); Cerylerudis (LN: ChhirbireMatikore; EN: Pied Kingfisher); Halcyon smyrnensis (LN: Setokanthe Matikore; EN: White-throated Kingfisher); Glaucidium rabiatum (LN: Dundula; EN: Jungle Owlet); Ichthyophaga ichthyoetus (LN: Machhakul; EN: Grey-headed Fisheagle); Vanellus indicus (LN: Huttityau; EN: Red-wattled Lapwing).

Mammals Funambulus pennant (LN: Panch Darke Lokharke; EN: Northern Palm Squirrel); Millardiameltada (LN: MakhamaliMuso; EN: Common Soft-furred Rat); Bandicot indica (LN: ThuloDhandeMuso; EN: Greater Bandicot-rat); Felis chaus (LN: Ban Biral; EN: Jungle Cat); Canis aureus (LN: Shyal; EN: Golden Jackle).

Invasive alien species Ipomoea carnea (LN: Besara m; EN: Shrubby Morning Glory); Ageratum conyzoides (LN: Gandhe; EN: BillyGoatWeedParthenum hysterophorus (LN: Kanike Ghans; EN: Bitter Weed).

Endemic plant/animal None.

### C. Socio-Economy at Basin

Nearby settlement Himpurgaon; 50m from lake; Main Trail: I-Gaun to Bahuliya trail; 200m from lake.

Land use Forestland (15%); Agriculture (70%); Settlement (10%); Other (5%).

Demography Population: 20,508; Male: 9,681; Female: 10,827; HHs: 3,844; Ethnicity: Brahmin/ Chhetri (38.04%); Janajati (44.89%); Dalit (16.87%); Other (0.20%). Major Religion: Hinduism/ Buddhism (CBS 2012).

Jurisdiction/ownership State.

Wetlands dependent community Tharu.

Livestock at basin >500.

Traditional production system Fish farming.

Traditional water use practices None.

Cultural record None.

Genesis/origin of lake None.

### D. Ecosystem Goods/Services

Provisional services None.

Cultural services None.

### E. Restoration/Management

Structural management None.

Non-structural management  
Conservation plan  
Monitoring plan

None.  
None.  
None.

**F. Tourism information**

No visitors; Good hotels in Dhangadi Bazar; Motarable road to Phulbari; Transportation services to Phulbari but private vehicles refer to the Himpur; Needs promotional activities.

**G. Lake condition**

Degrading.

## 38. Raji Tal

Code: P7-D7-038

Toposheet no:2880 03D

Date of inventory: July 6, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:28.84768°N; Lon:80.63441°E; Alt:275 masl. Geographical position Tarai.
Administrative feature	FWDR; Kailali district; Godawari VDC.; Ward no.8; Basanta Tol. (Current: Godawari Municipality; Ward no. 4)
Boundary	Core Area: Forest in in all directions. Basin Area: Basaini forest in west; Ansipalaune danda in north; Kharpani Maindan in south; Basanta tol in east.
Management responsibility	Godawari VDC.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp:40.5°C (Jun/July); Avg. Min:17.7°C (Dec); Rainfall:1577mm/yr. ( <a href="http://www.beautifulfarwestnepal.blogspot.com">www.beautifulfarwestnepal.blogspot.com</a> ).
Area	Core Area:1.3062 ha; Avg. Length:100 m; Avg. Width:60; Avg. Depth:1.2 m; Max-Min Surface Water Level:1.7 m -0.5 m; Basin Area:100 ha.
Water Volume	Peak Period: 13,090,000 ltr; Dry period: 1,000,000 ltr; Inlet: None; Outlet: None.
Water quality	Physiochemical parameter: Temp.:30.3°C, pH:8.1; DO:4.2mg/l; Transparency:0.3m.
Soil feature	Gray color; Clay loam.
Shocks/vulnerability	Water Volume decrease.
Major aquatic plants	Core Area: None.
Major plants in basin	Syzygium cumini (LN: jamun; HT:TR; LU: Tm, Md); Terminalia alata (LN: Asna; HT: Tr; LU: Tm); Adina cordifolia (LN: Haldu; HT: Tr; LU: Tm); Mallotus philippensis (LN: Sindhure; HT: Hr; LU: Fd); Trewia nudiflora (LN: Vellor; HT: Tr; LU: Fd).
Fish	NA
Herpetofauna	<i>Bufo melanostictus</i> (LN: Khashre Bhyaguto; EN: Black-spined Toad); <i>Kaloula taprobanica</i> (LN: Byaguyo; EN: Srilanka Bullfrog); <i>Euphlyctis cyanophlyctis</i> (LN: Tik-tike Paha; EN: Skittring Frog); <i>Varanus bengalensis</i> (LN: Bainse Gohoro; EN: Bengal Monitor); <i>Asynblepharus sikimmensis</i>

	(LN: Chikni Girgit; EN: Sikkem Skink); Naja naja (LN: Goman Sarpa; EN: Spectacled Cobra).
Birds	Phalacrocorax niger (LN: Sano Jalewa; EN: Little Cormorent); Bulbulcus ibis (LN: Bastu Bakulla; EN: Cattle Egret); Halcyon capensis (LN: Thulo Matikore; EN: Strok-billed Kingfisher); Halcyon smyrnensis (LN: Setokanthe Matikore; EN: White-throated Kingfisher); Ichthyophaga ichthyaetus (LN; Machhakul; EN: Grey-headed Fisheagle); Pavo cristatus (LN: Majur; EN: Peacock).
Mammals	Lepus nigricollis (LN: Ban Kharayo; EN: Indian Hare); Funambulus pennant (LN: Panch Darke Lokharke; EN: Northern Palm Squirrel); Hystrix indica (LN: Jure Dumsi; EN: Indian Crested Porcopine); Millardia meltada (LN: Makhamali Muso; EN: Common Soft-furred Rat); Munticus muntjak (LN: Ratuwa; EN: Barking Deer); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); Canis aureus (LN: Shyal; EN: Golden Jackle); <i>Sus scrofa</i> (LN: Bandel; EN: Wild Boar); Boselaphus tragocamelus (LN: Nil Gain; EN: Blue Bull).
Invasive alien species	Cassia tora (LN: Corkor; EN: Sicklesena).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Basanta Tol; 200m from lake; Main Trail: Shyaule to Bandagada roadtrail; 250m from lake.
Land use	Forestland (80%); Grassland (3%); Farmland (10%); Settlement (5%); Other (2%).
Demography	Population: 15,572; Male: 7,052; Female: 8,520; HHs: 2,906; Ethnicity: Brahmin/Chhetri (42.62%); Janajati (8.27%); Dalit (48.62%); Other (0.59%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None
Livestock at basin	>2000.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fish.
Cultural services	None.

### E. Restoration/Management

Structural management	Wall at the periphery by VDC.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No visitors; Good hotels in Attariya Bazar; Motarable road to Bandagada; Transportation services to Shyaule Bazar but private vehicles refer to the Basanta Tol; Needs promotional activities.

### G. Lake condition

Degrading.



### 39. Rara Lake

Code: P7-D7-039  
Toposheet no: 2880 08A  
Date of inventory: Jun 2, 2016



#### A. General Feature

Conservation status None.  
Geographical coordination Lat:28.73314522° N; Lon:80.77192201°E; Alt:174 masl.  
Geographical position Terai Range.  
Administrative feature FWDR; Kailali district; Chaumala V.D.C; Ward-1; Khurkhuriya.  
Boundary (Current: Gauriganga Municipality; Ward no. 4)  
Core Area: Forest in all directions.  
Basin Area: Forest in all directions.  
Management responsibility Khurkhuriya Conservation Committee with the representation of DDC.  
Wetlands type Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature Avg. Max: Temp:40.5°C (Jun/July); Avg. Min:17.7°C (Dec);  
Rainfall:1577mm/yr.  
(www.beautifulfarwestnepal.blogspot.com).  
Area Core Area:2.1 ha; Avg. Length:200 m; Avg. Width:190 m;  
Avg. Depth:4 m; Max-Min Surface Water Level:5-3 m;  
Basin Area:34 ha  
Water Volume NA.  
Water quality Physicochemical parameter: Temp.:24°C, pH:5.9; Electric conductivity: NA. Transparency:0.5 m.  
Soil feature Grey color; Sandy loam texture.  
Shocks/vulnerability Water volume decreasing.  
Major aquatic plants Core Area: Utricularia australia (LN: Simghas; HT: S m; LU: None); Oryza rufipogon (LN: Jungalidhan; HT: E m; LU: None); Phragmites sps (LN: Narkat; HT; Sr; LU: Fod); Ceratophyllum demersum (LN: Patai; HT: S m; LU: None); Hydrilla sps (LN: Panijhyau; HT: Ff; LU: None).  
Major plants in basin *Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Shorea robusta* (LN: Sal; HT: Tr; LU: Fur, fuel); *Synzigium cumini* (LN: Jamun; HT: Tr; LU: Tm, Fr); *Adena cordifolia* (LN: Haldo; HT: Tr; LU: Tm); *Embllica officinalis* (LN: Amala; HT: Tr, LU: Med, Fruit); *Oroxylum indicum* (LN: Tatelo; HT: Tr; LU: Med); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Med);  
Fish None

Herpetofauna	Bungarus sps (LN: Karet; EN: Common Krait); <i>Bufo melanostictus</i> Schneider (LN: Khasre bhyaguto; EN: Black-spined toad); Python morulus (LN: Ajingar; EN: Python).
Birds	Passer domesticus (LN: Bhagero; EN: Sparrow); Corvus splendens (LN: Kaag; EN: House Crow); Streptopelia Chinensis (LN: Dhukur; EN: Spotted Dove); Dicrurus macrocercus (LN: Chibe; EN: Drongo); Ocyrceros birostris (LN: Dhanes; EN: Grey Hornbill); Vanellus indicus (LN: huttititau; EN: Red-wattled lapwing); Falco tinnunculus (LN: Baaj; EN: Common Kestrel); Turdoides striata (LN: Bhyakur; EN: Jungle Babbler).
Mammals	Herpestes sps (LN: Nyarimusa; EN: Mongoose); Canis aureus (LN: Syal; EN: Golden jackal).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium sps</i> (LN: Banmara; EN: Thoroughwort); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed); <i>Xanthium strumarium</i> (LN: Bhede kuro; EN: Cockle bur sheep bar).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Khurkhuriya Gaun; 50m from lake; Main Trail: Mahendra Highway Chaumala–Khurkhuriya Gaun; 50 m from lake.
Land use	Forestland (90%); Agriculture (10%).
Demography	Population: 27,586; Male: 12,729; Female: 14,857; HHs: 5,293; Ethnicity: Brahmin/Chhetri (50%); Janajati (30%); Dalit (18%); Other (2%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	NA.
Traditional production system	None
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No tourism potential.

**G. Lake condition** Degrading.

## 40. Rupiya Tal

Code: P7-D7-040

Toposheet no: 2880 08B

Date of inventory: June 02, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.57333327°N; Lon:80.91472439°E; Alt:152 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailali district; Trishakti-Bhajani Municipality; Ward-9; Sayapatri.

Boundary

(Current: Bhajani Municipality; Ward no. 9)

Core Area: Forest in all directions.

Management responsibility

Basin Area: Forest in all directions.

Wetlands type

Sayapatri Lake Management Community.

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50°C(Jun/July); Avg.Min:17.70°C(Dec);  
Rainfall: 1577 mm/yr.  
(www.beautifulfarwestnepal.blogspot.com).

Area

Core Area:6.7 ha; Avg. Length:400 m; Avg. Width:120 m;  
Avg. Depth:4 m; Max-Min Surface Water Level:5 m-3 m;  
Basin Area:623.6 ha

Water Volume

Peak Period: 6,812,640 ltr; Dry period: 4,087,584 ltr; Inlet:  
None; Outlet: None.

Water quality

Physicochemical parameter: Temp.:25°C, pH:6;  
Transparency:0.5 m.

Soil feature

Dark color; Clay loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: Utricularia australia (LN: Simghas; HT: S m; LU: None);  
Oryza rufipogon (LN: Jungalidhan; HT: E m; LU: None);  
Phragmites sps (LN: Narkat; HT; Sr; LU: Fod);  
Ceratophyllum demersum (LN: Patai; HT: S m; LU: None);  
Hydrilla sps (LN: Panijhyau; HT: Ff; LU: None).

Major plants in basin

Dalbergia sisoo (LN: Sisoo; HT: Tr; LU: Tm); *Emblia officinalis* (LN: Amala; HT: Tr, LU: Med, Fruit); *Shorea robusta* (LN: Sal; HT: Tr; LU: Fur, fuel); *Synzigium cumini* (LN: Jamun; HT: Tr; LU: Tm, Fr); *Adena cordifolia* (LN: Haldo; HT: Tr; LU: Tm); *Oroxylum indicum* (LN: Tatelo; HT: Tr; LU: Med); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Med); *Cetanolaryngodon idella* (LN: Carp; LU: Meat); *Labeo rohita* (EN: Rohu; LU: Meat) *Hypophthalmichthys nobilis* (LN: Carp; LU: Meat)

Fish

Herpetofauna	Bungarus sps (LN: Karet; EN: Common Krait); <i>Bufo melanostictus</i> Schneider (LN: Khasre bhyaguto; EN: Black-spined toad); Python morulus (LN: Ajingar; EN: Python).
Birds	Passer domesticus (LN: Bhagero; EN: Sparrow); Corvus splendens (LN: Kaag; EN: House Crow); Streptopelia Chinensis (LN: Dhukur; EN: Spotted Dove); Dicrurus macrocercus (LN: Chibe; EN: Drongo); Ocyrceros birostris (LN: Dhanes; EN: Grey Hornbill); Vanellus indicus (LN: huttitau; EN: Red-watteled lapwing); Falco tinnunculus (LN: Baaj; EN: Common Kestrel); Turdoides striata (LN: Bhyakur; EN: Jungle Babbler).
Mammals	Herpestes sps (LN: Nyarimusa; EN: Mongoose); Canis aurens (LN: Syal; EN: Golden jackal); Felis bengalensis (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); Funambulus pennant (LN: Lokharke; EN: Squirrel);
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium sps</i> (LN: Banmara; EN: Thoroughwort); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed); Xanthium strumarium (LN: Bhide kuro; EN: Cockle bur sheep bar).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Sayapatri Gaun; 100m from lake; Main Trail: Dongpur to Sayapatri trail; 200m from lake.
Land use	Forestland (98%); Shrubland (1%); Grassland (1%).
Demography	Population:14917; Male:7507; Female:7410; HHs:20507; Ethnicity: Brahmin/Chhetri (19.44%); Janajati (68.05%); Dalit (12.24); Other (0.27%). Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	Dongpur community
Livestock at basin	>1000.
Traditional production system	Rice field.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants; Timber.
Cultural services	None.

### E. Restoration/Management

Structural management	Dam, by local community.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No visitors; No tourism potential.

### G. Lake condition

Degrading.

## 41. Sahadeva Tal

Code: P7-D7-041

Toposheet no: 2880 07B

Date of inventory: June 03, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:28.74672382°N; Lon:80.71506191°E; Alt:166 masl. Geographical position Tarai.
Administrative feature	FWDR; Kailali district; Dhangadhi Municipality; Ward-16; Rampur. (Current: Dhangadi Municipality; Ward no. 16)
Boundary	Core Area: Forest in West and north directions; Rampur Gaun in East; School in south. Basin Area: Forests in all directions.
Management responsibility	Bhedababa lake Management Community.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp:40.50oC (Jun/July); Avg. Min:17.70oC (Dec); Rainfall: 1577 mm/yr. (www.beautifulfarwestnepal.blogspot.com).
Area	Core Area:9.4ha; Avg. Length:300 m; Avg. Width:190 m; Avg. Depth:3.5 m; Max-Min Surface Water Level:4 m-3 m; Basin Area:193.4 ha.
Water Volume	Peak Period: 6,472,008 ltr; Dry period: 4,854,006 ltr; Inlet: None; Outlet: None.
Water quality	Physicochemical parameter: Temp.:25oC, pH:6; Transparency:0.3 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: Nelumbo nucifera (LN: Kamal; HT: Ff; LU: Orn); Azolla sps (LN: Panijhyau; HT: Ff; LU: None); Potamogeton nodosus (LN: Panikhar; HT: E m; LU: None); Typha angustifolia (LN: Pater; EN: Broadleaf cattletail) <i>Nymphaea stellata</i> (LN: Nilkamal; EN: Blue lotus; HT: Ff; LU: Orn); <i>Sphagnum nepalensis</i> (LN: Jhyau; HT: E m; LU: none).
Major plants in basin	<i>Shorea robusta</i> (LN: sal; HT: Tr; LU: Ful); <i>Synzigium cumini</i> (LN: jamun; HT:TR; LU: Tm); <i>Adena cordifolia</i> (LN: Asna; HT: Tr; LU: Tm); <i>Acacia catechu</i> (LN: Khayar; HT: Tr; LU: Tm, Fr); <i>Dalbergia sisoo</i> (LN: Sisoo; HT: Hr; LU: Med); <i>Oroxylum indicum</i> (LN: Tatelo; HT: Tr; LU: Med).
Fish	<i>Cetanolaryngodon idella</i> (LN: Carp; LU: Meat); <i>Hypophthalmichthys nobilis</i> (LN: Carp; LU: meat).

Herpetofauna	<i>Bufo melanostictus</i> Schneider (LN: Khasre bhyaguto; EN: Black-spined toad); <i>Polypedtes maculates</i> (LN: Rukh Bhyaguto); Python morulus (LN: Ajingar; EN: Python); Ptyas mucosa (LN: Dhaman; EN: Ratsnake).
Birds	<i>Casmerodius albus</i> (LN: Bakulla; EN: Great Egret); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Vanellus indicus</i> (LN: huttityau; EN: Red-watteled lapwing); <i>Falco tinnunculus</i> (LN: Baaj; EN: Common Kestrel); <i>Treron pompadora</i> (LN: Dhukur EN: Pompadour Green Pigeon).
Mammals	<i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Northen palm squirrel; EN: Northen); <i>Felis viverrina</i> (LN: Malaha biralo; EN: Fishing cat); <i>Vulpes bengalensis</i> (LN: Fushre fauro; EN: Bengal Fox) <i>Semnopithecus hector</i> (LN: Dedu; EN: Terai grey langur).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium</i> sp (LN: Banmara; EN: Thoroughwort); <i>Parthenium hysterophorus</i> (LN: Gajar jhar; EN: famine weed); <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Rampur; 50 m from lake; Main Trail: Chaumal bazar to Rampur road; 50 m from lake.
Land use	Forestland (70%); Barrenland (15%); Wetlands (10%); Others (5%).
Demography	Population:10,1970; Male: 51,439; Female: 50,531; HHs: 21,030; Ethnicity: Brahmin/Chhetri (50%); Janajati (25%); Dalit (10%); Other (15%). Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>1000.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Bhedababa Temple.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

Only local visitors; No tourism potential.

### G. Lake condition

Degrading.

## 42. Sarkiniya Lake

Code: P7-D7-042

Toposheet no: 2880 07B

Date of inventory: June 03, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.55463772°N; Lon:80.84224385°E; Alt:155 masl.  
Geographical position Mahabharat Range.

Administrative feature

FWDR; Kailali district; Godhariya Municipality; Ward-2; Masuriya.

Boundary

(Current: Kailari Rural Municipality; Ward no. 7)

Core Area: Forest in all directions.

Basin Area: Forest in all directions. Management responsibility Puraina Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50°C (Jun/July); Avg. Min:17.70°C (Dec); Rainfall: 1577 mm/yr. (www.beautifulfarwestnepal.blogspot.com).

Area

Core Area:9ha; Avg. Length:150 m; Avg. Width:70 m; Avg. Depth:2 m; Max-Min Surface Water Level:3 m-1 m; Basin Area1022.8 ha.

Water Volume

Peak Period: 894,159 ltr; Dry period: 447,080 ltr; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp.:25°C, pH:6; Transparency:0.2 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Typha angustifolia* (LN: Pater; EN: Broadleaf cattletail); *Nymphaea stellata* (LN: Nilkamal; EN: Blue lotus; HT: Ff; LU: Orn); *Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: none).

Major aquatic plants

Core Area: *Oryza rufipogon* (LN: Jungalidhan; HT: E m; LU: None); *Phragmites* sps (LN: Narkat; HT; Sr; LU: Fod); *Ceratophyllum demersum* (LN: Patai; HT: S m; LU: None); *Hydrilla* sps (LN: Panijhyau; HT: Ff; LU: None)

Major plants in basin

*Shorea robusta* (LN: sal; HT: Tr; LU: Ful); *Synzigium cumini* (LN: jamun; HT:TR; LU: Tm); *Adena cordifolia* (LN: Asna; HT: Tr; LU: Tm); *Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm, Fr); *Dalbergia sisoo* (LN: Sisoo; HT: Hr; LU: Med);

Fish

NA

Herpetofauna	Buttaphrynus melanostictus (LN: Kalokhasre Bhyaguto; EN: Blackspined Toad); <i>Calotes versicolor</i> (LN: Cheparo; EN: Garden lizard); <i>Varanus bengalensis</i> (LN: Gohoro; EN: Monitor Lizard); <i>Bungarus</i> sps (LN: Karet; EN: Common Krait); <i>Naja naja</i> (LN: Cobra; EN: Common Cobra).
Birds	<i>Passer domesticus</i> (LN: Bhagero; EN: Sparrow); <i>Corvus splendens</i> (LN: Kaag; EN: House Crow); <i>Streptopelia Chinensis</i> (LN: Dhukur; EN: Spotted Dove); <i>Ocyrceros birostris</i> (LN: Dhanes; EN: Grey Hornbill); <i>Coracias bengalensis</i> (LN: Theuwa; EN: Indian Roller); <i>Halcyon smyrnensis</i> (LN: Matikore; EN: Kingfisher).
Mammals	<i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Monkey); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat)
Invasive alien species	<i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Masuriya; 100 m from lake; Main Trail: Mahendra high to Chamala road; 100 m from lake.
Land use	Forestland (50%); Agriculture (10%); Settlement (30%); Wetlands (5%); Others (5%).
Demography	Population:22017; Male:10677; Female:11340; HHs:3828; Ethnicity: Brahmin/Chhetri (37.58%); Janajati (36.71%); Dalit (25.49%); Other (0.225%). Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent communi	None.
Livestock at basin	>500.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information** No visitors; No hotels at lake site; No tourism potential.

**G. Lake condition** Degrading.



### 43. Siddha Baba Pokhari

Code: P7-D7-043

Toposheet no:2880 03C

Date of inventory: July 5, 2016



#### A. General Feature

Conservation status	None.
Geographical coordination	Lat:28.77614°N; Lon:80.60146°E; Alt:182 masl. Geographical position Tarai.
Administrative feature	FWDR; Kailali district; Attariya Municipality; Ward no.7; Phakalpur.
Boundary	(Current: Dhangadi Municipality; Ward no. 8) Core Area: Forest in eas; grassland in west and north and Phakalpur to Zonapur trail in south. Basin Area: Phakalpur to Zonapur trail in west and north; Siddha Baba Community forest in east and south.
Management responsibility	Siddha Baba Community Forest, Phakalpur.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	Avg. Max: Temp:40.5°C (Jun/July); Avg. Min:17.7°C (Dec); Rainfall:1577mm/yr.(www.beautifulfarwestnepal.blogspot.com).
Area	Core Area: 0.5661 ha; Avg. Length:50 m; Avg. Width:50 m; Avg. Depth:1 m; Max-Min Surface Water Level:1.5-0.5 m; Basin Area:30 ha.
Water Volume	Peak Period: 5,400,000 ltr; Dry period: 600,000 ltr; Inlet: None; Outlet: None.
Water quality	Physiochemical parameter: Temp.: 33°C, pH:8.7; DO:5.7mg/l; Transparency:0.25m.
Soil feature	Red color; Clay loam.
Shocks/vulnerability	Water Volume decrease.
Major aquatic plants	Core Area: <i>Nymphaea stellata</i> (LN: Nilkamal; EN: Blue lotus; HT: Ff; LU: Orn); <i>Sphagnum nepalensis</i> (LN: Jhyau; HT: E m; LU: none).
Major basin plants	<i>Syzygium cumini</i> (LN: jamun; HT:TR; LU: Tm, Md); <i>Dalbergia sisoo</i> (LN: Sisoo; HT: Tr; LU: Tm); <i>Trewia nudiflora</i> (LN: Vellor; HT: Tr; LU: Fd); <i>Eucalyptus alba</i> (LN: Masala; HT: Tr; LU: Tm); <i>Terminalia alata</i> (LN: Asna; HT: Tr; LU: Tm); <i>Shorea robusta</i> (LN: sal; HT: Tr; LU: Tm).
Fish	<i>Cetanolaryngodon idella</i> (LN: Grass Carp; LU: Meat); <i>Hypophthalmichthys nobilis</i> (EN: Bighead Carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver Carp; LU: Meat); <i>Labeo rohita</i> (LN: Rohu; LU: Meat), <i>Cirrhinus mrigala</i> (LN: Naini; LU: Meat), <i>Catla catla</i> (LN: Vyakur; LU: Meat).

Herpetofauna	<i>Bufo melanostictus</i> (LN:Khashre Bhyaguto; EN:Black-spined Toad); <i>Kaloula taprobanica</i> (LN:Byaguyo; EN:Srilanka Bullfrog); <i>Euphlyctis cyanophlyctis</i> (LN:Tik-tike Paha; EN:Skittering Frog); <i>Hoplobatrachus crassus</i> (LN:Sirke Paha; EN:Jerdon's Bullfrog); <i>Xenochrophis piscator</i> (LN:Pani Sarpa; EN:Chequered Keelback Watersnake); <i>Varanus flavescens</i> (LN:Sun Gohoro; EN:Golden Monitor Lizard); <i>Indotestudo elongata</i> (LN:Kachhuwa; EN:Yellow-headed Tortoise); <i>Asynblepharus sikimensis</i> (LN:Chikni Girgit; EN:Sikkem Skink).
Birds	<i>Phalacrocorax niger</i> (LN: Sano Jalewa; EN: Little Cormorent); <i>Bulbulcus ibis</i> (LN: Bastu Bakulla; EN: Cattle Egret); <i>Halcyon capensis</i> (LN: Thulo Matikore; EN: Strok-billed Kingfisher); <i>Halcyon smyrnensis</i> (LN: Setokanthe Matikore; EN: White-throated Kingfisher); <i>Metopidius indicus</i> (LN: Lama Aunle; EN: Bronze-winged Jacana); <i>Ichthyophaga ichthyaetus</i> (LN; Machhakul; EN: Grey-headed Fisheagle); <i>Coracias beglalensis</i> (LN: Theuwa; EN: Indian Roller).
Mammals	<i>Lupus nigricollis</i> (LN: Ban Kharayo; EN: Indian Hare); <i>Funambulus pennant</i> (LN: Panch Darke Lokharke; EN: Northern Palm Squirrel); <i>Hystrix indica</i> (LN: Jure Dumsi; EN: Indian Crested Porcopine); <i>Millardia meltada</i> (LN: Makhamali Muso; EN:Common Soft-furred Rat); <i>Bandicota indica</i> (LN:Thulo Dhande Muso; EN:Greater Bandicot-rat); <i>Felis chaus</i> (LN:Ban Biralo; EN:Jungle Cat); <i>Canis aureus</i> (LN:Shyal; EN; Golden Jackle); <i>Sus scrofa</i> (LN:Bandel; EN:Wild Boar); <i>Axis axis</i> (LN: Chital; EN:Spotted Deer).
Invasive alien species	<i>Ipomoea carnea</i> (LN: Besara m; EN: Shrubby Morning Glory); <i>Ageratum conyzoides</i> (LN: Gandhe; EN: Billy Goat Weed).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Phakalpur gaon; 20m from lake; Main Trail: Shyaule to Zonapur road trail; 300m from lake.
Land use	Forestland (60%); Grassland (10%); Farmland (15%); Settlement (10%); Other (5%).
Demography	Population: 11,400; Male: 5,428; Female: 5,972; HHs: 1,912; Ethnicity: Brahmin/Chhetri (35.42%); Janajati (52.82 %); Dalit (11.56%); Other (0.20%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	Tharu.
Livestock at basin	No livestock.
Traditional production system	Fish farming.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	None.
Cultural services	None.

### **E. Restoration/Management**

Structural management	None.
Non-structural management	Boring water inlet.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

No visitors; Good hotels in Attariya Bazar; Motarable road to Zonapur; Transportation services to Shyaule Bazar but private vehicles refer to the Phakalpur; Needs promotional activities.

### **G. Lake condition**

Degrading.

## 44. Soniya Tal

Code: P7-D7-044

Toposheet no: 2880 08B

Date of inventory: June 03, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.56935707°N; Lon:80.91074244°E; Alt:152 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailali district; Trishakti-Bhajani Municipality; Ward-9; Dongpur.

Boundary

(Current: Bhajani Municipality; Ward no. 9)

Core Area: Forest in all directions.

Basin Area: Forest in all directions.

Management responsibility

Sayapatri Lake Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50°C (Jun/July); Avg. Min:17.70°C (Dec); Rainfall:1577mm/yr.(www.beautifularwestnepal.blogspot.com).

Area

Core Area:24.1 ha; Avg. Length:700 m; Avg. Width:350 m; Avg. Depth:3 m; Max-Min Surface Water Level:4 m-2 m; Basin Area:623.6 ha.

Water Volume

Peak Period: 27,818,280 ltr; Dry period: 13,909,140 ltr; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp:25°C, pH:6; Transparency:0.5 m.

Soil feature

Dark color; Clay loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Typha angustifolia* (LN: Pater; EN: Broadleaf cattletail); *Nymphaea stellata* (LN: Nilkamal; EN: Blue lotus; HT: Ff; LU: Orn); *Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: none).

Major aquatic plants

Core Area: *Utricularia australia* (LN: Simghas; HT: S m; LU: None); *Oryza rufipogon* (LN: Jungalidhan; HT: E m; LU: None); *Phragmites sps* (LN: Narkat; HT; Sr; LU: Fod); *Ceratophyllum demerse* (LN: Patai; HT: S m; LU: None); *Hydrilla sps* (LN: Panijhyau; HT: Ff; LU: None).

Major plants in basin

*Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Shorea robusta* (LN: Sal; HT: Tr; LU: Fur, fuel); *Synzigium cumini* (LN: Jamun; HT: Tr; LU: Tm, Fr); *Adena cordifolia* (LN: Hald; HT: Tr; LU: Tm); *Embllica officinalis* (LN: Amala; HT: Tr, LU: Med, Fruit); *Oroxylum indicum* (LN: Tatelo; HT: Tr; LU: Med); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Med);

## 44. Soniya Tal

Code: P7-D7-044

Toposheet no: 2880 08B

Date of inventory: June 03, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.56935707°N; Lon:80.91074244°E; Alt:152 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailali district; Trishakti-Bhajani Municipality; Ward-9; Dongpur.

Boundary

(Current: Bhajani Municipality; Ward no. 9)

Core Area: Forest in all directions.

Basin Area: Forest in all directions.

Management responsibility

Sayapatri Lake Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50°C (Jun/July); Avg. Min:17.70°C (Dec); Rainfall:1577mm/yr.(www.beautifularwestnepal.blogspot.com).

Area

Core Area:24.1 ha; Avg. Length:700 m; Avg. Width:350 m; Avg. Depth:3 m; Max-Min Surface Water Level:4 m-2 m; Basin Area:623.6 ha.

Water Volume

Peak Period: 27,818,280 ltr; Dry period: 13,909,140 ltr; Inlet: None; Outlet: None.

Water quality

Physicochemical parameter: Temp:25°C, pH:6; Transparency:0.5 m.

Soil feature

Dark color; Clay loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Typha angustifolia* (LN: Pater; EN: Broadleaf cattletail); *Nymphaea stellata* (LN: Nilkamal; EN: Blue lotus; HT: Ff; LU: Orn); *Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: none).

Major aquatic plants

Core Area: *Utricularia australia* (LN: Simghas; HT: S m; LU: None); *Oryza rufipogon* (LN: Jungalidhan; HT: E m; LU: None); *Phragmites* sps (LN: Narkat; HT; Sr; LU: Fod); *Ceratophyllum demersum* (LN: Patai; HT: S m; LU: None); *Hydrilla* sps (LN: Panijhyau; HT: Ff; LU: None).

Major plants in basin

*Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Shorea robusta* (LN: Sal; HT: Tr; LU: Fur, fuel); *Synzigium cumini* (LN: Jamun; HT: Tr; LU: Tm, Fr); *Adena cordifolia* (LN: Hald; HT: Tr; LU: Tm); *Embllica officinalis* (LN: Amala; HT: Tr, LU: Med, Fruit); *Oroxylum indicum* (LN: Tatelo; HT: Tr; LU: Med); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Med);

## 45. Sukhaiya Tal

Code: P7-D7-045

Toposheet no: 2880 07B

Date of inventory: June 03, 201



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.72967745°N; Lon:80.62170629°E; Alt:180 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailali district; Dhangadi Sub-metropolitancity.;  
Ward no. 6; Dhangadi.

(Current: Dhangadi Municipality; Ward no. 6)

Boundary

Core Area: Forest in all directions.

Basin Area: Forest in all directions.

Management responsibility

Dhangadi Lake Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50°C (Jun/July); Avg. Min:17.70°C  
(Dec); Rainfall: 1577 mm/yr.

Area

Core Area:5.9 ha; Avg. Length:110 m; Avg. Width:90 m;  
Avg. Depth:3 m; Max-Min Surface Water Level:4 m-2 m;  
Basin Area:165.5 ha

Water Volume

Peak Period: 1,124,086 ltr; Dry period: 357,664 ltr; Inlet:  
None; Outlet: None.

Water quality

Physicochemical parameter: Temp:25°C, pH:6;  
Transparency:0.3 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Utricularia australia* (LN: Simghas; HT: S m; LU: None); *Oryza rufipogon* (LN: Jungalidhan; HT: E m; LU: None); *Phragmites* sps (LN: Narkat; HT; Sr; LU: Fod); *Ceratophyllum demersum* (LN: Patai; HT: S m; LU: None); *Hydrilla* sps (LN: Panijhyau; HT: Ff; LU: None).

Major plants in basin

*Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Shorea robusta* (LN: Sal; HT: Tr; LU: Fur, fuel); *Synzigium cumini* (LN: Jamun; HT: Tr; LU: Tm, Fr); *Adena cordifolia* (LN: Haldo; HT: Tr; LU: Tm); *Embllica officinalis* (LN: Amala; HT: Tr, LU: Med, Fruit); *Oroxylum indicum* (LN: Tatelo; HT: Tr; LU: Med); *Bombax ceiba* (LN: Simal; HT: Tr; LU: Med);

Fish

*Cetanolaryngodon idella* (LN: Carp; LU: Meat); *Labeo rohita* (LN: Rohu; LU: Meat); *Hypophthalmichthys nobilis* (LN: Carp; LU: Meat)

Herpetofauna	Bungarus sps (LN: Karet; EN: Common Krait); <i>Bufo melanostictus</i> Schneider (LN: Khasre bhyaguto; EN: Black-spined toad); <i>Python morulus</i> (LN: Ajingar; EN: Python).
Birds	<i>Francolinus francolinus</i> (LN:Kalotitra; EN:Black Francolin); <i>Gallusgallus</i> (LN:Bankukhura; EN:Red Jungle fowl); <i>Passer domesticus</i> (LN:Bhagero; EN:Sparrow); <i>Corvussplendens</i> (LN:Kaag; EN: House Crow); <i>Streptopelia Chinensis</i> (LN:Dhukur; EN:Spotted Dove); <i>Dicurus macrocercus</i> (Chibe; EN:Drongo); <i>Ocyeros birostris</i> (LN:Dhanes; EN:Grey Hornbill); <i>Vanellus indicus</i> (LN:huttititau; EN:Red-watteled lapwing); <i>Falco tinnunculus</i> (LN:Baaj; EN:Common Kestrel); <i>Turdoides striata</i> (LN:Bhyakur; EN:Jungle Babbler).
Mammals	<i>Herpestes</i> sps (LN: Nyarimusa; EN: Mongoose); <i>Canis aurens</i> (LN: Syal; EN: Golden jackal); <i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: Northen palm squirrel).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium sps</i> (LN: Banmara; EN: Thoroughwort); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed); <i>Xanthium strumarium</i> (LN: Bhede kuro; EN: Cockle bur sheep bar).
Endemic plant/animal	None.
<b>C. Socio-Economy at Basin</b>	
Nearby settlement	Dhangadi Bazar; 100 m from lake; Main Trail: Dhangadi to Jakhor Tal,
Road:100 m from lake.	
Land use	Forestland (70%); Agriculture (28%); Grassland (2%).
Demography	Population: 9,304; Male: 4,474; Female: 4,830; HHs: 1,492; Ethnicity: Brahmin/Chhetri (22.97%); Janajati (70%); Dalit (6.35%); Other (0.4%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.
<b>D. Ecosystem Goods/Services</b>	
Provisional services	Fish supply.
Cultural services	None.
<b>E. Restoration/Management</b>	
Structural management	Dam, by local community.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.
<b>F. Tourism information</b>	
No visitors; No tourism potential.	
<b>G. Lake condition</b>	
Degrading.	

## 46. Sukhaliya Lake

Code: P7-D7-046

Toposheet ano: 2880 07B

Date of inventory: June 03, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.55099802°N; Lon:80.84686638°E; Alt:180 masl.  
Geographical position Mahabharat Range.

Administrative feature

FWDR; Kailali district; Godhariya Municipality; Ward-2; Karketi.

Boundary

Core Area: Forest in all directions.

Basin Area: Forest in all directions. Management responsibility Puraina Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50°C(Jun/July); Avg.Min:17.70°C(Dec);  
Rainfall:1577mm/yr.(www.beautifulfarwestnepal.blogspot.com).

Area

Core Area:10ha; Avg. Length:200 m; Avg. Width:90 m;  
Avg. Depth:4 m; Max-Min Surface Water Level:6 m-2 m;  
Basin Area:1022.8 ha.

Water Volume

Peak Period: 3,065,688 ltr; Dry period: 1,021,896 ltr; Inlet:  
None; Outlet: None.

Water quality

Physicochemical parameter: Temp.:25°C, pH:6;  
Transparency:0.4 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Oryza rufipogon* (LN: Jungalidhan; HT: E m; LU: None); *Phragmites* sps (LN: Narkat; HT; Sr; LU: Fod); *Ceratophyllum demersum* (LN: Patai; HT: S m; LU: None); *Hydrilla* sps (LN: Panijhyau; HT: Ff; LU: None)

Major plants in basin

*Shorea robusta* (LN: sal; HT: Tr; LU: Ful); *Synzigium cumini* (LN: jamun; HT:TR; LU: Tm); *Adena cordifolia* (LN: Asna; HT: Tr; LU: Tm); *Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm, Fr); *Dalbergia sisoo* (LN: Sisoo; HT: Hr; LU: Med);

Fish

None.

Herpetofauna

*Buttaphrynus melanostictus* (LN: Kalokhasre Bhyaguto; EN: Blackspined Toad); *Calotes versicolor* (LN: Cheparo; EN: Garden lizard); *Varanus bengalensis* (LN: Gohoro; EN: Monitor Lizard); *Bungarus* sps (LN: Karet; EN: Common Krait); *Naja naja* (LN: Cobra; EN: Common Cobra).



Birds	Passer domesticus (LN: Bhagero; EN: Sparrow); Corvus splendens (LN: Kaag; EN: House Crow); Streptopelia Chinensis (LN: Dhukur; EN: Spotted Dove); Ocyrceros birostris (LN: Dhanes; EN: Grey Hornbill); Coracias bengalensis (LN: Theuwa; EN: Indian Roller); Halcyon smyrnensis (LN: Matikore; EN: Kingfisher).
Mammals	Felis bengalensis (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Monkey); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat)
Invasive alien species	<i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Karketi; 100 m from lake; Main Trail: Mahendra high to Chamala road; 100 m from lake.
Land use	Forestland (70%); Agriculture (28%); Grassland (2%).
Demography	Population:22017; Male:10677; Female:11340; HHs:3828; Ethnicity: Brahmin/Chhetri (37.58%); Janajati (36.71%); Dalit (25.49%); Other (0.225%). Major Religion: Hindu (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants,
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No visitors; No hotels at lake site; No tourism potential.

### G. Lake condition

Degrading.

## 47. Sunhara Tal

Code: P7-D7-047

Toposheet no: 2880 08C and 12A

Date of inventory: July 9, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:28.53351°N; Lon:80.79826°E; Alt:137 masl. Geographical position Tarai.
Administrative feature	FWDR; Kailali district; Pawera VDC.; Ward no.3; Chhotki Paliya. (Current: Kailari Municipality; Ward no. 5)
Boundary	Core Area: Farmland in west; road to India in east; Pabera to Badki Paliya road in north and human settlement in south. Basin Area: Mohana nadi in west and south; Guldrahawa Tal in east; Chhotki paliya to Paliyaghat road in north.
Management responsibility	Jana Kalyana Higher Secondary School, Chhoti Paliya.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp:40.5oC (Jun/July); Avg. Min:17.7oC (Dec); Rainfall:1577mm/yr.(www.beautifulfarwestnepal.blogspot.com).
Area	Core Area:5 ha; Avg. Length:200 m; Avg. Width:40 m; Avg. Depth:2 m; Max-Min Surface Water Level:3-1 m; Basin Area:50 ha.
Water Volume	Peak Period: 33,000,000 ltr; Dry period: 8,250,000 ltr; Inlet: None; Outlet: None.
Water quality	Physiochemical parameter: Temp.:37.2oC, pH:9.3; DO:4.2mg/l; Transparency:0.4m.
Soil feature	Grey color; Sandy loam.
Shocks/vulnerability	Water Volume decrease.
Major aquatic plants	Core Area: None.
Major plants in basin	Bombox ceiba (LN: Simal; HT: Tr; LU: Tm); Syzygium cumini (LN: jamun; HT:TR; LU: Tm, Md); <i>Dalbergia sisoo</i> (LN: Sisoo; HT: Tr; LU: Tm); Zizyphus rugosa (LN: Rukh Bayar; HT: Tr; LU: Med); Eucalyptus alba (LN: Masala; HT: Tr; LU: Tm); Trewia nudiflora (LN: Vellor; HT: Tr; LU: Fd); Schleicheria oleosa (LN: Kusu m; HT: Tr; LU: Fd); Calotropis gigantea (LN: Ankh; HT: Tr; LU: Med).
Fish	Labeo rohita (LN: Rohu; LU: Meat), Cirrhinus mrigala (LN: Naini; LU: Meat); Clarias batrachus (LN: Mangur; LU: Meat); Catla catla (LN: Vyakur; LU: Meat); Puntios sarona (LN: Kande; LU: Meat); Puntios ticto (LN: BHITE; LU: Meat);

Herpetofauna	<p><i>Cetanolaryngodon idella</i> (LN: Grass Carp; LU: Meat);  <i>Hypophthalmichthys nobilis</i> (EN: Bighead Carp; LU: Meat);  <i>Hypophthalmichthys molitrix</i> (LN: Silver Carp; LU: Meat);  <i>Bufo melanostictus</i> (LN:Khashre Bhyaguto; EN:Black-spined Toad);  <i>Kaloula taprobanica</i> (LN:Byaguyo; EN:Srilanka Bullfrog);  <i>Euphlyctis cyanophlyctis</i> (LN:Tik-tike Paha; EN:Skitting Frog);  <i>Hoplobatrachus crassus</i> (LN:Sirke Paha; EN:Jerdon’s Bullfrog);  <i>Xenochrophis piscator</i> (LN:Pani Sarpa; EN:Chequered Keelback Watersnake);  <i>Varanus flavescens</i> (LN:Sun Gohoro; EN:Golden Monitor Lizard);  <i>Indotestudo elongata</i> (LN:Kachhuwa; EN:Yellow-headed Tortoise);  <i>Asynblepharus sikimensis</i> (LN:Chikni Girgit; EN:Sikkem Skink).</p>
Birds	<p><i>Phalacrocorax niger</i> (LN: Sano Jalewa; EN: Little Cormorent);  <i>Bulbulcus ibis</i> (LN: Bastu Bakulla; EN: Cattle Egret);  <i>Halcyon capensis</i> (LN: Thulo Matikore; EN: Strok-billed Kingfisher);  <i>Halcyon smyrnensis</i> (LN: Setokanthe Matikore; EN: White-throated Kingfisher);  <i>Metopidius indicus</i> (LN: Lama Aunle; EN: Bronze-winged Jacana);  <i>Ichthyophaga ichthyaetus</i> (LN; Machhakul; EN: Grey-headed Fisheagle);  <i>Coracias beglalensis</i> (LN: Theuwa; EN: Indian Roller).</p>
Mammals	<p><i>Lepus nigricollis</i> (LN: Ban Kharayo; EN: Indian Hare);  <i>Funambulus pennant</i> (LN: Panch Darke Lokharke; EN: Northern Palm Squirrel);  <i>Hystrix indica</i> (LN: Jure Dumsi; EN: Indian Crested Porcopine);  <i>Millardia meltada</i> (LN: Makhamali Muso; EN:Common Soft-furred Rat);  <i>Bandicota indica</i> (LN:Thulo Dhande Muso; EN:Greater Bandicot-rat);  <i>Felis chaus</i> (LN:Ban Biral; EN:Jungle Cat);  <i>Canis aureus</i> (LN:Shyal; EN; Golden Jackle);  <i>Sus scrofa</i> (LN:Bandel; EN:Wild Boar);  <i>Axis axis</i> (LN: Chital; EN:Spotted Deer).</p>
Invasive alien species	<p><i>Ipomoea carnia</i> (LN: Besara m; EN: Shrubby Morning Glory);  <i>Parthenum hysteropharus</i> (LN: Kanike Ghans; EN: Bitter Weed);  <i>Ageratum conyzoides</i> (LN: Ghande; EN: Billy Goat Weed).</p>
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Chhoti Paliya; 20m from lake; Main Trail: Dhangadi-Rampur road; 1km (Pabera Bazar to Chhoti Paliya road; 20m) from lake.
Land use	Forestland (20%); Grassland (5%); Farmland (40%); Settlement (30%); Other (5%).
Demography	Population: 5,835; Male: 2,813; Female: 3,022; HHs:980; Ethnicity: Brahmin/Chhetri (8.45%); Janajati (90.45%); Dalit (0.55%); Other (0. 55%).MajorReligion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	Tharu.
Livestock at basin	>500.
Traditional production system	Fish farming.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

**D. Ecosystem Goods/Services**

Provisional services                      None.  
Cultural services                            None.

**E. Restoration/Management**

Structural management                  None.  
Non-structural management              None.  
Conservation plan                        None.  
Monitoring plan                            None.

**F. Tourism information**

No visitors; Good hotels in Pabera Bazar; Motarable road to Chhotki Paliya; Transportation services to Pabera Bazar but private vehicles refer to the Lake from lake; Needs promotional activities.

**G. Lake condition**

Degrading.

## 48. Thongruwa Tal

Code: P7-D7-048

Toposheet no: 2880 07B

Date of inventory: June 03, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.7269556°N; Lon:80.77126001°E; Alt:175 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kailali district; Chaumala VDC.; Ward-1; Chaumala.  
(Current: Gauriganga Municipality; Ward no. 4)

Boundary

Core Area: Forest in east and south; Farmland and Kurkuriya gaun in west and north.

Basin Area: Forest in all directions.

Management responsibility

Kurkuriya lake Management Community.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:40.50°C (Jun/July); Avg. Min:17.70°C (Dec);  
Rainfall: 1577 mm/yr.  
(www.beautifulfarwestnepal.blogspot.com).

Area

Core Area:0.6ha; Avg. Length:100 m; Avg. Width:80 m;  
Avg. Depth:2 m; Max-Min Surface Water Level:3 m-1 m;  
Basin Area:48.1 ha.

Water Volume

Peak Period: 681,264 ltr; Dry period: 227,088 ltr; Inlet:  
None; Outlet: None.

Water quality

Physicochemical parameter: Temp.:24°C, pH:6;  
Transparency:0.3 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Typha angustifolia* (LN: Pater; EN: Broadleaf cattletail); *Nymphaea stellata* (LN: Nilkamal; EN: Blue lotus; HT: Ff; LU: Orn); *Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: none).

Major plants in basin

*Shorea robusta* (LN: sal; HT: Tr; LU: Ful); *Synzigium cumini* (LN: jamun; HT:TR; LU: Tm); *Adena cordifolia* (LN: Asna; HT: Tr; LU: Tm); *Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm, Fr); *Dalbergia sisoo* (LN: Sisoo; HT: Hr; LU: Med).

Fish

*Cetanoharyng odon idella* (LN: Carp; LU: Meat); *Ctenopharyngodon idella* (LN: Grass carp; LU: Meat); *Hypophthalmichthys nobilis* (EN: Bighead; LU: Meat); *Labeo rohita* (LN: Rohu; LU: Meat)

Herpetofauna

*Bufo melanostictus* (LN: Khasre bhyaguto; EN: Black-spinetoad); *Hoplobatrachus crassus* (LN: Sirke Paha; EN:

Birds	Jerdon's bull frog); <i>Varanus bengalensis</i> (LN: Bhainse; EN: Monitor lizard); <i>Polypedtes maculatus</i> (LN: Rukh Bhyaguto). <i>Casmerodius albus</i> (EN: Great Egret); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Vanellus indicus</i> (LN: Huttititau; EN: Red- watted lapwing); <i>Falco tinnunculus</i> (LN: Baaj; EN: Common Kestrel)
Mammals	<i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Macaque); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat). <i>Semnopithecus hector</i> (LN: Dedu; EN: Terai grey langur).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium</i> sp (LN: Banmara; EN: Thoroughwort)
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Kurkuriya Gaun; 100 m from lake; Main Trail: Chamala to Kurkuriya gaun road; 50 m from lake.
Land use	Forestland (20%); Farmland (60%); Settlement (20%); Others (10%).
Demography	Population: 27,586; Male: 12,729; Female: 14,857; HHs: 5,293; Ethnicity: Brahmin/Chhetri (50%); Janajati (30%); Dalit (18%); Other (2%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	Kurkuriya gaun.
Livestock at basin	>2000.
Traditional production system	Rice field, Fishery.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No visitors; No tourism potential.

### G. Lake condition

Degrading.

## Annex-63: Inventory of lakes in Kanchanpur district

### 1. Ajayan Kunda

Code: P7-D8-001

Toposheet no: 2880 06B

Date of inventory: July01, 2016



#### A. General Features

Conservation status	None.
Geographical coordination	Lat:28.73692°N; Lon:80.40904°E; Alt:165 masl. Geographical position Tarai.
Administrative feature	FWDR; Kanchanpur district; Shankarpur VDC.; Ward no.3; Kanjagaon. (Current: Laljhadi Rural Municipality; Ward no. 2)
Boundary	Core Area: Kanjagaon to Kasawa Trail in north and south; Farmland in east and west. Basin Area: Kharrakhola in north; Dodanadi in west; Kanjagau road in south and Kanjagau community forest in east.
Management responsibility	Shankarpur VDC.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec); Rainfall:1422.7mm/yr. ( <a href="http://www.beautifulfarwestnepal.blogspot.com">www.beautifulfarwestnepal.blogspot.com</a> ).
Area	Core Area:1.9024ha; Avg. Length:190 m; Avg. Width:20 m; Avg. Depth:2 m; Max-Min Surface Water Level:3-1 m; Basin Area:100ha.
Water Volume	Peak Period: 11,400,000ltr; Dry period: 1,500,000 ltr; Inlet: None; Outlet: None.
Water quality	Physiochemical parameter: Temp:28.5°C, pH:8.2; DO:5.2mg/l; Transparency:0.4 m.
Soil feature	Grey color; Sandy Clay loam.
Shocks/vulnerability	WaterVolume decrease.
Major aquatic plants	Core Area: None.
Major plants in basin	Saccharumspontanum (LN: Kans; HT: Grass; LU: Fd); Imperatacylindrica (LN: Siru; HT: Grass; LU: Fd); Eucalyptus alba (LN: Masala; HT: Tr; LU: Tm); Zizyphusrugosa (LN: Rukh Bayar; HT: Tr; LU: Med, Fruit); Bombaxceiba (LN: Simal; HT: Tr; LU: Tm).
Fish	Clariasbatrachus (LN: Mangur; LU: Meat); Labeorohita (LN: Rohu; LU: Meat), Cirrhinusmrigala (LN: Naini; LU: Meat);

Herpetofauna	Catlacatla (LN: Vyakur; LU: Meat); Puntiossarona (LN: Kande; LU: Meat); Puntiostricto (LN: Bhite; LU: Meat). Microhyalaoranata (LN:Byang; EN:Oranate Rice Frog); Bufostomaticus (LN:KhatkhyarriMagoba; EN:Assam Toad); Kaloulataprobanica (LN:Byaguyo; EN:Srilanka Bullfrog); Euphlyctiscyanophlyctis (LN:Tik- tike Paha; EN:Skitting Frog); Pangshuratactum (LN:Kachhuwa; EN:Indian Roofed Turtle); Sphaerothecabreviceps (LN:RaneBhyaguto; EN:Indian Burrowing Frog); Melanochelystrijuga (LN:Kachhuwa; EN; Eastern Black Turtle); Xenochrophispiscator (LN:PaniSarpa; EN:ChequeredKeelbackWatersnake); Amphiesma stolatum (LN:Harara; EN:Buff-stripped Keelback).
Birds	Metopidiusindicus (LN: Lama Aunle; EN: Bronze-winged Jacana); Haliaeetusleucoryphus (LN: BoksiCheel; EN: Pallas's Fish Eagle); Cerylerudis (LN: ChhirbireMatikore; EN: Pied Kingfisher); Amaurornisphoenicurus (LN: SimKukhura; EN: White-breasted Waterhen); Bubulcus ibis (LN: BastuBakulla; EN: Cattle Egreat); Halcyon capensis (LN: ThuloMatikore; EN: Strok-billed Kingfisher); Pavocristatus (LN: Majur; EN: Indian Peafowl); Gallus gallus (LN: Luiche; EN: Red Jungle Fowl).
Mammals	Lepusnigricollis (LN:Ban Kharayo; EN:Indian Hare); Funambulus pennant (LN:PanchDarkeLokharke; EN:Northern Palm Squirrel); Millardiameltada (LN:MakhamaliMusso; EN:Common Soft-furred Rat); Bandicotaindica (LN:ThuloDhandeMusso; EN:Greater Bandicot- rat); Hystrixindica (LN:Jure Dumsi, EN:Indian Crested Porcupine) Felisbengalensis (LN:Chari Bagh; EN:Leopard Cat); Canisaureus (LN:Shyal; EN; Golden Jackle); Macacamulatta (LN:Rato Bandar; EN:Rhesus Monkey); Boselaphustragocamelus (LN:Nil Gai; EN:Blue Bull); Axis axis (LN: Chital; EN:Spotted Deer); <i>Sus scrofa</i> (LN:Bandel; EN:Wild Boar).
Invasive alien species	<i>Ipomoea carnea</i> (LN: Besara m; EN: Shrubby Morning Glory).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Kasawagaon; 50m from lake; Main Trail: Kanjagaon to Kasawa trail;100m from lake.
Land use	Forestland (20%); Agriculture (60%); Settlement (15%); Others (5%).
Demography	Population:7251; Male:3549; Female:3702; HHs: 1,065; Ethnicity: Brahmin/Chhetri (5.92%); Janajati (91.67%); Dalit (1.83%); Other (0.58%). Major Religion: Hinduism (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community Tharu. Livestock at basin >1000.
Traditional production system	Irrigation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.



#### **D. Ecosystem Goods/Services**

Provisional services                      None.  
Cultural services                            None.

#### **E. Restoration/Management**

Structural management                    None.  
Non-structural management                None.  
Conservation plan                          None.  
Monitoring plan                             None.

#### **F. Tourism information**

No visitors; Few good hotels in Belauri Bazar; Motarable road to BelauriBaza and Belauri Bazar to Dhangadi; Transportation services from Mahendrangar to Belauri Bazar or Dhangadi to Belauri Bazar; Needs promotional activities.

#### **G. Lake condition**

Degrading.

## 2. Ajingar Lake

Code: P7-D8-002

Toposheet no: 2980 14D

Date of inventory: May 23, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.92343127°N; Lon:80.38561158°E; Alt:223 masl.  
Geographical position Terai Range.

Administrative feature

FWDR; Kanchanpur district; Daijee VDC; Ward no. 9; Jhalari Municipality; Sisaiya.

Boundary

(Current: Shuklaphanta Municipality; Ward no. 8)

Core Area: Forest in all directions. Basin Area: Forest in all directions.

Management responsibility

Sisaiya Conservation Committee with the representation of DDC. Wetlands type Fresh water/natural; Lacustrine; Seasonal.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec);  
Rainfall:1422.7mm/yr.

([www.beautifulfarwestnepal.blogspot.com](http://www.beautifulfarwestnepal.blogspot.com)).

Area

Core Area:0.7 ha; Avg. Length:150 m; Avg. Width:65 m;  
Avg. Depth:5 m; Max-Min Surface Water Level:2-3 m; Basin  
Area:11.4 ha.

Water Volume

NA.

Water quality

Physicochemical parameter: Temp:24°C; pH:6.0;  
Transparency:0.5 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Typha angustifolia* (LN: Pater; HT: Hr; LU: None)  
*Nymphaea stellata* (LN: Nilkamal; EN: Blue lotus, HT: Ff; LU:  
Orn); *Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU:  
None).

Major plants in basin

*Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm, Med);  
*Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Shorea robusta*  
(LN: Sal; HT: Tr; LU: Fur, fuel); *Synzigium cumini* (LN:  
Jamun; HT: Tr; LU: Tm, Fr); *Adena cordifolia* (LN: Haldo;  
HT: Tr; LU: Tm); *Embllica officinalis* (LN: Amala; HT: Tr, LU:  
Med, Fruit).

Fish

None

Herpetofauna	<i>Bufo melanostictus</i> (LN: Khasre bhyaguto; EN: Black-spined toad); <i>Calotes versicolor</i> (LN: Cheparo; EN: Garden Lizard); <i>Ptyas mucosa</i> (LN: Dhaman; EN: Ratsnake).
Birds	<i>Casmerodius albus</i> (EN: Great Egret; EN: Thulose to Bakulla); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Vanellus indicus</i> (LN: Huttititau; EN: Red-wattled lapwing); <i>Falco tinnunculus</i> (LN: Baaj; EN: Common Kestrel);
Mammals	<i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Monkey); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: Squirrel);
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium</i> spp (LN: Banmara; EN: Thoroughwort), <i>Parthenium hysterophorus</i> (LN: Gajar jhar; EN: Famine weed).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Sisaiya; 1km from lake; Main Trail: Kaluwapur-Sisaiya road; 1km from lake to the main trail.
Land use	Forestland (99%); Shrubland (1%).
Demography	Population: 24,347; Male: 11,407; Female: 12,940; HHs: 4,782; Ethnicity: Brahmin/Chhetri (51.56%); Janajati (38.4%); Dalit (5%); Other (5%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

>200 visitors/yr; No hotels at the lake site; Few hotels in Sisaya; No tourism potential.

### G. Lake condition

Degrading.

### 3. Baijyanath Tal

Code: P7-D8-003  
Toposheet no:NA  
Date of inventory: June 30, 2016



#### A. General Feature

Conservation status	None.
Geographical coordination	Lat:28.86450°N; Lon:80.42421°E; Alt:190 masl.
Geographical position	Tarai.
Administrative feature	FWDR; Kanchanpur district; Bani Municipality; Ward no. 2; Krishnapuri.
Boundary	(Current: Krishnapur Municipality; Ward no. 2) Core Area: Farmland in south, forest in all directions. Basin Area: Paddy field in east and forest in other directions.
Management responsibility	Galabari Community Forest.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature	Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5 oC (Dec); Rainfall: 1422.7mm/yr.
Area	Core Area:0.9936 ha; Avg. Length:80 m; Avg. Width:40 m; Avg. Depth:1.5 m; Max-Min Surface Water Level:2-1 m; Basin Area:20 ha.
Water Volume	Peak Period: 6,400,000 ltr; Dry period: 325,000 ltr; Inlet: None; Outlet: None.
Water quality	Physiochemical parameter: Temp.: 30.1°C, pH: 8.3; DO: 3.6; Transparency:0.3 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	Water Hycianth.
Major aquatic plants	Core Area: <i>Nymphaea stellata</i> (LN: Nilkamal; EN: Blue lotus; HT: Ff; LU: Orn); <i>Nelumbonucifera</i> (LN: Kamal; HT: Ff; LU: none).
Major plants in basin	<i>Shorea robusta</i> (LN: sal; HT: Tr; LU: Tml); <i>Syzygium cumini</i> (LN: jamun; HT:TR; LU: Tm, Md); <i>Terminalialaalata</i> (LN: Asna; HT: Tr; LU: Tm); <i>Mallotusphilippensis</i> (LN: Sindhure; HT: Hr; LU: Fd); <i>Osbeckia stellate</i> (LN: Asare; HT: Sh, LU: Md, Leaf); <i>Toonaciliata</i> (LN: Tooni; HT: Tr; LU: Tm); <i>Imperatacylindrica</i> (LN: Siru; HT: Grass; LU: Fd); <i>Thysanolaena maxima</i> (LN: Amriso; HT: Grass; LU: Fd).
Fish	<i>Cetanoharyngodonidella</i> (LN: Grass Carp; LU: Meat); <i>Labeorohita</i> (LN: Rohu; LU: Meat); <i>Hypophthalmichthysnobilis</i> (EN: Bighead Carp; LU: Meat);

Herpetofauna	Hypophthalmichthys molitrix (LN: Silver Carp; LU: Meat); Cirrhinus mrigala (LN: Naini; LU: Meat). Bufo melanostictus (LN: Khashre Bhyaguto; EN: Black-spined Toad); Bufo stomaticus (LN: Khatkhyarri Magoba; EN: Assam Toad); Euphlyctis cyanophlyctis (LN: Tik-tike Paha; EN: Skittering Frog); Limnonectes teraiensis (LN: Tik-tike Paha; EN: Nepalese Terai Frog); Sphaerothecabreviceps (LN: Rani Byaguyo; EN: Indian Burrowing Frog) Hardellathurjii (LN: Kachhuwa; EN: Eastern Crowned River Turtle); Pangshurapectum (LN: Kachhuwa; EN: Indian Roofed Turtle); Chitra indica (LN: Badahar; EN: Narrow-headed Softshell Turtle); Rhamphotyphlops braminus (LN: Teliya Sanp; EN: Common Blind Snake); Enhydrysenhydris (LN: Pani Sarpa; EN: Common Smooth Water snake); <i>Varanus bengalensis</i> (LN: Bhainse Gohoro; EN: Bengal Monitor Lizard); <i>Varanus flavescens</i> (LN: Sun Gohoro; EN: Golden Monitor Lizard).
Birds	Dendrocygna javanica (LN: Silsile; EN: Lesser Whistling-duck); Amaurornis phoenicurus (LN: Sim Kukhura; EN: White-breasted Waterhen); Metopidius indicus (LN: Lama Aunle; EN: Bronze-winged Jacana); Phalacrocorax niger (LN: Sano Jalewa; EN: Little Cormorant); Bubulcus ibis (EN: Bastu Bakulla; EN: Cattle Egret); Anthracoceros albirostris (LN: Kalo Dhanesh; EN: Oriental Pied Hornbill); Mulleripicus pulverulentus (LN: Raj Lahache; EN: Great Slaty Wood pecker); Grus antigone (LN: Sarus; EN: Sarus Crane); Pavocristatus (LN: Majur; EN: Indian Peafowl).
Mammals	Lepus nigricollis (LN: Ban Kharayo; EN: Indian Hare); Hystrix brachyuran (LN: Malaya Dhumsi; EN: Malayan Porcupine); Felis bengalensis (LN: Chari Bagh; EN: Leopard Cat); Patherapardus (LN: Chituwa; EN: Common Leopard); Panthera tigris (LN: Pate Bagh; EN: Bengal Tiger); Canis aureus (LN: Shyal; EN: Golden Jackle); Macaca mulatta (LN: Rato Bandar; EN: Rhesus Monkey); Axis axis (LN: Chital; EN: Spotted Deer); <i>Sus scrofa</i> (LN: Bandel; EN: Eurasian Wild Boar); Boselaphus tragocamelus (LN: Nil Gai; EN: Blue Bull).
Invasive alien species	<i>Ipomoea carnea</i> (LN: Besara m; EN: Shrubby Morning Glory).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Bani Gaon; 20 from lake; Main Trail: Bani Bazar to Baijyanath trail; 10m from lake.
Land use	Forestland (60%); Agriculture (20%); Settlement (10%); Others (10%).
Demography	Population: 36,706; Male: 17,552; Female: 32.39; Ethnicity: Brahmin/Chhetri (53.92%); Janajati (32.39%); Dalit (13.32%); Other (0.37%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	Restriction for livestock.
Traditional production system	Fish farming.
Traditional water use practices	Irrigation.

Cultural record  
Genesis/origin of lake

Baijyanath Temple.  
None.

**D. Ecosystem Goods/Services**

Provisional services  
Cultural services

Fish, Irrigation in Rainy season.  
Aesthetic/Religious.

**E. Restoration/Management**

Structural management  
Non-structural management  
Conservation plan  
Monitoring plan

None.  
Restriction for Livestocks.  
None.  
None.

**F. Tourism information**

<500 visitors; Few good hotels in Bani Bazar which is 100m from lake. Lake is very close to the Mahendra Highway; Transportation services from Attariya to Mahendranganar at any time; Needs promotional activities.

**G. Lake condition**

Degrading.

## 4. Banda Lake

Code: P7-D8-004

Toposheet no:2880 06B

Date of inventory: May 27, 2016



### A. General Feature

Conservation status

None.

Geographical coordinates

Lat:28.65707978°N; Lon:80.35815846°E; Alt:154 masl.  
Geographical position Terai Range.

Administrative feature

FWDR; Kanchanpur district; Belauri Municipality; Ward no. 1, 2 & 4; Bhaissouri Gaun.

(Current: Belauri Municipality; Ward no. 6)

Boundary

Core Area: Agricultural land in east and west direction, Nursery in South and Road in North direction.

Basin Area: Forest in all directions.

Management responsibility

Bhaissouri Conservation Committee with the representation of DDC. Wetlands type Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec);  
Rainfall: 1422.7mm/yr.

Area

Core Area:21ha; Avg. Length:2000 m; Avg. Width:1500 m;  
Avg. Depth:8.5 m; Max-Min Surface Water Level:2-3 m;  
Basin Area:78.1 ha.

Water Volume

NA.

Water quality

Physicochemical parameter: Temp.:24°C, pH:5.7;  
Transparency:0.5 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Typha angustifolia* (LN: Pater; HT: Hr; LU: None)  
*Nymphaea stellata* (LN: Nilkamal; HT: Ff; LU: Orn);  
*Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: None).

Major plants in basin

*Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm, Med);  
*Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Shorea robusta*  
(LN: Sal; HT: Tr; LU: Fur, fuel); *Synzigium cumini* (LN:  
Jamun; HT: Tr; LU: Tm, Fr); *Adena cordifolia* (LN: Asna; HT:  
Tr; LU: Tm).

Fish

*Cetanolaryngodon idella* (LN: Carp; LU: Meat); *Labeo rohita*  
(LN: Rohu; LU: Meat); *Hypophthalmichthys nobilis* (LN:  
Carp; LU: meat)

Herpetofauna

*Bufo melanostictus* (LN: Khasre bhyaguto; EN: Black-spined  
toad); *Calotes versicolor* (LN: Cheparo; EN: Garden Lizard);

Birds	Python morulus (LN: Ajingar; EN: Asiatic Rock Python); Ptyas mucosa (LN: Dhaman; EN: Ratsnake). <i>Casmerodius albus</i> (EN: Great Egret; EN: Thulo seto Bakulla); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Vanellus indicus</i> (LN: Huttititau; EN: Red-wattled lapwing); <i>Falco tinnunculus</i> (LN: Baaj; EN: Common Kestrel); <i>Treron pompadora</i> (LN: Haleso; EN: Pompadour Green Pigeon); <i>Turdoides striata</i> (LN: Bhyakur; EN: Jungle Babbler).
Mammals	<i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Monkey); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: Squirrel); <i>Vulpes bengalensis</i> (LN: Fushre fauro; EN: Bengal Fox) <i>Semnopithecus hector</i> (LN: Dedu; EN: Terai grey langur).
Invasive alien species	<i>Mikania micrantha</i> (LN: Lahare Banmara; EN: Bitter Vine); <i>Eupatorium sps</i> (LN: Banmara; EN: Thoroughwort).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Bhaisouri Gaun; 1km from lake; Main Trail: Puspalal Basti-Khiriya- Bhaisouri; 1km from lake.
Land use	Agriculture (100%).
Demography	Population: 13,707; Male: 6,461; Female: 7,266; HHs: 2,175; Ethnicity: Brahmin/Chhetri (31.04%); Janajati (58.96%); Dalit (5%) Other (5%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	Traditional farming including aromatic & medicinal plant.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	Aesthetic; Religious; Educational.

### E. Restoration/Management

Structural management	None.
Non-structural management	Informal restriction.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

>3,000 visitors/yr; No hotels at lake site; Moderate tourism potential. Needs promotional activities.

### G. Lake condition

Degrading.



## 5. Bantaria Tal

Code: P7-D8-005

Toposheet no: 2880 06B

Date of inventory: June 31, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.72008°N; Lon:80.38425°E; Alt:230 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kanchanpur district; Belluri Municipality; Ward no. 2; Shreepur.

Boundary

(Current: Belauri Municipality; Ward no. 5)

Core Area: Forest in the west, Farmland in the east and north and road in south.

Basin Area: Kaluwapur to Belauri Bazar road in west, Bantaria forest in east, Mainagaon to Bakunda road in south and north.

Management responsibility

None.

Wetlands type

Fresh water/natural; Lacustrine; Temporary.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec);  
Rainfall:1422.7ml/yr.

Area

Core Area:6 ha; Avg. Length:200 m; Avg. Width:60 m; Avg. Depth:1.5 m; Max-Min Surface Water Level:2.8 m-0.2 m; Basin Area:60 ha.

Water Volume

Peak Period: 33,600,000 ltr; Dry period: 300,000 ltr; Inlet: None; Outlet: None.

Water quality

Physiochemical parameter: Temp.:28.4°C, pH:7.6; DO:3.8; Transparency:0.4 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water Hycianth.

Major aquatic plants

Core Area: None.

Major plants in basin

*Shorea robusta* (LN: sal; HT: Tr; LU: Tml); *Syzygium cumini* (LN: jamun; HT:TR; LU: Tm, Md); *Terminalia alata* (LN: Asna; HT: Tr; LU: Tm); *Mallotus philippensis* (LN: Sindhure; HT: Hr; LU: Fd); *Trewia nudiflora* (LN: Vellor; HT: Tr; LU: Fd).

Fish

*Cetanotharyngodon idella* (LN: Grass Carp; LU: Meat); *Labeo rohita* (LN: Rohu; LU: Meat); *Hypophthalmichthys nobilis* (EN: Bighead Carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver Carp; LU: Meat); *Cirrhinus mrigala* (LN: Naini; LU: Meat), *Catla catla* (LN: Vyakur; LU: Meat).

Herpetofauna	Bufo stomaticus (LN:Khatkhyarri Magoba; EN:Assam Toad); Kaloula taprobanica (LN:Byaguyo; EN:Srilanka Bullfrog); Euphlyctis cyanophlyctis (LN:Tik-tike Paha; EN:Skittering Frog); Melanochelys trijuga (LN:Kachhuwa; EN; Eastern Blace Turtle); Aspideretes gangeticus (LN:Kataiya; EN:Indian Soft Shell); Python molurus (LN:Ajinger; EN:Burmese Rock Python); Amphiesma stolatum (LN:Harara; EN:Buff-srtiped Keelback); Xenochrophis piscator (LN:Pani Sarpa; EN:Chequered Keelback Watersnake); Naja naja (LN:Goban Sarpa; EN:Spectacled Cobra).
Birds	Phalacrocorax niger (LN:Sano Jalewa; EN:Little Cormorent); <i>Casmerodius albus</i> (EN:Thulo Seto Bakull; EN:Great Egret); Ciconia episcopus (LN:Lovipapi Garud; EN:Wooly-necked Stork); Pavo cristatus (LN:Majur; EN:Indian Peafowl); Gallus gallus ( LN:Luiche; EN:Red Jungle Fowl); Bubulcus ibis (LN:Bastu Bakulla; EN:Cattle Egret); Halcyon smyrnensis (LN:Setokanthe Matekore; EN:White- throated Kingfisher); Ceryle rudis (LN:Chirbire Matikore; EN:Pied Kingfisher); Pernisptilorhyncus (LN:Madhuwa; EN:OrientAl Honey Buzzard); Sturlus contra (LN:Dangre Sarau; EN:Asian Pied Starling).
Mammals	Lepus nigricollis (LN: Ban Kharayo; EN: Indian Hare); <i>Felis chaus</i> (LN: Ban Biralalo; EN: Jungle Cat); Felis bengalensis (LN: Chari Bagh; EN: Leopard Cat); Canis aureus (LN: Shyal; EN; Golden Jackle); <i>Macaca mulatta</i> (LN: Rato Bandar; EN: Rhesus Monkey); <i>Sus scrofa</i> (LN: Bandel; EN: Eurasian Wild Boar); Funambulus pennant (LN: Panchdharke Lokharke; EN: Northern Palm Squirrel).
Invasive alien species	Ipomoea cornia (LN: Besara m; EN: Shrubby Morning Glory); Ageratum conizoides (LN: Gandhe; EN: Billy Goat Weed).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Maina Gaon; 50m from lake; Main Trail: Kaluwapur to Belauri Bazarroad; 50m from lake.
Land use	Forestland (30%); Grassland (5%) Agriculture (50%); Settlement (10%); Others (5%).
Demography	Population: 21,387; Male: 10,223; Female: 11,164; HHs: 3,554; Ethnicity: Brahmin/Chhetri (29.49%); Janajati (65.89%); Dalit (3.70%); Other (0. 92%).MajorReligion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	Tharu Community.
Livestock at basin	>1000.
Traditional production system	Fish farming, Irrigation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fish, Irrigation.
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Cultural services None.

### **E. Restoration/Management**

Structural management None.

Non-structural management None

Conservation plan None.

Monitoring plan None.

### **F. Tourism information**

>300 visitors/year; Few good hotels in Belauri Bazar which is 3km from lake; Motarable road to Maina Gaon; Transportation services from Mahendrangar to Belauri Bazar; Needs promotional activities.

### **G. Lake condition**

Degrading.

## 6. Betkot Lake

Code: P7-D8-006

Toposheet no: 2980 14C

Date of inventory: May 24, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat: 29.024034209°N; Lon: 80.904504798°E; Alt:151 masl.  
Geographical position Terai.

Administrative feature

FWDR; Kanchanpur district; Daijee V.D. Cs; Ward no. 2;  
Betkot.

Boundary

(Current: Badikedar Municipality; Ward no. 4)

Basin Area: Forest in all directions.

Core Area: Forest in all directions.

Management responsibility

Betkot Conservation Committee with the representation of  
DDC. Wetlands type Fresh water/natural; Lacustrine;  
Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec);  
Rainfall:1422.7mm/yr.

Area

Core Area:5 ha; Avg. Length:200 m; Avg. Width:150 m;  
Avg. Depth:5 m; Max-Min Surface Water Level: NA.; Basin  
Area:35.5ha.

Water Volume

NA.

Water quality

Physicochemical parameter: Temp:24°C, pH:6; Electric  
conductivity: N.A; Transparency:0.5 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Typha angustifolia* (LN: Pater; HT: Hr; LU: Nonel)  
*Nymphaeastellata* (LN: Nilkamal; HT: Ff; LU: Orn);  
*Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: None).

Major plants in basin

*Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm, Med);  
*Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Shorea robusta*  
(LN: Sal; HT, fuel); *Adena cordifolia* (LN: Haldo; HT: Tr; LU:  
Tm); *Synzigium cumini* (LN: Jamun; HT: Tr; LU: Tm, Fr);  
*Bombax ceiba* (LN: Simal; HT: Tr; LU: Med); *Embllica  
officinalis* (LN: Amala; HT: Tr, LU: Med, Fruit); *Oroxylum  
indicum* (LN: Tatelo; HT: Tr; LU: Med) ;); *Butea  
monospermea* (LN: Palash; HT: Tr; LU: Tm, Rel).

Fish

*Cetanoaharyngodon idella* (LN: Carp; LU: Meat); *Labeo rohita*  
(LN: Rohu; LU: Meat).

Herpetofauna

*Calotes versicolor* (LN: Cheparo; EN: Garden Lizard); *Ptyas  
mucosa* (LN: Dhaman; EN: Rat snake); *Hoplobatrachus  
crassus* (LN: Sirke Paha; EN: Jerdon's bull frog); *Amolops  
marmoratus* (LN: Tite Paha); *Varanus bengalensis* (LN:

	Bhainse; EN: Monitor lizard); <i>Polypedtes maculates</i> (LN: Rukh Bhyaguto; EN: Common Indian tree frog); Python morulus (LN: Ajingar; EN: Asiatic Rock Python).
Birds	<i>Casmerodius albus</i> (EN: Great Egret; EN: Thulose to Bakulla); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Vanellusindicus</i> (LN: Huttititau; EN: Red-wattled lapwing); <i>Falcotinnunculus</i> (LN: Baaj; EN: Common Kestrel); <i>Treron pompadora</i> (LN: Haleso; EN: Pompadour Green Pigeon); <i>Turdoides striata</i> (LN: Bhyakur; EN: Jungle Babbler).
Mammals	<i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Monkey); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: Squirrel).
Invasive alien species	<i>Mikaniamicrantha</i> (LN: Lahare Banmara; EN: Bitter Vien); <i>Eupatorium sps</i> (LN: Banmara; EN: Thorughwort); <i>Ageratum conyzoides</i> (LN: Nilo gande; EN: Cheek weed); <i>Casia tora</i> (LN: Kose; EN: Sickle pod).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Chhela Gaun; 5 km from lake; Main Trail: Daiji-Chhela-Betkot- Dadeldhura; 5km from lake to the main trail.
Land use	Forestland (95%); Agriculture (4%); Others (1%).
Demography	Population: 27,481; Male: 12,985; Female: 14,496; HHs: 5,091; Ethnicity: Brahmin/Chhetri (51.57%); Janajati (38.43%); Dalit (5%); Other (5%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None.
Traditional production system	None
Traditional water use practices	Religious/ritual pond.
Cultural record	Religious site; Baijanath Temple; Fair at Magh Sukla Dashami.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	Aesthetic; Religious; Educational.

### E. Restoration/Management

Structural management	
Non-structural management	Wall around lake.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

>2,000 visitors/yr; road close to Lake; No tourism potential.

### G. Lake condition

Degrading.

## 7. Copre Tal

Code: P7-D8-007  
Toposheet no: 2980 14C  
Date of inventory: June 28, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:29.03158°N; Lon:80.28837°E; Alt:621 masl. Geographical position Churiya Hills.
Administrative feature	FWDR; Kanchanpurdistrict; Betkotmunicipality; Ward no. 4; Bagun.
Boundary	(Current: Bedkot Municipality; Ward no. 4) Core Area: Forest in all directions. Basin Area: Baitada to Saisaun trail in west; Chullu Gad in east; Churiya hill with dense forest in north; Chullu Gad in south.
Management responsibility	None.
Wetlands type	Fresh water/natural; Lacustrine; Seasonal.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec); Rainfall:1422.7ml /yr.
Area	Core Area:0.9335 ha (Measured by GPS Etrex10); Avg. Length:90 m; Avg. Width:50 m; Avg. Depth:1.5 m; Max- Min Surface Water Level:2-1 m; Basin Area:90 ha.
Water Volume	Peak Period: 9,000,000ltr; Dry period: No water; Inlet: None; Outlet: None. Water quality Physicchemical parameter: Temp.:27.8°C, pH:7.5; DO:5.53mg/l, Transparency:0.2m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: Syzygiumcumini(LN:jamun; HT:TR; LU:Tm, Md); Terminalialata (LN:Asna; HT:Tr; LU:Tm); Semecarpusanacardium (LN:Bhalayo; HT:Sh; LU:Me); Mallotusphilippensis (LN:Sindhure; HT:Hr; LU:Fd); Artemisia vulgaris(LN:Titepati; HT:Sh, LU:Md, Leaf); Dioscoreabulbifera (LN:Gittha; HT:Cl; LU:Fd, fruit); Cassia fistula (LN:Rajbriksha; HT:Tr; LU:Med, pod); Bauhinia vahlii (LN:Bhorla; HT:Cl, LU:Bed.); Urticadioica (LN:Sinu; HT:Herb; LU:Med, leaf); Ceropegiamacrantha (LN:Ban Simi; HT:Cl m; LU:Fd); Woodfordiafruticosa (LN:Dhaiyaro; HT:Sh; LU:Bed); Trewianudiflora (LN:Vellor; HT:Tr; LU:Fd).
Fish	None.

Herpetofauna	Hoplobatrachustigerinus (LN: Sirke Paha; EN: Tiger Frog); Bufomelanostictus (LN: KhasreBhyaguto; EN: Black-spined toad); Sphaerothecabreviceps (LN: Rani Bhyaguto; EN: Toad); Indian Burrowing Frog); Asymblepharus sikimmensis (LN: ChikneGirgit; EN: Sikkim Skink); <i>Varanus bengalensis</i> (LN: Bhainse; EN: Monitor lizard); Amphiesmastolapum (LN: Harara; EN; Checkered Keelback).
Birds	Metopidiusindicus (LN:Lama Aunle; EN:Bronze-winged Jacana); Gallus gallus (LN:Ban Kukhura; EN:Red Junglfowl); Lophura leucomelanos (LN:Kalij; EN:Kalij Pheasant); Celeusbrachyurus (LN:Sano Tame Lahache; EN:Rufous Woodpecker); Picusflavinucha (LN:ThuloSunjureKathfore; EN:Greater Yellownape); Cuculusmicropterus (LN:Kafal Chari; EN:Indian Cuckoo); Spilornischeela (LN:Kakakul; EN:Crested Serpent Eagle); Urocissaerythrorhyncha (LN:ShyalkothariLampuchhre; EN:Red-billed Blue Magpie); Bendrocittavagabunda (LN:Kokale; EN; RofousTreepie).
Mammals	Lepusnigricollis (LN: Ban Kharayo; EN: Indian Hare); Petauristapetaurista (LN: Rato Ragpankhi Lokharke; EN: Red Giant Flying Squirrel); Felisbengalensis (LN: Charibagh; EN: Leopard Cat); Macacamulatta (LN: Bandar; EN: Rhesus Macaque); Felischaus (LN: Ban Biralo; EN: Jungle Cat); Canisaureus (LN: Shyal; EN: GoldenJackle;); <i>Sus scrofa</i> (LN: Bandel; EN: Wild Boar).
Invasive alien species	Ageratinaadenophora (LN: KaloBanmara; EN: Crofton weed).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Bagun; 3km from lake; Main Trail: Bagun to Shivalinga; 2km from lake. Land use Forestland (80%); Grassland (10%); Others (10%).
Demography	Population: 27,481; Male: 12,895; Female: 14,496; HHs: 5,091; Ethnicity: Brahmin/Chhetri (57.72%); Janajati (21.85%); Dalit (19.41%); Other (1.02%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>200.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants, Timber.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.

Monitoring plan

None.

**F. Tourism information**

No visitors; Few good hotels in the way (Chhela, Betkot);  
Motorable road to Shivalinga; Needs promotional activities.

**G. Lake condition**

Degrading.



## 8. Gangla Tal

Code: P7-D8-008

Toposheet no: 2880 06B

Date of inventory: July01, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:28.69873°N; Lon:80.40401°E; Alt:162 masl. Geographical position Tarai.
Administrative feature	FWDR; Kanchanpur district; PunarbasMunicipality; Ward no.9; Dhakka. (Current: Punarbas Municipality; Ward no. 1)
Boundary	Core Area: Paddy field in all directions. Basin Area: Dhakka to Bhakunda trail in east; Sugarcane farmland in weat; Belauri to Dhangadi road in south; Dhakka to Motipur trail in north.
Management responsibility	Shree JanasewaKrishiSahakariSastha Limited.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec); Rainfall:1422.7mm/yr.
Area	Core Area:1.9115 ha; Avg. Length:70 m; Avg. Width:60 m; Avg. Depth:1.5 m; Max-Min Surface Water Level:2-1 m; Basin Area:50ha.
Water Volume	Peak Period: 8,400,000ltr; Dry period: 1,200,000ltr; Inlet: None; Outlet: None.
Water quality	Physiochemical parameter: Temp:26.8°C, pH:8.1 Transparency:0.3 m.
Soil feature	Red color; Clay loam.
Shocks/vulnerability	Water volume decrease.
Major aquatic plants	Core Area: None.
Major plants in basin	Dalbergiasisoo (LN: Sisoo; HT: Tr; LU: Tm); Saccharumspontanum (LN: Kans; HT: Grass; LU: Fd); Saccharumbengalensis (LN: Worila; HT: Grass, LU: Fd); Imperatacylindrica (LN: Siru; HT: Grass; LU: Fd); Meliaazedarach (LN: Bhakenu; HT: Tr; LU: Fd); Eucalyptus alba (LN: Masala; HT: Tr; LU: Tm); Zizyphusrugosa (LN: Rukh Bayar; HT: Tr; LU: Med, Fruit), Calotropis gigantean (LN: Anka; Tr: Shrub; LU: Med).
Fish	Cetanoharyngodonidella (LN: Grass Carp; LU: Meat); Hypophthalmichthysnobilis (EN: Bighead Carp; LU: Meat); Labeorohita (LN: Rohu; LU: Meat);

	Hypophthalmichthysmolitrix (LN: Silver Carp; LU: Meat); Cirrhinusmrigala (LN: Naini; LU: Meat).
Herpetofauna	Kaloulataprobatica (LN: Byaguyo; EN: Srilanka Bullfrog); Euphlyctiscyanophlyctis (LN: Tik-tike Paha; EN: Skittring Frog); Naja naja (LN: Kachhuwa; EN; Indian Roofed Turtle); Boigaforsteni (LN: Lohagin; EN: Forsten's Cat Snake); Amphiesma stolatum (LN: Harara; EN: Buff-stripped Keelback); Enhydrisenhydris (LN: PaniSarpa; EN: Common Smooth Watersnake).
Birds	Metopidiusindicus (LN: Lama Aunle; EN: Bronze-winged Jacana); Phalacrocoraxniger (LN: Sano Jalewa; EN: Little Cormorent); Halcyon capensis (LN: ThuloMatikore; EN: Strok-billed Kingfisher); Bubulcus ibis (LN: BastuBakulla; EN: Cattle Egret); Mesophoyxintermedia (LN: MajhauaSetoBakulla; EN: Inermediate Egret); Centropussimensis (LN: DhodeGokul; EN: Greater Coucal); Pavocristatus (LN: Majur; EN: Indian Peafowl); Gallus gallus (LN: Luiche; EN: Red Jungle Fowl).
Mammals	Lepusnigricollis (LN: Ban Kharayo; EN: Indian Hare); Funambulus pennant (LN: PanchDarkeLokharke; EN: Northern Palm Squirrel); Millardiameltada (LN: MakhamaliMuso; EN: Common Soft-furred Rat); Bandicotaindica (LN: ThuloDhandeMuso; EN: Greater Bandicot- rat); Hystrixindica (LN: Jure Dumsi, EN: Indian Crested Porcupine) Canisaureus (LN: Shyal; EN; Golden Jackle).
Invasive alien species	Ageratum conyzoides (LN: Gandhe; EN: Billy Goat Weed). Endemic plant/animal None.

### C. Socio-Economy at Basin

Nearby settlement	DhakkaGaon; 50m from lake; Main Trail: Belauri to Dhanghadi; 1km from lake.
Land use	Forestland (5%); Agriculture (80%); Settlement (10%); Others (5%).
Demography	Population: 15,401; Male: 7,262; Female: 8,139; HHs: 2,760; Ethnicity: Brahmin/Chhetri (24.10%); Janajati (58.50%); Dalit (16.82%); Other (0.58%). MajorReligion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	Tharu.
Livestock at basin	>500.
Traditional production system	Fish farming and irrigation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fish, recreation.
Cultural services	None.

### E. Restoration/Management

Structural management	None (Maintaining depth by takeout of soil).
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Non-structural management  
Conservation plan  
Monitoring plan

None.  
None.  
None.

**F. Tourism information**

No visitors; Few good hotels in Belaury Bazar; Motorable road to New Dhakka; Transportation services from Mahendrangar to Belaury Bazar and Belaury Bazar to Dhangadi; Needs promotional activities.

**G. Lake condition**

Degrading.

## 9. Godbijula Lake

Code: P7-D8-009

Toposheet no: N/A

Date of inventory: May 27, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.848426782°N; Lon:80.422321487°E; Alt:187 masl.  
Geographical position Terai Range.

Administrative feature

FWDR; Kanchanpur district; Krishnapur Municipality; Ward-2; Bandi.

Boundary

(Current: Krishnapur Municipality; Ward no. 2)

Core Area: Agricultural land in south and east direction and road in north and west direction.

Basin Area: Forest in all directions.

Management responsibility

Godbijula Conservation Committee with the representation of DDC.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec);  
Rainfall:1422.7mm/yr.

Area

Core Area:8.8 ha; Avg. Length:500 m; Avg. Width:100 m;  
Avg. Depth:3 m; Max-Min Surface Water Level:1-2.5 m;  
Basin Area:96 ha.

Water Volume

NA.

Water quality

Physicochemical parameter: Temp.:23°C, pH:5.7;  
Transparency:0.5 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Typha angustifolia* (LN: Pater; HT: Hr; LU: Nonel)  
*Nymphaeastellata* (LN: Nilkamal; HT: Ff; LU: Orn);  
*Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: None).

Major plants in basin

*Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm, Med);  
*Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Shorea robusta*  
(LN: Sal; HT: Tr; LU: Fur, fuel); *Synzigium cumini* (LN:  
Jamun; HT: Tr; LU: Tm, Fr); *Adena cordifolia* (LN: Asna; HT:  
Tr; LU: Tm);

Fish

*Cetanoaryngodon idella* (LN: Carp; LU: Meat);  
*Hypophthalmichthys nobilis* (LN: Carp; LU: meat); *Labeo rohita*  
(LN: Rohu; LU: Meat).

Herpetofauna

*Bufo melanostictus* (LN: Khasre bhyaguto; EN: Black-spined  
toad); *Calotes versicolor* (LN: Cheparo; EN: Garden Lizard);

Birds	Python morulus (LN: Ajingar; EN: Asiatic Rock Python); Ptyas mucosa (LN: Dhaman; EN: Ratsnake). <i>Casmerodius albus</i> (EN: Great Egret; EN: Thulo seto Bakulla); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Vanellus indicus</i> (LN: Huttitau; EN: Red-wattled lapwing); <i>Falco tinnunculus</i> (LN: Baaj; EN: Common Kestrel); <i>Treron pompadora</i> (LN: Haleso; EN: Pompadour Green Pigeon); <i>Turdoides striata</i> (LN: Bhyakur; EN: Jungle Babbler).
Mammals	<i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Monkey); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: Squirrel); <i>Vulpes bengalensis</i> (LN: Fushre fauro; EN: Bengal Fox) <i>Semnopithecus hector</i> (LN: dedu; EN: Terai grey langur).
Invasive alien species	<i>Mikania micrantha</i> (LN: Lahare Banmara; EN: Bitter Vine); <i>Eupatorium sps</i> (LN: Banmara; EN: Thoroughwort).

### C. Socio-Economy at Basin

Nearby settlement	Bandi Gaun; 50 m from lake; Main Trail: Bandi Chowk-Bandi Gaun- Lake; 50 m from lake.
Land use	Forestland (8%); Agriculture (3%); Shrubland (45%); Grassland (29%); Barrenland (15%).
Demography	Population:36706; Male:17552; Female:19154; HHs:6723; Ethnicity: Brahmin/Chhetri (52.15%); Janajati (43.12%); Dalit (3.72%); Other (1%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State. Wetlands dependent community None. Livestock at basin >2500.
Traditional production system	Traditional farming including aromatic & medicinal plant.
Traditional water use practices	None
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	Aesthetic; Religious; Educational.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

Few visitors; No tourism potential.

### G. Lake condition

Degrading.

## 10. Jhilmila Lake

Code: P7-D8-010

Toposheet no: 2980 13D

Date of inventory: May 23, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:29.06757153°N; Lon:80.18779043°E; Alt:668 masl. Geographical position Terai.
Administrative feature	FWDR; Kanchanpur district; Bhimdutta Municipality; Ward-9; Jhilmila. (Current: Bhimdutta Municipality; Ward no. 9)
Boundary	Core Area: Forest in all directions. Basin Area: Forest in all directions.
Management responsibility	Jhilmila Conservation Committee with the representation of DDC.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec); Rainfall: 1422.7mm/yr
Area	Core Area:4.3 ha; Avg. Length:700 m; Avg. Width:130 m; Avg. Depth:9 m; Max-Min Surface Water Level:NA; Basin Area:40.2 ha.
Water Volume	NA.
Water quality	Physicochemical parameter: Temp.: 24°C, pH: 6.0; Electric conductivity: N.A. Transparency: 0.5 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: <i>Nymphaea stellata</i> (LN: Nilkamal; EN: Blue lotus; HT: Ff; LU: Orn); <i>Sphagnum nepalensis</i> (LN: Jhyau; HT: E m; LU: none).
Major plants in basin	<i>Shorea robusta</i> (LN:Sal; HT:Tr; LU:Fur, fuel); <i>Synzigium cumini</i> (LN:Jamun; HT:Tr; LU:Tm, Fr); <i>Mallootus philippensis</i> (LN:Sindure; HT:Tr; LU:Med); <i>Embllica officinalis</i> (LN:Amala; HT:Tr, LU:Med, Fruit); <i>Bombax ceiba</i> (LN:Simal; HT:Tr; LU:Med); <i>Butea monospermea</i> (LN:Palash; HT:Tr; LU:Tm, Rel); <i>Terminalia chebula</i> (LN:Harro; LU:Med); <i>Terminalia bellirica</i> (LN:Barro; HT:Tr; LU:Med); <i>Terminalia elliptica</i> (LN:Saanj; HT:Tr; LU:Tm, Fuel); <i>Imperata cylindrica</i> (LN:Siru; HT:Hr; LU:Fod).
Fish	<i>Cetanoaharyngodon idella</i> (LN: Carp; LU: Meat); <i>Hypophthalmichthys nobilis</i> (LN: Carp; LU: meat); Labeo

	rohita (LN: Rohu; LU: Meat) <i>Clarias batrachus</i> (LN: Mungri; LU: meat) <i>Mylopharyngodon piceus</i> (EN: Kalokarp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silvercarp; LU: Meat).
Herpetofauna	<i>Bufo melanostictus</i> (LN:Khasre bhyaguto; EN:Black-spined toad ); <i>Calotes versicolor</i> (LN:Cheparo; EN:Garden Lizard); <i>Hoplobatrachus crassus</i> (LN:Sirke Paha; EN:Jerdon's bull frog); <i>Amolops marmoratus</i> (LN:Tite Paha); <i>Varanus bengalensis</i> (LN:Bhainse; EN:Monitor lizard); <i>Polypedtes maculatus</i> (LN:Rukh Bhyaguto; EN:Common Indian tree frog); <i>Lissemys punctata andersoni webb</i> (LN:PuTali kachuwa; EN:North Indian flapshell turtle); <i>Python morulus</i> (LN:Ajingar; EN:Asiatic Rock Python); <i>Ptyas mucosa</i> (LN:Dhaman; EN:Ratsnake).
Birds	<i>Casmerodius albus</i> (EN: Great Egret; EN: Thulose to Bakulla); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Vanellus indicus</i> (LN: Huttitau; EN: Red-wattled lapwing); <i>Falco tinnunculus</i> (LN: Baaj; EN: Common Kestrel); <i>Treron pompadora</i> (LN: Haleso; EN: Pompadour Green Pigeon); <i>Turdoides striata</i> (LN: Bhyakur; EN: Jungle Babbler).
Mammals	<i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Monkey); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: Squirrel); <i>Sus scrofa</i> . (LN: Badel; EN: Wild Boar); <i>Axis axis</i> (LN: Chittal; EN: spotted deer); <i>Boselaphus tragocamelus</i> (LN: Nilgai; EN: Bluebull). <i>Vulpes bengalensis</i> (LN: Fushre fauro; EN: Bengal Fox); <i>Semnopithecus hector</i> (LN: Dedu; EN: Terai grey langur).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Parthenium hysterophorus</i> (LN: Gajar jhar; EN: Famine weed); <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed); <i>Xanthium strumarium</i> (LN: Bhede kuro; EN: Cockle bur sheep bar).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Bramhadev; 9 km from lake; Main Trail: Bramhadev-Tarakot-Jhilmila; 9 km from lake.
Land use	Forestland (98%); Grassland (2%).
Demography	Population:10, 4599; Male:51, 087; Female:53, 512; HHs:20, 684; Ethnicity: Brahmin/Chhetri (67.3%); Janajati (26.14%); Dalit (6.17%); Other (0.19%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>2500.
Traditional production system	None
Traditional water use practices	Religious/ritual pond.
Cultural record	Religious site; Shiva Parbati Mandir; Fair at Magh Sukla Dashami.
Genesis/origin of lake	None.

**D. Ecosystem Goods/Services**

Provisional services

Fodder; Medicinal plants.

Cultural services

Aesthetic; Religious; Educational

**E. Restoration/Management**

Structural management

Dam; Support from Ministry of Environment; NLDC and DDC. Non-structural management Formal restriction.

Conservation plan

Available (by the East Foundation and DFO).

Monitoring plan

None.

**F. Tourism information**

>25,000 visitors/yr; Tourism potential high. Needs promotional activities.

**G. Lake condition**

Degrading.



## 11. Jharan Tal

Code: P7-D8-011

Toposheet no:NA

Date of inventory: June 30, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:28.86618°N; Lon:80.42164°E; Alt:194 masl. Geographical position Tarai.
Administrative feature	FWDR; Kanchanpurdistrict; Bani Municipality; Ward no. 2; Krishnapur. (Current: Krishnapur Municipality; Ward no. 2)
Boundary	Core Area: Forest in all directions. Basin Area: BaijyanathTal in the east, Bani to Muktakamaya trail, East-west highway in south, Bolabari Community Forest in the west.
Management responsibility	Golabari Community Forest.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec); Rainfall: 1422.7mm/yr
Area	Core Area:0.6328 ha; Avg. Length:100 m; Avg. Width:30 m; Avg. Depth:1 m; Max-Min Surface Water Level:1.5-0.5 m; Basin Area:15 ha.
Water Volume	Peak Period: 4,500,000 ltr; Dry period: 750,000 ltr; Inlet: None; Outlet: None
Water quality	Physiochemical parameter: Temp.:28.7°C, pH:7.3; DO:4.2mg/l; Transparency:0.3 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	Water Hycianth. LU: Orn); Nelumbonucifera (LN: Kamal; HT: Ff; LU: none).
Major plants in basin	<i>Shorea robusta</i> (LN: sal; HT: Tr; LU: Tml); <i>Syzygium cumini</i> (LN: jamun; HT:TR; LU: Tm, Md); <i>Terminalialaalata</i> (LN: Asna; HT: Tr; LU: Tm); <i>Mallotusphilippensis</i> (LN: Sindhure; HT: Hr; LU: Fd); <i>Osbeckia stellate</i> (LN: Asare; HT: Sh, LU: Md, Leaf); <i>Toonaciliata</i> (LN: Tooni; HT: Tr; LU: Tm); <i>Imperatacylindrica</i> (LN: Siru; HT: Grass; LU: Fd); <i>Thysanolaena maxima</i> (LN: Amriso; HT: Grass; LU: Fd).
Fish	<i>Cetanoharyngodonidella</i> (LN: Grass Carp; LU: Meat); <i>Labeorohita</i> (LN: Rohu; LU: Meat); <i>Hypophthalmichthysnobilis</i> (EN: Bighead carp; LU: Meat);

Herpetofauna	Hypophthalmichthys molitrix (LN: Silver Carp; LU: Meat); Cirrhinus mrigala (LN: Naini; LU: Meat). Bufo melanostictus (LN: Khashre Bhyaguto; EN: Black-spined Toad); Bufo stomaticus (LN: Khatkhyarri Magoba; EN: Assam Toad); Euphlyctis cyanophlyctis (LN: Tik-tike Paha; EN: Skittering Frog); Limnonectes teraiensis (LN: Tik-tike Paha; EN: Nepalese Terai Frog); Sphaerothecobreviceps (LN: Rani Byaguyo; EN: Indian Burrowing Frog) Hardellathurjii (LN: Kachhuwa; EN: Eastern Crowned River Turtle); Pangshurapectum (LN: Kachhuwa; EN: Indian Roofed Turtle); Chitra indica (LN: Badahar; EN: Narrow-headed Softshell Turtle); Rhamphotyphlops braminus (LN: Teliya Sanp; EN: Common Blind Snake); Enhydrysdryas (LN: Pani Sarpa; EN: Common Smooth Watersnake); <i>Varanus bengalensis</i> (LN: Bhainse Gohoro; EN: Bengal Monitor Lizard); <i>Varanus flavescens</i> (LN: Sun Gohoro; EN: Golden Monitor Lizard).
Birds	Dendrocygna javanica (LN: Silsile; EN: Lesser Whistling-duck); Amaurornis phoenicurus (LN: Sim Kukhura; EN: White-breasted Waterhen); Metopidius indicus (LN: Lama Aunle; EN: Bronze-winged Jacana); Phalacrocorax niger (LN: Sano Jalewa; EN: Little Cormorant); Bubulcus ibis (EN: Bastu Bakulla; EN: Cattle Egret); Anthracoceros albirostris (LN: Kalo Dhanesh; EN: Oriental Pied Hornbill); Mulleripicus pulverulentus (LN: Raj Lahache; EN: Great Slaty Woodpecker); Grus antigone (LN: Sarus; EN: Sarus Crane); Pavocristatus (LN: Majur; EN: Indian Peafowl).
Mammals	Lepus nigricollis (LN: Ban Kharayo; EN: Indian Hare); Hystric brachyuran (LN: Malaya Dhumsi; EN: Malayan Porcupine); Felis bengalensis (LN: Chari Bagh; EN: Leopard Cat); Patherapardus (LN: Chituwa; EN: Common Leopard); Panthera tigris (LN: Pate Bagh; EN: Bengal Tiger); Canis aureus (LN: Shyal; EN: Golden Jackal); Macaca mulatta (LN: Rato Bandar; EN: Rhesus Monkey); Axis axis (LN: Chital; EN: Spotted Deer); <i>Sus scrofa</i> (LN: Bandel; EN: Eurasian Wild Boar); Boselaphus tragocamelus (LN: Nil Gai; EN: Blue Bull).

Invasive alien species *Ipomoea carnea* (LN: Besara m; EN: Shrubby Morning Glory).

Endemic plant/animal None.

### C. Socio-Economy at Basin

Nearby settlement	Bani Gaon; 20 from lake; Main Trail: Bani Bazar to Baijyanath trail; 10m from lake.
Land use	Forestland (80%); Agriculture (10%); Settlement (8%); Others (2%).
Demography	Population: 36,706; Male: 17,552; Female: 32.39; HHs: 6,723; Ethnicity: Brahmin/Chhetri (53.92%); Janajati (32.39%); Dalit (13.32%); Other (0.37%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	Restriction for livestock.
Traditional production system	Fish farming.
Traditional water use practices	Irrigation.
Cultural record	Baijyanath Temple.

Genesis/origin of lake None.

#### **D. Ecosystem Goods/Services**

Provisional services Fish, Irrigation in Rainy season.

Cultural services Aesthetic/Religious.

#### **E. Restoration/Management**

Structural management None.

Non-structural management Restriction for Livestocks.

Conservation plan None.

Monitoring plan None.

#### **F. Tourism information**

<500 visitors; Few good hotels in Bani Bazar which is 100m from lake. Lake is very close to the Mahendra Highway; Transportation services from Attariya to Mahendrangar at any time; Needs promotional activities.

#### **G. Lake condition**

Degrading.

## 12. Kalikich Taal

Code: P7-D8-012

Toposheet no: 2880 02C

Date of inventory: June 29, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.802000°N; Lon:80.260235°E; Alt:145 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kanchanpur district; Beldandi Municipality; Ward no. 3; Gaudi.

Boundary

(Current: Shuklaphanta Municipality; Ward no. 3)

Core Area: Farmland in south, forest in all directions.

Basin Area: Gaudi gaon and Beldandichowk in south; Gaudi to Maghgaon trail, and Shukla Phanta Wildlife Reserve boundary in east and north.

Management responsibility

Shukla Phanta Wildlife Reserve.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec);  
Rainfall:1422.7mm/yr.

Area

Core Area:10 ha; Avg. Length:550 m; Avg. Width:300 m;  
Avg. Depth:5 m; Max-Min Surface Water Level:6-4 m; Basin  
Area:50ha.

Water Volume

Peak Period: 750,000,000ltr; Dry period: 150,000,000 ltr;  
Inlet: None; Outlet:

Water quality

Physichemical parameter: Temp.:34.8°C, pH:7.5; DO:3.7;  
Transparency:0.6 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water Hycianth.

Major plants in basin

*Shorea robusta* (LN: sal; HT: Tr; LU: Tml); *Syzygium cumini* (LN: jamun; HT:TR; LU: Tm, Md); *Terminalia alata* (LN: Asna; HT: Tr; LU: Tm); *Mallotus philippensis* (LN: Sindhure; HT: Hr; LU: Fd); *Trewia nudiflora* (LN: Vellor; HT: Tr; LU: Fd).

Fish

*Cetanolaryngodon idella* (LN: Grass Carp; LU: Meat); *Labeo rohita* (LN: Rohu; LU: Meat); *Hypophthalmichthys nobilis* (EN: Bighead Carp; LU: Meat); *Hypophthalmichthys molitrix* (LN: Silver Carp; LU: Meat); *Cirrhinus mrigala* (LN: Naini; LU: Meat), *Catla catla* (LN: Vyakur; LU: Meat).

Herpetofauna

*Crocodylus palustris* (LN:MagarGohi; EN:Mugger Crocodile); *Bufo stomaticus* (LN:Khatkhyarri Magoba; EN:Assam Toad); *Kaloula taprobanica* (LN:Byaguyo; EN:Srilanka Bullfrog); *Euphlyctis cyanophlyctis* (LN:Tik-tike Paha; EN:Skittingring

	Frog); <i>Melanochelys trijuga</i> (LN:Kachhuwa; EN: Eastern Blace Turtle); <i>Naja naja</i> (LN:Goban Sarpa; EN:Spectacled Cobra); <i>Aspideretes gangeticus</i> (LN:Kataiya; EN:Indian Soft Shell); <i>Python molurus</i> (LN:Ajinger; EN:Burmese Rock Python); <i>Amphiesma stolatum</i> (LN:Harara; EN:Buff-srtiped Keelback); <i>Xenochrophis piscator</i> (LN:Pani Sarpa; EN:Chequered Keelback Watersnake).
Birds	<i>Gallus gallus</i> ( LN:Luiche; EN:Red Jungle Fowl); <i>Phalacrocorax niger</i> (LN:Sano Jalewa; EN:Little Cormorent); <i>Casmerodius albus</i> (EN:Thulo Seto Bakull; EN:Great Egret); <i>Ciconia episcopus</i> (LN:Lovipapi Garud; EN:Wooly-necked Stork); <i>Pavo cristatus</i> (LN:Majur; EN:Indian Peafowl); <i>Bubulcus ibis</i> (LN:Bastu Bakulla; EN:Cattle Egret); <i>Halcyon smyrnensis</i> (LN:Setokanthe Matekore; EN:White-throated Kingfisher); <i>Pernisptilorhyncus</i> (LN:Madhuwa; EN:OrientAl Honey Buzzard); <i>Ceryle rudis</i> (LN:Chirbire Matikore; EN:Pied Kingfisher); <i>Sturlus contra</i> (LN:Dangre Sarau; EN:Asian Pied Starling).
Mammals	<i>Lepus nigricollis</i> (LN: Ban Kharayo; EN: Indian Hare); <i>Felis chaus</i> (LN: Ban Biralalo; EN: Jungle Cat); <i>Felis bengalensis</i> (LN: Chari Bagh; EN: Leopard Cat); <i>Canis aureus</i> (LN: Shyal; EN: Golden Jackle); <i>Macaca mulatta</i> (LN: Rato Bandar; EN: Rhesus Monkey); <i>Sus scrofa</i> (LN: Bandel; EN: Eurasian Wild Boar); <i>Funambulus pennant</i> (LN: Panchdharke Lokharke; EN: Northern Palm Squirrel).
Invasive alien species	<i>Ipomoea cornia</i> (LN: Besara m; EN: Shrubby Morning Glory); <i>Ageratum conizoides</i> (LN: Gandhe; EN: Billy Goat Weed).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Gaudi; 50m from lake; MainTrail: Mahendranagar to Beldandiroadgaon; 100mfrom lake.
Land use	Forestland (60%); Grassland (5%) Agriculture (15%); Settlement (10%); Others (10%).
Demography	Population: 17,570; Male: 8,236; Female: 9,334; HHs: 3,022; Ethnicity: Brahmin/Chhetri (55.64%); Janajati (27.71%); Dalit (16.14%); Other (0.51%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>2000.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	None.
Cultural services	None.

### E. Restoration/Management

Structural management  
Non-structural management  
Conservation plan  
Monitoring plan

Fencing by Shukla Phanta Wildlife Reserve.  
Gaurding by National Army.  
None.  
None.

**F. Tourism information**

>2000 visitors/year; Few good hotels in Beldandi Check Post which is 100m from lake; Motarable road to Beldandi check post; Transportation services from Mahendranganar to Beldandi; Needs promotional activities.

**G. Lake condition**

Degrading.

### 13. Karki Lake

Code: P7-D8-013

Toposheet no:2880 06B

Date of inventory: May 28, 2016



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.638042°N; Lon:80.362245°E; Alt:158 masl.  
Geographical position Terai Range.

Administrative feature

FWDR; Kanchanpur district; Belaury Municipality; Ward-1; Laxmipur.

Boundary

(Current: Belaury Municipality; Ward no. 2)

Core Area: Forest in west and south Direction, Agricultural Land in north direction and road in east direction.

Basin Area: Forest in all direction.

Management responsibility

Laxmipur Conservation Committee with the representation of DDC. Wetlands type Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp: 30.5°C (Jun/July); Avg. Min: 17.5°C (Dec);  
Rainfall:1422.7mm/yr

Area

Core Area: 15.4 ha; Avg. Length:200 m; Avg. Width:130 m;  
Avg. Depth:4 m; Max-Min Surface Water Level:NA; Basin  
Area:148.7 ha.

Water Volume

NA.

Water quality

Physicochemical parameter: Temp.:24°C, pH:5.8; Electric  
conductivity: N.A Transparency:0.5 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Typha angustifolia* (LN: Pater; HT: Hr; LU: Nonel)  
*Nymphaea stellata* (LN: Nilkamal; HT: Ff; LU: Orn);  
*Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: None).

Major plants in basin

*Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Shorea robusta*  
(LN: Sal; HT: Tr; LU: Fur, fuel); *Synzigium cumini* (LN:  
Jamun; HT: Tr; LU: Tm, Fr); *Adena cordifolia* (LN: Haldo;  
HT: Tr; LU: Tm); *Bombax ceiba* (LN: Simal; HT: Tr; LU:  
Med); *Butea monospermea* (LN: Palash; HT: Tr; LU: Tm,  
Rel); *Terminalia chebula* (LN: Harro; LU: Med); *Terminalia*  
*bellirica* (LN: Barro; HT: Tr; LU: Med); *Terminalia elliptica*  
(LN: Saanj; HT: Tr; LU: Tm, Fuel).

Fish

*Cetanolaryngodon idella* (LN: Carp; LU: Meat); *Labeo rohita*  
(LN: Rohu; LU: Meat); *Hypophthalmichthys nobilis* (LN:  
Carp; LU: meat); *Hypophthalmichthys molitrix* (LN:  
Silvercarp; LU: Meat); *Clarias batrachus* (LN: Mungri; LU:  
meat).

### 13. Karki Lake

Code: P7-D8-013

Toposheet no:2880 06B

Date of inventory: May 28, 2016



#### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.638042°N; Lon:80.362245°E; Alt:158 masl.  
Geographical position Terai Range.

Administrative feature

FWDR; Kanchanpur district; Belaury Municipality; Ward-1; Laxmipur.

Boundary

(Current: Belaury Municipality; Ward no. 2)

Core Area: Forest in west and south Direction, Agricultural Land in north direction and road in east direction.

Basin Area: Forest in all direction.

Management responsibility

Laxmipur Conservation Committee with the representation of DDC. Wetlands type Fresh water/natural; Lacustrine; Permanent.

#### B. Ecological Feature

Climatic feature

Avg. Max: Temp: 30.5°C (Jun/July); Avg. Min: 17.5°C (Dec);  
Rainfall:1422.7mm/yr

Area

Core Area: 15.4 ha; Avg. Length:200 m; Avg. Width:130 m;  
Avg. Depth:4 m; Max-Min Surface Water Level:NA; Basin  
Area:148.7 ha.

Water Volume

NA.

Water quality

Physicochemical parameter: Temp.:24°C, pH:5.8; Electric  
conductivity: N.A Transparency:0.5 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Typha angustifolia* (LN: Pater; HT: Hr; LU: Nonel)  
*Nymphaea stellata* (LN: Nilkamal; HT: Ff; LU: Orn);  
*Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: None).

Major plants in basin

*Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Shorea robusta*  
(LN: Sal; HT: Tr; LU: Fur, fuel); *Synzigium cumini* (LN:  
Jamun; HT: Tr; LU: Tm, Fr); *Adena cordifolia* (LN: Haldo;  
HT: Tr; LU: Tm); *Bombax ceiba* (LN: Simal; HT: Tr; LU:  
Med); *Butea monospermea* (LN: Palash; HT: Tr; LU: Tm,  
Rel); *Terminalia chebula* (LN: Harro; LU: Med); *Terminalia*  
*bellirica* (LN: Barro; HT: Tr; LU: Med); *Terminalia elliptica*  
(LN: Saanj; HT: Tr; LU: Tm, Fuel).

Fish

*Cetanolaryngodon idella* (LN: Carp; LU: Meat); *Labeo rohita*  
(LN: Rohu; LU: Meat); *Hypophthalmichthys nobilis* (LN:  
Carp; LU: meat); *Hypophthalmichthys molitrix* (LN:  
Silvercarp; LU: Meat); *Clarias batrachus* (LN: Mungri; LU:  
meat).



**F. Tourism information**

Few visitors; Few good hotels in lake site; Motorable road to Laxmipur; Good hotel and transportation services from Laxmipur; Moderate tourism potential.

**G. Lake condition**

Degrading.

## 14. Kulla Tal

Code: P7-D8-014

Toposheet no: 288002C

Date of inventory: June 29, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.76858°N; Lon:80.267487°E; Alt:160 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kanchanpur district; Beldandi Municipality; Ward no. 4; Plot.

Boundary

(Current: Beldandi Rural Municipality; Ward no. 1)

Core Area: Beldandi to Dhakeni road in south; Paddy field in other directions.

Basin Area: Beldandi to Dhakeni road in south; Beldandi Bazar in east; Dhakicha-Beldandi Nahar and Plot-Beldandi Bazae trail in north.

Management responsibility

Hunayanath Krisak Samuha, Plot.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec);  
Rainfall: 1422.7ml/yr

Area

Core Area:5.8513 ha; Avg. Length:150 m; Avg. Width:30 m; Avg. Depth:2 m; Max-Min Surface Water Level:2.5-1.5 m; Basin Area:150 ha.

Water Volume

Peak Period: 11,250,000 ltr; Dry period: 3,750,000 ltr;  
Inlet: None; Outlet:

Water quality

Physiochemical parameter: Temp.:35.5oC, pH:7.6; DO:3.55 mg/l; Transparency:0.6m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: Pistia stratiotes (LN: Kumbhika; EN: Water Lettuce; HT: Ff); Typha angustifolia (LN: Pater; HT: E m; LU: Fd); Eichhornia crassipes (LN: Jal Kumbhi; EN: Water Hyacinth); Typha angustifolia (LN: Pater; HT: E m; LU: Fd); Azolla sp. (LN: Pani Unyu; HT: Ff; LU: Biofertilizer).

Major plants in basin

Bombox ceiba (LN: Simal; HT: Tr; LU: Tm); Syzygium cumini (LN: jamun; HT:TR; LU: Tm, Md); Eucalyptus alba (LN: Masala; HT: Tr; LU: Tm); Dalbergia sisoo (LN: Sisoo; HT: Tr; LU: Tm); Phramitis vallatoria (LN: Narkat; HT: Sh; LU: Orn); Trewia nudiflora (LN: Vellor; HT: Tr; LU: Fd).

Fish

Cetanoaharyngodon idella (LN: Grass Carp; LU: Meat); Labeo rohita (LN: Rohu; LU: Meat); Hypophthalmichthys nobilis

	(EN: Bighead Carp; LU: Meat); <i>Hypophthalmichthys molitrix</i> (LN: Silver Carp; LU: Meat); <i>Clarias batrachus</i> (LN: Mangur; LU: Meat); <i>Cirrhinus mrigala</i> (LN: Naini; LU: Meat), <i>Catla catla</i> (LN: Vyakur; LU: Meat); <i>Puntios sarona</i> (LN: Kande; LU: Meat).
Herpetofauna	<i>Bufo stomaticus</i> (LN:Khatkhyarri Meghoba; EN:Assam Toad) <i>Kaloula taprobanica</i> (LN:Bhyaguto; EN:Srilanka Bullfrog); <i>Hardella thurjii</i> (LN:Kachhuwa; EN:Easten Crowned River Turtle); <i>Euphlyctis cyanophlyctis</i> (LN:Tiktike Paha; EN:Skittering Frog); <i>Kachuga kachuga</i> (LN:Kachhuwa; EN:Painted Roffed Turtle); <i>Melanochelys trijuga</i> (LN:Padani Kachhuwa; EN:Eastern Black Turtle); <i>Chitra indica</i> (LN:Badahar; EN:Narrow-headed Softshell Turtle); <i>Rhamphotyphlops braminus</i> (LN:Teliya Sanp; EN:Common Blind Snake); <i>Enhydris sieboldii</i> (LN:Machhagidhi; EN:Siebold's Smooth Water Snake).
Birds	<i>Amaurornis phoenicurus</i> (EN:Sim Kukhura; EN:White-breasted Waterhen); <i>Dendrocygna javanica</i> (LN:Silsile; EN:Lesser whistling Duck); <i>Metopidius indicus</i> (LN:Lama Aunle; EN:Bronze-winged Jacana); <i>Phalacrocorax niger</i> (LN:Sano Jalewa; EN:Little Cormorent); <i>Bubulcus ibis</i> (EN:Bastu Bakulla; EN:Cattle Egret); <i>Halcyon smyrnensis</i> (LN:Setokanthe Matikorer; EN:White-throated Kingfisher); <i>Merops philippinus</i> (LN:Nilpuchhre Murali Chara; EN:Blue-tailed Bee-eater); <i>Coracias bengalensis</i> (LN:Theuwa; EN:Indian Roller).
Mammals	<i>Lepus nigricollis</i> (LN: Ban Kharayo; EN: Indian Hare); <i>Callosciurus pygerythrus</i> (LN: Pahadi Ban Lokharke; EN: Irrawaddy Squirrel); <i>Vandeleuria oleracea</i> (LN: Lampuchhre Rukh Muso; EN: Asiatic Long- tailed Climbing Mouse); <i>Hystrix indica</i> (LN: Jure Dumsi; EN: Indian Crested porcupine); <i>Canis aureus</i> (LN: Shyal; EN: Golden Jackle).
Invasive alien species	<i>Ipomoea carnea</i> (LN: Besara m; EN: Shrubby Morning Gory); <i>Eichhornia crassipes</i> (LN: Jal Kumbhi; EN: Water Hyacinth); <i>Oxalis latifolia</i> (LN: Chari Amilo; EN: Purple Wood Sorrel); <i>Pistia stratiotes</i> (LN: Kumbhika; EN: Water Lettuce).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Plot; lake at the centre of village; Main Trail: Daiji- Beldandi raod; 1km from lake and motorable road upto lake.
Land use	Forestland (5%); Agriculture (80%); Settlement (10%); Others (5%).
Demography	Population: 17,570; Male: 8,236; Female: 9,334; HHs: 3,022; Ethnicity: Brahmin/Chhetri (55.64%); Janajati (27.71%); Dalit (16.14%); Other (0.51%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>100.
Traditional production system	Fish Farming of <i>Trapa</i> sps (LN: Panisingada; EN: Water Chestnut).
Traditional water use practices	None.
Cultural record	None.

Genesis/origin of lake None.

**D. Ecosystem Goods/Services**

Provisional services None.

Cultural services Scenic; Educational

**E. Restoration/Management**

Structural management None.

Non-structural management Cleaning per year; Wipeout of water hyacinth.

Conservation plan None.

Monitoring plan None.

**F. Tourism information**

>500 visitors/yr; Few good hotels in Beldandi Bazar; Motarable road to lake; Transportation services to Beldandi Bazar and private transportation prefer to 1-2 km; Fishing potential high. Needs promotional activities.

**G. Lake condition**

Degrading.

## 15. Mudka Lake

Code: P7-D8-015

Toposheet no: 2880 02B

Date of inventory: May 22, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.973693°N; Lon:80.417001°E; Alt:337 masl.  
Geographical position Terai.

Administrative feature

FWDR; Kanchanpur district; Jhalari Municipality; Ward-11;  
Baijanath Mandir.

Boundary

(Current: Shuklaphanta Municipality; Ward no. 8)

Core Area: Forest in all directions.

Basin Area: Forest in all directions.

Management responsibility

Baijanath Conservation Committee with the representation  
of DDC. Wetlands type Fresh water/natural; Lacustrine;  
Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec);  
Rainfall: 1422.7mm/yr

Area

Core Area:0.7 ha; Avg. Length:200 m; Avg. Width:200 m;  
Avg. Depth:3 m; Max-Min Surface Water Level:NA; Basin  
Area:17.7 ha.

Water Volume

NA.

Water quality

Physicochemical parameter: Temp.:24oC, pH:5.9; Electric  
conductivity: N.A. Transparency:0.5 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Typha angustifolia* (LN: Pater; HT: Hr; LU: None)  
*Nymphaea stellata* (LN: Nilkamal; HT: Ff; LU: Orn);  
*Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: None).

Major plants in basin

*Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm, Med);  
*Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Tm); *Shorea robusta*  
(LN: Sal; HT: Tr; LU: Fur, fuel); *Synzigium cumini* (LN:  
Jamun; HT: Tr; LU: Tm, Fr); *Adena cordifolia* (LN: Asna; HT:  
Tr; LU: Tm).

Fish

*Cetanolaryngodon idella* (LN: Carp; LU: Meat); *Labeo rohita*  
(LN: Rohu; LU: Meat); *Hypophthalmichthys nobilis* (LN:  
Carp; LU: meat)

Herpetofauna

*Bufo melanostictus* (LN: Khasre bhyaguto; EN: Black-spined  
toad); *Calotes versicolor* (LN: Cheparo; EN: Garden Lizard);  
*Python morulus* (LN: Ajingar; EN: Asiatic Rock Python);  
*Ptyas mucosa* (LN: Dhaman; EN: Ratsnake).

Birds	<i>Casmerodius albus</i> (EN: Great Egret; EN: Thulose to Bakulla); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Falco tinnunculus</i> (LN: Baaj; EN: Common Kestrel); <i>Vanellus indicus</i> (LN: huttititau; EN: Red-wattled lapwing); <i>Treron pompadora</i> (LN: Haleso; EN: Pompadour Green Pigeon); <i>Turdoides striata</i> (LN: Bhyakur; EN: Jungle Babbler).
Mammals	<i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Monkey); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: Squirrel); <i>Vulpes bengalensis</i> (LN: Fushre fauro; EN: Bengal Fox) <i>Semnopithecus hector</i> (LN: dedu; EN: Terai grey langur).
Invasive alien species	<i>Mikania micrantha</i> (LN: Lahare Banmara; EN: Bitter Vine); <i>Eupatorium sps</i> (LN: Banmara; EN: Thoroughwort).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Jhalari; 4 km from lake; Main Trail: Mudka-Jhalari; 4 km from lake to the main trail.
Land use	Forestland (99%); Grassland (1%).
Demography	Population:24347; Male:11407; Female:12940; HHs:4782; Ethnicity: Brahmin/Chhetri (64.08%); Janajati (20.07%); Dalit (15.49%); Other (0.35%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>800.
Traditional production system	None
Traditional water use practices	None.
Cultural record	Religious site; Baijanath Mandir.
Genesis/origin of lake	None.

### E. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants.
Cultural services	Aesthetic; Religious; Educational.

### F. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### G. Tourism information

>1,000 visitors/yr; Motorable road to Mudka Lake; Transportation services from Daijee Chowk; Tourism potential high. Needs promotional activities.

### H. Lake condition

Degrading.

## 16. Naini Tal

Code: P7-D8-016

Toposheet no: 2880 06B

Date of inventory: July 01, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.69183°N; Lon:80.41056°E; Alt:164 masl.  
Geographical position Tarai.

Administrative feature

(Current: Punarbas Municipality; Ward no. 1)

FWDR; Kanchanpur district; PunarbasMunicipality; Ward no.9; Dhakka.

Boundary

Core Area: Human settlement in west; Paddy field in other directions.

Basin Area: Dhakka to Bhakunda trail in west and east; Belauri to Dhangadi road in south; Dhakka to Motipur road in north.

Management responsibility

Punarbas Municipality.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec);  
Rainfall:1422.7mm/yr.

Area

Core Area:3 ha; Avg. Length:70 m; Avg. Width:70 m; Avg. Depth:1.5 m; Max-Min Surface Water Level:2-1 m; Basin Area:50ha.

Water Volume

Peak Period: 9,800,000ltr; Dry period: 600,000 ltr; Inlet: None; Outlet: None.

Water quality

Physiochemical parameter: Temp.:27.3°C, pH:8.4;  
DO:4.5mg/l; Transparency:0.3 m.

Soil feature

Red color; Clay loam.

Shocks/vulnerability

WaterHycianth.

Major aquatic plants

Core Area: None.

Major plants in basin

Dalbergiasisoo (LN: Sisoo; HT: Tr; LU: Tm); Zizyphusrugosa (LN: Rukh Bayar; HT: Tr; LU: Med, Fruit); Saccharumspontanum (LN: Kans; HT: Grass; LU: Fd); Saccharumbengalensis (LN: Worila; HT: Grass, LU: Fd); Imperatacylindrica (LN: Siru; HT: Grass; LU: Fd); Meliaazedarach (LN: Bhakenu; HT: Tr; LU: Fd); Eucalyptus alba (LN: Masala; HT: Tr; LU: Tm); Calotropis gigantean (LN: Anka; Tr: Shrub; LU: Med).

Fish

Cetanoharyngodonidella (LN: Grass Carp; LU: Meat); Labeorohita (LN: Rohu; LU: Meat); Hypophthalmichthysnobilis (EN: Bighead Carp; LU: Meat);

	Hypophthalmichthys molitrix (LN: Silver Carp; LU: Meat); Cirrhinus mrigala (LN: Naini; LU: Meat).
Herpetofauna	Kaloulataprobatica (LN: Byaguyo; EN: Srilanka Bullfrog); Euphlyctiscyanophlyctis (LN: Tik-tike Paha; EN: Skitting Frog); Naja naja (LN: Kachhuwa; EN: Indian Roofed Turtle); Amphispnaptalyceps (LN: GomanSanp; EN: Cobra); Boigaforsteni (LN: Lohagin; EN: Forsten's Cat Snake); Amphisma stolatum (LN: Harara; EN: Buff-stripped Keelback); Enhydris enhydris (LN: PaniSarpa; EN: Common Smooth Watersnake).
Birds	Metopidius indicus (LN: Lama Aunle; EN: Bronze-winged Jacana); Phalacrocorax niger (LN: Sano Jalewa; EN: Little Cormorant); Halcyon capensis (LN: Thulo Matikore; EN: Stork-billed Kingfisher); Bubulcus ibis (LN: Bastu Bakulla; EN: Cattle Egret); Mesophoyx intermedia (LN: Majhaua Seto Bakulla; EN: Intermediate Egret); Centropus himalayensis (LN: Dhode Gokul; EN: Greater Coucal); Pavocristatus (LN: Majur; EN: Indian Peafowl); Gallus gallus (LN: Luiche; EN: Red Jungle Fowl).
Mammals	Lepus nigricollis (LN: Ban Kharayo; EN: Indian Hare); Funambulus pennant (LN: Panch Darke Lokharke; EN: Northern Palm Squirrel); Millardiameltada (LN: Makhamali Muso; EN: Common Soft-furred Rat); Bandicota indica (LN: Thulo Dhande Muso; EN: Greater Bandicoot-rat); Hystrix indica (LN: Jure Dumsi, EN: Indian Crested Porcupine) Canis aureus (LN: Shyal; EN: Golden Jackle).
Invasive alien species	Ageratum conyzoides (LN: Gandhe; EN: Billy Goat Weed). Endemic plant/animal None.

### C. Socio-Economy at Basin

Nearby settlement	Dhakka Gaon; 50m from lake; Main Trail: Belauri to Dhanghadi; 1km from lake.
Land use	Forestland (5%); Agriculture (80%); Settlement (10%); Others (5%).
Demography	Population: 15,401; Male: 7,262; Female: 8,139; HHs: 2,760; Ethnicity: Brahmin/Chhetri (24.10%); Janajati (58.50%); Dalit (16.82%); Other (0.58%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	Tharu.
Livestock at basin	>500.
Traditional production system	Fish farming and irrigation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fish, recreation.
Cultural services	None

### E. Restoration/Management



Structural management

Maintaining depth by taking out excess deposited soil). Non-structural management None.

Conservation plan

None.

Monitoring plan

None.

**F. Tourism information**

No visitors; Few good hotels in Belaury Bazar; Motorable road to New Dhakka; Transportation services from Mahendrangar to Belaury Bazar and Belaury Bazar to Dhangadi; Needs promotional activities.

**G. Lake condition**

Degrading.

## 17. Naranga Lake (Big)

Code: P7-D8-017

Toposheet no: 2980 14D

Date of inventory: May 23, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:28.916278°N; Lon:80.38278499°E; Alt:215 masl. Geographical position Terai Range.
Administrative feature	FWDR; Kanchanpur district; Daijee V.D. Cs; Ward no. 9; Jhalari; Municipality; Sisaiya. (Current: Shuklaphanta Municipality; Ward no. 11)
Boundary	Core Area: Forest in all directions. Basin Area: Forest in all directions.
Management responsibility	Sisaiya Conservation Committee with the representation of DDC. Wetlands type Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec); Rainfall: 1422.7mm/yr.
Area	Core Area:0.9 ha; Avg. Length:200 m; Avg. Width:130 m; Avg. Depth:3 m; Max-Min Surface Water Level:NA; Basin Area:25.5 ha.
Water Volume	NA.
Water quality	Physicochemical parameter: Temp:24°C, pH:5.8; Transparency:0.5 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: <i>Sphagnum nepalensis</i> (LN: Jhyau; HT: E m; LU: none).
Major plants in basin	<i>Acacia catechu</i> (LN: Khayar; HT: Tr; LU: Tm, Med); <i>Dalbergia sisoo</i> (LN: Sisoo; HT: Tr; LU: Fuel) <i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm); <i>Synzigium cumini</i> (LN: Jamun; HT: Tr; LU: Tm, Fr); <i>Adina cardifolia</i> (LN: Asna, saanjh; HT: Tr; LU: Tm).
Fish	<i>Cetanoloharyngodon idella</i> (LN: Carp; LU: Meat)
Herpetofauna	<i>Bufo melanostictus</i> (LN: Khasre bhyaguto; EN: Black-spined toad); <i>Calotes versicolor</i> (LN: Cheparo; EN: Garden Lizard); <i>Hoplobatrachus crassus</i> (LN: Sirke Paha; EN: Jerdon's bull frog); <i>Amolops marmoratus</i> (LN: Tite Paha; EN: Sucker Frog).

Birds	<i>Casmerodius albus</i> (EN: Great Egret; EN: Thulo seto Bakulla); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Vanellus indicus</i> (LN: huttititau; EN: Red-wattled lapwing); <i>Falco tinnunculus</i> (LN: Baaj; EN: Common Kestrel)
Mammals	<i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Monkey); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: Squirrel); <i>Felis viverrina</i> (LN: Malaha biralo; EN: Fishing cat); <i>Sus scrofa</i> . (LN: Badel; EN: Wild Boar); <i>Axis axis</i> (LN: Chittal; EN: spotted deer); <i>Vulpes bengalensis</i> (LN: Fushre fauro; EN: Bengal Fox); <i>Semnopithecus hector</i> (LN: Dedu; EN; Terai grey langur)
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium sps</i> (LN: Banmara; EN: Thoroughwort), <i>Parthenium hysterophorus</i> (LN: Gajar jhar; EN: Famine weed); <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory); <i>Ageratum conyzoides</i> (LN: Nilo gande; EN: Cheek weed).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Sisaiya Gaun; 1 km from lake; Main Trail: Kaluwapur-Sisaiya road; 1km from lake to the main trail.
Land use	Agriculture (92%); Grassland (2%).
Demography	Population: 24,347; Male: 11,407; Female: 12,940; HHs: 4,782; Ethnicity: Brahmin/Chhetri (51.56%); Janajati (38.4%); Dalit (5%); Other (5%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Timber.
Cultural services	None

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No visitors; No tourism potential.

### G. Lake condition

Degrading.

## 18. Naranga Lake (Small)

Code: P7-D8-018

Toposheet no: 2980 14D

Date of inventory: May 23, 2016



### A. General Feature

Conservation status

None

Geographical coordination

Lat:28.91779728°N; Lon:80.3825978°E; Alt:215 masl.  
Geographical position Terai Range.

Administrative feature

FWDR; Kanchanpur district; Daijee V.D. Cs; Ward-9; Jhalari Municipality, Sisaiya.

Boundary

(Current: Shuklaphanta Municipality; Ward no. 9)

Core Area: Forest in all directions.

Management responsibility

Basin Area: Forest in all directions

Sisaiya Conservation Committee with the representation of DDC. Wetlands type Fresh water/natural; Lacustrine; Seasonal.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec);  
Rainfall: 1422.7mm/yr

Area

Core Area:1.1 ha; Avg. Length:200 m; Avg. Width:130 m;  
Avg. Depth:4 m; Max-Min Surface Water Level:NA; Basin  
Area:25.5 ha.

Water Volume

NA.

Water quality

Physicochemical parameter: NA.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Typha angustifolia* (LN: Pater; HT: Hr; LU: None)  
*Nymphaea stellata* (LN: Nilkamal; HT: Ff; LU: Orn);  
*Sphagnum nepalensis* (LN: Jhyau; HT: E m; LU: None).

Major plants in basin

*Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm, Med);  
*Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Fuel); *Shorea robusta* (LN: Sal; HT: Tr; LU: Tm); *Synzigium cumini* (LN: Jamun; HT: Tr; LU: Tm, Fr); *Oroxylum indicum* (LN: Tatelo; HT: Tr; LU: Med)

Fish

*Cetanolaryngodon idella* (LN: Carp; LU: Meat);  
*Hypophthalmichthys nobilis* (LN: Carp; LU: meat).

Herpetofauna

*Bufo melanostictus* (LN: Khasre bhyaguto; EN: Black-spined toad); *Calotes versicolor* (LN: Cheparo; EN: Garden Lizard); *Hoplobatrachus crassus* (LN: Sirke Paha; EN: Jerdon's bull frog); *Amolops marmoratus* (LN: Tite Paha); *Polypedtes maculatus* (LN: Rukh Bhyaguto; EN: Common Indian tree frog)

Birds	<i>Casmerodius albus</i> (EN: Great Egret; EN: Thulo seto Bakulla); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Vanellus indicus</i> (LN: huttititau; EN: Red-wattled lapwing); <i>Falco tinnunculus</i> (LN: Baaj; EN: Common Kestrel).
Mammals	<i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Monkey); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: Squirrel); <i>Felis viverrina</i> (LN: Malaha biralo; EN: Fishing cat); <i>Sus scrofa</i> (LN: Badel; EN: Wild Boar); <i>Axis axis</i> (LN: Chittal; EN: spotted deer).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium sps</i> LN: Banmara; EN: Thoroughwort); <i>Parthenium hysterophorus</i> (LN: Gajar jhar; EN: Famine weed); <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed); <i>Xanthium strumarium</i> (LN: Bhede kuro; EN: Cockle bur sheep bar); <i>Ageratum conyzoides</i> (LN: Nilo gande; EN: Cheek weed).
Endemic plant/animal	None

### C. Socio-Economy at Basin

Nearby settlement	Sisaiya Gaun; 1 km from lake; Main Trail: Kaluwapur-Sisaiya road Pokhari; 1 km from lake.
Land use	Agriculture (92%); Grassland (2%).
Demography	Population: 24,347; Male: 11,407; Female: 12,940; HHs: 4,782; Ethnicity: Brahmin/Chhetri (51.56%); Janajati (38.4%); Dalit (5%); Other (5%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Timber
Cultural services	None

### E. Restoration/Management

Structural management	None
Non-structural management	None
Conservation plan	None
Monitoring plan	None.

**F. Tourism information** No visitors.

**G. Lake condition** Degrading.

## 19. Newland Lake

Code: P7-D8-019

Toposheet no:

Date of inventory: May 23, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:28.95075252°N; Lon:80.42854918°E; Alt:201 masl.
Geographical position	Siwalik/Churiya Range.
Administrative feature	FWDR; Kanchanpur district; Krishnapur Municipality; Ward-1; Aishworya Community Forest.
Boundary	(Current: Krishnapur Municipality; Ward no. 1) Core Area: Forest in all directions. Basin Area: Forest in all directions.
Management responsibility	Aishworya Conservation Committee with the representation of DDC. Wetlands type Fresh water/natural; Lacustrine; Seasonal

### B. Ecological Feature

Climatic feature	Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec); Rainfall: 1422.7mm/yr.
Area	Core Area:0.8 ha; Avg. Length:500 m; Avg. Width:130 m; Avg. Depth:3 m; Max-Min Surface Water Level:NA; Basin Area:18.7 ha.
Water Volume	NA.
Water quality	Physicochemical parameter: Temp.:24oC, pH:6; Transparency:0.5 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: <i>Sphagnum nepalensis</i> (LN: Jhyau; HT: E m; LU: none)
Major plants in basin	<i>Acacia catechu</i> (LN: Khayar; HT: Tr; LU: Tm, Med); <i>Dalbergia sisoo</i> (LN: Sisoo; HT: Tr; LU: Fuel); <i>Adina cardifolia</i> (LN: Asna, saanjh; HT: Tr; LU: Tm)
Fish	None
Herpetofauna	<i>Bufo melanostictus</i> (LN: Khasre bhyaguto; EN: Black-spined toad); <i>Calotes versicolor</i> (LN: Cheparo; EN: Garden Lizard)
Birds	<i>Falcotinnunculus</i> (LN: Baaj; EN: Common Kestrel); <i>Treron pompadora</i> (LN: Haleso; EN: Pompadour Green Pigeon)
Mammals	<i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Monkey); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: Squirrel); <i>Felis viverrina</i> (LN: Malaha biralo; EN: Fishing cat)

Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory)
Endemic plant/animal	None

### C. Socio-Economy at Basin

Nearby settlement	Krishnapur Gaun; 3 km from lake; Main Trail: Banka Chowk-Krishnapur Gaun; 3 km from lake.
Land use	Agriculture (97%); Grassland (3%).
Demography	Population: 36,706; Male: 17,552; Female: 19,154; HHS: 6,723; Ethnicity: Brahmin/Chhetri (52.15%); Janajati (43.12%); Dalit (3.72%); Other (1%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Timber
Cultural services	None

### E. Restoration/Management

Structural management	None
Non-structural management	None
Conservation plan	None
Monitoring plan	None.

<b>F. Tourism information</b>	No visitors.
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<b>G. Lake condition</b>	Degrading.
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## 20. Peli Lake

Code: P7-D8-020

Toposheet no: 2880 02A



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:28.941945237°N; Lon:80.275970807°E; Alt:201 masl.
Geographical position	Terai Range.
Administrative feature	FWDR; Kanchanpur district; Daijee V.D. Cs; Ward no. 1; Daijee.
Boundary	Core Area: Forest in east and north directions and settlements in west and south direction. Basin Area: Forest in all directions. (Current: Bedkot Municipality; Ward no. 3)
Management responsibility	Daijee Conservation Committee with the representation of DDC.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp: 30.5°C (Jun/July); Avg. Min:17.5°C (Dec); Rainfall: 1422.7mm/yr.
Area	Core Area: 3.4 ha; Avg. Length:400 m; Avg. Width: 150 m; Avg. Depth:3 m; Max-Min Surface Water Level:NA9-6.5 m; Basin Area:79.3 ha.
Water Volume	NA.
Water quality	Physicochemical parameter: Temp.:24oC, pH:6; Transparency:0.5 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: <i>Typha angustifolia</i> (LN: Pater; HT: Hr; LU: None) <i>Nymphaea stellata</i> (LN: Nilkamal; HT: Ff; LU: Orn); <i>Sphagnum nepalensis</i> (LN: Jhyau; HT: E m; LU: None).
Major plants in basin	<i>Acacia catechu</i> (LN: Khayar; HT: Tr; LU: Tm, Med); <i>Dalbergia sisoo</i> (LN: Sisoo; HT: Tr; LU: Fuel) <i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm); <i>Synzigium cumini</i> (LN: Jamun; HT: Tr; LU: Tm, Fr); <i>Adina cardifolia</i> (LN: Asna, saanjh; HT: Tr; LU: Tm); <i>Embllica officinalis</i> (LN: Amala; HT: Tr, LU: Med, Fruit).
Fish	<i>Cetanoaharyngodon idella</i> (LN:Carp; LU:Meat); <i>Labeo rohita</i> (LN:Rohu; LU:Meat); <i>Hypophthalmichthys nobilis</i> (LN:Carp; LU:meat) <i>HerpetofaunaBufo melanostictus</i> (LN:Khasre bhyaguto; EN:Black-spined toad ); <i>Calotes versicolor</i> (LN:Cheparo; EN:Garden Lizard); <i>Hoplobatrachus crassus</i> (LN:Sirke Paha; EN:Jerdon's bull frog); <i>Amolops</i>



	marmoratus(LN:Tite Paha); <i>Varanus bengalensis</i> (LN:Bhainse; EN:Monitor lizard); <i>Polypedtes maculates</i> (LN:Rukh Bhyaguto; EN:Common Indian tree frog); Python morulus (LN:Ajingar; EN:Asiatic Rock Python); Ptyas mucosa (LN:Dhaman; EN:Ratsnake).
Birds	<i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Vanellusindicus</i> (LN: Huttititau; EN: Red-watteded lapwing); <i>Falcotinnunculus</i> (LN: Baaj; EN: Common Kestrel); <i>Treron pompadora</i> (LN: Haleso; EN: Pompadour Green Pigeon)
Mammals	<i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Monkey); <i>Felis chaus</i> (LN: Ban Biral; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: Squirrel); <i>Felis viverrina</i> (LN: Malaha biral; EN: Fishing cat); <i>Sus scrofa</i> (LN: Badel; EN: Wild Boar).
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium sps</i> (LN: Banmara; EN: Thoroughwort), <i>Parthenium hysterophorus</i> (LN: Gajar jhar; EN: Famine weed); <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory).
Endemic plant/animal	None

### C. Socio-Economy at Basin

Nearby settlement	Daijee Chowk;50 m from lake; Main Trail: Mahendra Highway-Daijee; 50 m from lake.
Land use	Agriculture (44%); Forest (55%); Grassland (1%).
Demography	Population:27481; Male:12985; Female:14496; HHS:5091; Ethnicity: Brahmin/Chhetri (51.57%); Janajati (38.43%); Dalit (5%); Other (5%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>2000
Traditional production system	None
Traditional water use practices	None
Cultural record	None
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Medicinal plants; Timber
Cultural services	None

### E. Restoration/Management

Structural management	None
Non-structural management	None
Conservation plan	None
Monitoring plan	None.

### F. Tourism information

Few small hotels near lake; Road adjoining the lake; Few visitors; Low tourism Potential.

### G. Lake condition

Degrading.

## 21. Pipermandi Tal

Code: P7-D8-021

Toposheet no: 2880 06B

Date of inventory: July 01, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.72559°N; Lon:80.41042°E; Alt:165 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kanchanpur district; Shankarpur VDC; Ward no.1; Kanjagaon.

Boundary

(Current: Laljhadi Rural Municipality; Ward no. 2)

Core Area: Trail in south and farmland in other directions.

Basin Area: Kanjagaon- Dhangadi trail in south; Kanjagaon trail in east; Kanjagaon ward 2- ward1 trail in west; Field trail in north.

Management responsibility

Shankarpur VDC.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec);  
Rainfall: 1422.7mm/yr

Area

Core Area:0.9862 ha; Avg. Length:100 m; Avg. Width:30 m; Avg. Depth:1.5 m; Max-Min Surface Water Level:2-1 m; Basin Area:100 ha.

Water Volume

Peak Period:6600000 ltr; Dry period:2100000 ltr; Inlet: None; Outlet: None

Water quality

Physiochemical parameter: Temp.:29.5°C, pH:7.9;  
DO:4.2mg/l; Transparency:0.4 m.

Soil feature

Grey color; Sandy Clay loam.

Shocks/vulnerability

Water Volume decrease.

Major aquatic plants

Core Area: None.

Major plants in basin

Shorea robusta (LN: sal; HT: Tr; LU: Tml);  
Saccharumspontanum (LN: Kans; HT: Grass; LU: Fd);  
Imperatacylindrica (LN: Siru; HT: Grass; LU: Fd);  
Eucalyptus alba (LN: Masala; HT: Tr; LU: Tm);  
Zizyphusrugosa (LN: Rukh Bayar; HT: Tr; LU: Med, Fruit),  
Bombaxceiba (LN: Simal; HT: Tr; LU: Tm).

Fish

Clariasbatrachus (LN: Mangur; LU: Meat); Labeorohita (LN: Rohu; LU: Meat), Cirrhinusmrigala (LN: Naini; LU: Meat);  
Catla catla (LN: Vyakur; LU: Meat); Puntios sarona (LN: Kande; LU: Meat); Puntioctico (LN: Bhite; LU: Meat).

Herpetofauna

Microhylaoranata (LN:Byang; EN:Oranate Rice Frog);  
Bufostomaticus (LN:Khatkhyarri Magoba; EN:Assam Toad);

	Kaloulataprobanica (LN:Byaguyo; EN:Srilanka Bullfrog); Euphlyctiscyanophlyctis (LN:Tik- tike Paha; EN:Skittering Frog); Sphaerothecabreviceps (LN:Rane Bhyaguto; EN:Indian Burrowing Frog); Melanochelystrijuga (LN:Kachhuwa; EN; Eastern Black Turtle); Pangshuratactum (LN:Kachhuwa; EN:Indian Roofed Turtle); Xenochrophispiscator (LN:Pani Sarpa; EN:Chequered Keelback Water snake); Amphiesma stolatum (LN:Harara; EN:Buff-stripped Keelback).
Birds	Metopidiusindicus (LN: Lama Aunle; EN: Bronze-winged Jacana); Haliaeetusleucoryphus (LN: Boksi Cheel; EN: Pallas's Fish Eagle); Cerylerudis (LN: Chhirbire Matikore; EN: Pied Kingfisher); Amaurornisphoenicurus (LN: Sim Kukhura; EN: White-breasted Wate rhen); Bubulcus ibis (LN: Bastu Bakulla; EN: Cattle Egreat); Halcyon capensis (LN: Thulo Matikore; EN: Strok-billed Kingfisher); Pavocristatus (LN: Majur; EN: Indian Peafowl); Gallus gallus (LN: Luiche; EN: Red Jungle Fowl).
Mammals	Lepusnigricollis (LN:Ban Kharayo; EN:Indian Hare); Funambulus pennant (LN:Panch Darke Lokharke; EN:Northern Palm Squirrel); Millardiameltada (LN:Makhamali Muso; EN:Common Soft-furred Rat); Bandicotaindica (LN:Thulo Dhande Muso; EN:Greater Bandicot- rat); Hystrixindica (LN:Jure Dumsi, EN:Indian Crested Porcupine) Felisbengalensis (LN:Chari Bagh; EN:Leopard Cat); Canisaureus (LN:Shyal; EN; Golden Jackle); Macacamulatta (LN:Rato Bandar; EN:Rhesus Monkey); Boselaphustragocamelus (LN:Nil Gai; EN:Blue Bull); Axis axis (LN: Chital; EN:Spotted Deer); <i>Sus scrofa</i> (LN:Bandel; EN:Wild Boar).
Invasive alien species	<i>Ipomoea carnea</i> (LN: Besara m; EN: Shrubby Morning Glory). Endemic plant/animal None.

### C. Socio-Economy at Basin

Nearby settlement	Kanjigaon; 50m from lake; Main Trail: Kanjigaon to Dhangadi foot trail; 50m from lake.
Land use	Forestland (30%); Agriculture (60%); Settlement (5%); Others (5%).
Demography	Population:7251; Male:3549; Female:3702; HHs: 1,065; Ethnicity: Brahmin/Chhetri (5.92%); Janajati (91.67%); Dalit (1.83%); Other (0.58%). Major Religion: Hinduism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	Tharu.
Livestock at basin	>1000.
Traditional production system	Irrigation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fish, Irrigation.
Cultural services	None.

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

**F. Tourism information**

No visitors; Few good hotels in Belauri Bazar; Motarable road to BelauriBaza and Belauri Bazar to Dhangadi; Transportation services from Mahendranger to Belauri Bazar or Dhangadi to Belauri Bazar; Needs promotional activities.

**G. Lake condition**

Degrading.

## 22. Puraina Lake (a)

Code: P7-D8-022

Toposheet no: 2880 03C

Date of inventory: May 23, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.55104617°N; Lon:80.83817917°E; Alt:152 masl.  
Geographical position Terai Range.

Administrative feature

FWDR; Kanchanpur district; Daijee V.D. Cs; Ward no. 9; Sisaiya.

Boundary

(Current: Kailari Municipality; Ward no. 1)

Core Area: Forest in all directions.

Management responsibility

Basin Area: Forest and agricultural land

Sisaiya Conservation Committee with the representation of DDC. Wetlands type Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec);  
Rainfall: 1422.7mm/yr

Area

Core Area:2.4 ha; Avg. Length:600 m; Avg. Width:130 m;  
Avg. Depth:3 m; Max-Min Surface Water Level:NA; Basin  
Area:26.8ha.

Water Volume

NA.

Water quality

Physicochemical parameter: Temp.:23oC, pH:5.9;  
Transparency:0.5 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: *Nymphaea stellata* (LN: Nilkamal; EN: Blue lotus;  
HT: Ff; LU: Orn); *Sphagnum nepalensis* (LN: Jhyau; HT: E  
m; LU: none).

Major plants in basin

*Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm, Med);  
*Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Fuel) *Shorea robusta*  
(LN: Sal; HT: Tr; LU: Tm); *Synzigium cumini* (LN: Jamun;  
HT: Tr; LU: Tm, Fr); *Adina cardifolia* (LN: Asna, saanjh; HT:  
Tr; LU: Tm).

Fish

*Cetanolaryngodon idella* (LN: Carp; LU: Meat); *Labeo rohita*  
(LN: Rohu; LU: Meat); *Hypophthalmichthys nobilis* (LN:  
Carp; LU: meat); *Mylopharyngodon piceus* (LN: Kalocarp;  
LU: Meat) *Clarias batrachus* (LN: Mungri; LU: meat).

Herpetofauna

*Bufo melanostictus* (LN: Khasre bhyaguto; EN: Black-spined  
toad); *Calotes versicolor* (LN: Cheparo; EN: Garden Lizard);  
*Hoplobatrachus crassus* (LN: Sirke Paha; EN: Jerdon's bull  
frog); *Amolops marmoratus* (LN: Tite Paha); *Varanus*

	<i>bengalensis</i> (LN: Bhainse; EN: Monitor lizard); <i>Polypedtes maculates</i> (LN: Rukh Bhyaguto; EN: Common Indian tree frog); <i>Lissemys punctata andersoni webb</i> (LN: Putali kachuwa; EN: North Indian flapshell turtle); <i>Python morulus</i> (LN: Ajingar; EN: Asiatic Rock Python)
Birds	<i>Vanellus indicus</i> (LN: huttititau; EN: Red-wattled lapwing); <i>Falco tinnunculus</i> (LN: Baaj; EN: Common Kestrel); <i>Treron pompadora</i> (LN: Haleso; EN: Pompadour Green Pigeon); <i>Turdoides striata</i> (LN: Bhyakur; EN: Jungle Babbler).
Mammals	<i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Monkey); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: Squirrel); <i>Felis viverrina</i> (LN: Malaha biralo; EN: Fishing cat); <i>Sus scrofa</i> . (LN: Badel; EN: Wild Boar); <i>Axis axis</i> (LN: Chittal; EN: spotted deer); <i>Boselaphus tragocamelus</i> (LN: Nilgai; EN: Bluebull). <i>Vulpes bengalensis</i> (LN: Fushre fauro; EN: Bengal Fox)
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium sps</i> (LN: Banmara; EN: Thoroughwort), <i>Parthenium hysterophorus</i> (LN: Gajar jhar; EN: Famine weed); <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed); <i>Xanthium strumarium</i> (LN: Bhide kuro; EN: Cockle bur sheep bar)
Endemic plant/animal	None

### C. Socio-Economy at Basin

Nearby settlement	Sisaiya Gaun; 1 km from lake; Main Trail: Kaluwapur-Sisaiya- Brindaban Forest; 1 km from lake.
Land use	Forest (81%); Grassland (9%); Shrubland (10%).
Demography	Population: 24,347; Male:11407; Female:12940; HHs:4782; Ethnicity: Brahmin/Chhetri (64.08%); Janajati (20.07%); Dalit (15.49%); Other (0.35%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>1000
Traditional production system	None
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Timber.
Cultural services	None

### E. Restoration/Management

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### F. Tourism information

No visitors.

### G. Lake condition

Degrading.

## 23. Puraina Tal (b)

Code: P7-D8-023  
Toposheet no:2880 06A  
Date of inventory: July01, 2016



### A. General Feature

Conservation status	None.
Geographical coordination	Lat:28.65761°N; Lon:80.35902°E; Alt:149 masl. Geographical position Tarai.
Administrative feature	FWDR; Kanchanpur district; Belauri Municipality; Ward no. 8; Burakot. (Current: Belauri Municipality; Ward no. 8)
Boundary	Core Area: Farmland in south, forest in all directions. Basin Area: Gaudi gaon and Beldandichouk in south; Gaudi to Maghgaon trail, and Shukla Phanta Wildlife Reserve boundary in east and north.
Management responsibility	Belauri Municipality.
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec); Rainfall:1422.7mm/yr
Area	Core Area:23 ha; Avg. Length:180 m; Avg. Width:110 m; Avg. Depth:2 m; Max-Min Surface Water Level:3.5-0.5 m; Basin Area:60ha.
Water Volume	Peak Period: 69,300,000ltr; Dry period: 1,800,000 ltr; Inlet: None; Outlet: None
Water quality	Physichemical parameter: Temp.:28.4°C, pH:7.9; DO:3.9mg/l; Transparency:0.5 m.
Soil feature	Black color; Sandy loam texture.
Shocks/vulnerability	Flooding, Invasion of Weed and water volume decreasing.
Major plants in basin	<i>Shorea robusta</i> (LN: sal; HT: Tr; LU: Tml); <i>Saccharumspontanum</i> (LN: Kans; HT: Grass; LU: Fd); <i>Imperatacylindrica</i> (LN: Siru; HT: Grass; LU: Fd); <i>Eucalyptus alba</i> (LN: Masala; HT: Tr; LU: Tm); <i>Zizyphusrugosa</i> (LN: Rukh Bayar; HT: Tr; LU: Med, Fruit), <i>Bomboxceiba</i> (LN: Simal; HT: Tr; LU: Tm).
Fish	<i>Clariasbatrachus</i> (LN: Mangur; LU: Meat); <i>Labeorohita</i> (LN: Rohu; LU: Meat), <i>Cirrhinusmrigala</i> (LN: Naini; LU: Meat); <i>Catla catla</i> (LN: Vyakur; LU: Meat); <i>Puntios sarona</i> (LN: Kande; LU: Meat); <i>Puntiocticto</i> (LN: Bhite; LU: Meat).
Herpetofauna	<i>Crocodiluspalustris</i> (LN:MagarGohi; EN:Magger Crocodile <i>Microhyllaoranata</i> (LN:Byang; EN:Oranate Rice Frog);

	<p>Bufostomaticus (LN:KhatkhyarriMagoba; EN:Assam Toad); Kaloulataprobanica (LN:Byaguyo; EN:Srilanka Bullfrog); Euphlyctiscyanophlyctis (LN:Tik-tike Paha; EN:Skittering Frog); Sphaerothecabreviceps (LN:RaneBhyaguto; EN:Indian Burrowing Frog); Melanochelystrijuga (LN:Kachhuwa; EN: Eastern Black Turtle); Pangshuratactum (LN:Kachhuwa; EN:Indian Roofed Turtle); Xenochrophispiscator (LN:PaniSarpa; EN:ChequeredKeelbackWatersnake); Amphiesma stolatum (LN:Harara; EN:Buff-stripped Keelback).</p>
Birds	<p>Metopidiusindicus (LN: Lama Aunle; EN: Bronze-winged Jacana); Haliaeetusleucoryphus (LN: BoksiCheel; EN: Pallas's Fish Eagle); Cerylerudis (LN: ChhirbireMatikore; EN: Pied Kingfisher); Amaurornisphoenicurus (LN: SimKukhura; EN: White-breasted Waterhen); Bubulcus ibis (LN: BastuBakulla; EN: Cattle Egreat); Halcyon capensis (LN: ThuloMatikore; EN: Strok-billed Kingfisher); Pavocristatus (LN: Majur; EN: Indian Peafowl); Gallus gallus (LN: Luiche; EN: Red Jungle Fowl).</p>
Mammals	<p>Lepusnigricollis (LN:Ban Kharayo; EN:Indian Hare); Funambulus pennant (LN:PanchDarkeLokharke; EN:Northern Palm Squirrel); Millardiameltada (LN:MakhamaliMuso; EN:Common Soft-furred Rat); Bandicotaindica (LN:ThuloDhandeMuso; EN:Greater Bandicot- rat); Hystrixindica (LN:Jure Dumsi, EN:Indian Crested Porcupine) Felisbengalensis (LN:Chari Bagh; EN:Leopard Cat); Canisaureus (LN:Shyal; EN: Golden Jackle); Macacamulatta (LN:Rato Bandar; EN:Rhesus Monkey); Boselaphustragocamelus (LN:Nil Gai; EN:Blue Bull); Axis axis (LN: Chital; EN:Spotted Deer); <i>Sus scrofa</i> (LN:Bandel; EN:Wild Boar).</p>
Invasive alien species	<p><i>Ipomoea carnea</i> (LN: Besara m; EN: Shrubby Morning Glory). Endemic plant/animal None.</p>

### C. Socio-Economy at Basin

Nearby settlement	Burakot; 50m from lake; Main Trail: Belauri to Khajuriya; 150m from lake.
Land use	Forestland (10%); Agriculture (75%); Settlement (10%); Others (5%).
Demography	Population: 13,727; Male: 6,461; Female: 7,266; HHs: 2,175; Ethnicity: Brahmin/Chhetri (32.35%); Janajati (57.91%); Dalit (9.58%); Other (0.16%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	Durga Temple.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fish and Irrigation.
Cultural services	None.



### **E. Restoration/Management**

Structural management	None.
Non-structural management	None.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

>200 visitors/year; Few good hotels in Belauri Bazar which is 1km from lake; Motarable road to Burakott; Transportation services from Kaluwapur to Belauri Bazar; Needs promotional activities.

### **G. Lake condition**

Degrading.

## 24. Pyara Lake

Code: P7-D8-024

Toposheet no: 2880 06B

Date of inventory: May 29, 2016



### A. General Feature

Conservation status

None; Transboundary Lake.

Geographical coordination

Lat:28.63664794°N; Lon:80.42440838°E; Alt:169 masl.  
Geographical position Terai Range.

Administrative feature

FWDR; Kanchanpur district; Punarbas Municipality; Ward-1;  
Punarbas.

Boundary

(Current: Punarbas Municipality; Ward no. 1)

Core Area: Forest in east, Agricultural Land in North,  
Grassland of India in west and south direction.

Basin Area: Forest in all directions.

Management responsibility

Pyara Conservation Committee with the representation of  
DDC.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec);  
Rainfall: 1422.7mm/yr

Area

Core Area:0.8 ha; Avg. Length:800 m; Avg. Width:80 m;  
Avg. Depth:4 m; Max-Min Surface Water Level:NA; Basin  
Area:32.3 ha.

Water Volume

NA.

Water quality

Physicochemical parameter: Temp.:24°C, pH:5.7;  
Transparency:0.5 m.

Soil feature

Grey color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: Hydrilla sps (LN: Panijhyau; HT: S m; LU: None);  
Azolla sps (LN: Panijhyau; HT: Ff; LU: None); Typha  
angustifolia (LN: Pater; HT: Hr; LU: None); *Sphagnum  
nepalensis* (LN: Jhyau; HT: E m; LU: none).

Major plants in basin

*Acacia catechu* (LN: Khayar; HT: Tr; LU: Tm, Med);  
*Dalbergia sisoo* (LN: Sisoo; HT: Tr; LU: Fuel) *Shorea robusta*  
(LN: Sal; HT: Tr; LU: Tm); Synzigium cumini (LN: Jamun;  
HT: Tr; LU: Tm, Fr); Adina cardifolia (LN: Asna, saanjh; HT:  
Tr; LU: Tm); *Embllica officinalis* (LN: Amala; HT: Tr, LU:  
Med, Fruit); Oroxylum indicum (LN: Tatelo; HT: Tr; LU:  
Med).

Fish

*Cetanolaryngodon idella* (LN: Carp; LU: Meat); Labeo rohita  
(LN: Rohu; LU: Meat); Hypophthalmichthys nobilis (LN:  
Carp; LU: meat)

Herpetofauna	Bungarus sps (LN: Karet; EN: Common Krait); <i>Bufo melanostictus</i> (LN: Khasre bhyaguto; EN: Black-spined toad); <i>Calotes versicolor</i> (LN: Cheparo; EN: Garden Lizard); <i>Hoplobatrachus crassus</i> (LN: Sirke Paha; EN: Jerdon's bull frog); <i>Amolops marmoratus</i> (LN: Tite Paha); <i>Varanus bengalensis</i> (LN: Bhainse; EN: Monitor lizard)
Birds	<i>Eudynamis scolopacea</i> (LN: Koili; EN: Asian Koel); <i>Psittacula</i> sps (LN: Suga; EN: Parrot); <i>Eupupa epops</i> (LN: Fapre; EN: Hoopoe); <i>Francolinus francolinus</i> (LN: Kalotitra; EN: Black Francolin); <i>Gallusgallus</i> (LN: Bankukhura; EN: Red Jungle fowl); <i>Casmerodius albus</i> (EN: Great Egret; EN: Thulose to Bakulla); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked Tit); <i>Vanellusindicus</i> (LN: huttititau; EN: Red-wattled lapwing); <i>Falcotinnunculus</i> (LN: Baaj; EN: Common Kestrel).
Mammals	<i>Herpestes</i> sps (LN: Nyarimusa; EN: Mongoose); <i>Canis aureus</i> (LN: Syal; EN: Golden jackal); <i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Monkey); <i>Felis chaus</i> (LN: Ban Biral; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: Squirrel); <i>Felis viverrina</i> (LN: Malaha biral; EN: Fishing cat); <i>Sus scrofa</i> . (LN: Badel; EN: Wild Boar).
Invasive alien species	<i>Mikania micrantha</i> (LN: Lahare Banmara; EN: Bitter Vien); <i>Eupatorium</i> sp (LN: Banmara; EN: Thoroughwort); <i>Eichhornia crasippes</i> (LN: Jalkhumbi; EN: Water hyacinth)
Endemic plant/animal	None

### C. Socio-Economy at Basin

Nearby settlement	Tribhuvan Basti; 1 km from lake; Main Trail: Belauri road; 10 km from lake.
Land use	Forestland (6%); Agriculture (57%); Shrubland (36%); Grassland (1%).
Demography	Population: 14,168; Male: 6,482; Female: 7,686; HHs: 2,724; Ethnicity: Brahmin/Chhetri (53.21%); Janajati (44.34%); Dalit (2.22%); Other (0.22%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>500.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Timber; Medicinal.
Cultural services	None

### E. Restoration/Management

Structural management	None.
Non-structural management	None.

Conservation plan

None

Monitoring plan

None.

**F. Tourism information**

local visitor; Few hotels and road to Tribhuvan basti;  
Moderate tourism potential; Needs promotional activities.

**G. Lake condition**

Degrading.

## 25. Shova Tal

Code: P7-D8-025

Toposheet no:2880 02C

Date of inventory: June 29, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:28.75702°N; Lon:80.36238°E; Alt:165 masl.  
Geographical position Tarai.

Administrative feature

FWDR; Kanchanpur district; BelauriMunicipality; Ward no.7; Chandpur.

Boundary

(Current: Belauri Municipality; Ward no. 5)

Core Area: Paddy field in east and south, Sal forest in west, Human settlement and paddy field in north.

Basin Area: Jai to Balami trail in west, Dungagaon in east, Kurkaiyagaon in south, Chandpur to Ramnagar road in north.

Management responsibility

Shova Tal Machha Palan Samitee.

Wetlands type

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec);  
Rainfall: 1422.7mm/yr

Area

Core Area:25 ha; Avg. Length:190 m; Avg. Width:70 m;  
Avg. Depth:2 m; Max-Min Surface Water Level:3-1 m; Basin  
Area:250 ha.

Water Volume

Peak Period: 39,900,000 ltr; Dry period: 60,000,000 ltr;  
Inlet: None; Outlet: None.

Water quality

Physiochemical parameter: Temp.:30.2°C, pH:7.6; DO:3.5  
mg/l; Transparency:0.4 m.

Soil feature

Red color; Clay loam.

Shocks/vulnerability

WaterHycianth.

Major aquatic plants

Core Area: None.

Major plants in basin

*Shorea robusta* (LN: Sal; HT: Tr; LU: Tml);  
*Saccharumspontanum* (LN: Kans; HT: Grass; LU: Fd);  
*Imperatacylindrica* (LN: Siru; HT: Grass; LU: Fd);  
*Eucalyptus alba* (LN: Masala; HT: Tr; LU: Tm);  
*Zizyphusrugosa* (LN: Rukh Bayar; HT: Tr; LU: Med, Fruit),  
*Bombaxceiba* (LN: Simal; HT: Tr; LU: Tm).

Fish

*Clariasbatrachus* (LN: Mangur; LU: Meat); *Labeorohita* (LN: Rohu; LU: Meat), *Cirrhinusmrigala* (LN: Naini; LU: Meat); *Catla catla* (LN: Vyakur; LU: Meat); *Puntios saroni* (LN: Kande; LU: Meat); *Puntiocticto* (LN: Bhite; LU: Meat).

Herpetofauna

*Microhylaoranata* (LN:Byang; EN:Oranate Rice Frog);  
*Bufoostomaticus* (LN:Khatkhyarri Magoba; EN:Assam Toad);

	<p>Kaloulataprobanica (LN:Byaguyo; EN:Srilanka Bullfrog); Euphlyctiscyanophlyctis (LN:Tik-tike Paha; EN:Skittering Frog); Sphaerothecabreviceps (LN:Rane Bhyaguto; EN:Indian Burrowing Frog); Melanochelystrijuga (LN:Kachhuwa; EN: Eastern Black Turtle); Pangshuratactum (LN:Kachhuwa; EN:Indian Roofed Turtle); Xenochrophispiscator (LN:Pani Sarpa; EN:Chequered Keelback Water snake); Amphiesma stolatum (LN:Harara; EN:Buff-stripped Keelback).</p>
Birds	<p>Metopidiusindicus (LN: Lama Aunle; EN: Bronze-winged Jacana); Haliaeetusleucoryphus (LN: BoksiCheel; EN: Pallas's Fish Eagle); Cerylerudis (LN: Chhirbire Matikore; EN: Pied Kingfisher); Amaurornisphoenicurus (LN: Sim Kukhura; EN: White-breasted Water hen); Bubulcus ibis (LN: BastuBakulla; EN: Cattle Egreat); Halcyon capensis (LN: ThuloMatikore; EN: Strok-billed Kingfisher); Pavocristatus (LN: Majur; EN: Indian Peafowl); Gallus gallus (LN: Luiche; EN: Red Jungle Fowl).</p>
Mammals	<p>Lepusnigricollis (LN:Ban Kharayo; EN:Indian Hare); Funambulus pennant (LN:Panch Darke Lokharke; EN:Northern Palm Squirrel); Millardiameltada (LN:Makhamali Muso; EN:Common Soft-furred Rat); Bandicotaindica (LN:Thulo Dhande Muso; EN:Greater Bandicot-rat); Hystrixindica (LN:Jure Dumsi, EN:Indian Crested Porcupine) Felisbengalensis (LN:Chari Bagh; EN:Leopard Cat); Canisaureus (LN:Shyal; EN: Golden Jackle); Macacamulatta (LN:Rato Bandar; EN:Rhesus Monkey); Boselaphustragocamelus (LN:Nil Gai; EN:Blue Bull); Axis axis (LN: Chital; EN:Spotted Deer); <i>Sus scrofa</i> (LN:Bandel; EN:Wild Boar).</p>
Invasive alien species	<i>Ipomoea carnea</i> (LN: Besara m; EN: Shrubby Morning Glory)
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Chandpur; 50 m from lake; Main Trail: Kaluwapurto Belauri Bazar; 0.5km from lake.
Land use	Forestland (60%); Agriculture (30%); Settlement (5%); Others (5%).
Demography	Population: 21,387; Male: 10,223; Female: 11,164; HHs: 3,554; Ethnicity: Brahmin/Chhetri (29.49%); Janajati (65.89%); Dalit (3.70%); Other (0.92%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	Tharu.
Livestock at basin	>2000.
Traditional production system	Fish farming and irrigation.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fish, recreation.
Cultural services	None.

### **E. Restoration/Management**

Structural management	Boring by GTZ.
Non-structural management	Restriction of livestock but not hard implementation.
Conservation plan	None.
Monitoring plan	None.

### **F. Tourism information**

>1000 visitors (internal tourist)/year; Few good hotels in Belauri Bazar or Kaluwapur; Motarable road to Belauri Bazar; Transportation services from Mahendranganar to Belauri Bazar; Needs promotional activities.

### **G. Lake condition**

Degrading.

## 26. Siddha Sarobar Banda

Code: P7-D8-026

Toposheet no: 2980 13D

Date of inventory: June 27, 2016



### A. General Feature

Conservation status

None.

Geographical coordination

Lat:29.01629°N; Lon:80.24412°E; Alt:380 masl.  
Geographical position Churiya hills.

Administrative feature

FWDR; Kanchanpurdistrict; Betkot Municipality; Ward no. 6;  
Siddha Sarobar.

Boundary

(Current: Bedkot Municipality; Ward no. 6)

Core Area: Forest in all directions.

Management responsibility

Basin Area: ChureChaunkham forest in east; Chunepani forest in west; Shikharpani forest in north and Ganesh community forest in south.

Wetlands type

Siddha Sarobar Bramhakunda paryatakiya chhetra dharmic ban samrakshansamuha, Betkot.

Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature

Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec);  
Rainfall: 1422.7mm/yr

Area

Core Area:21.059 ha; Avg. Length:100 m; Avg. Width:50 m; Avg. Depth:5 m; Max-Min Surface Water Level:7-3 m; Basin Area:20 ha.

Water Volume

Peak Period: 35,000,000 ltr; Dry period: 10,800,000 ltr;  
Inlet: ChaukhamKholra and Chunepanikhola; Outlet: Banda Talnikaskholra.

Water quality

Physiochemical parameter: Temp.:30.6°C, pH:8; DO:3.13;  
Transparency:0.9 m.

Soil feature

Black color; Sandy loam texture.

Shocks/vulnerability

Water volume decreasing.

Major aquatic plants

Core Area: Pistiastratiotes (LN: Kumbhika; EN: Water Lettuce; HT: Ff); Typhaangustifolia (LN: Pater; HT: E m; LU: Fd).

Major plants in basin

Syzygiumcumini (LN: jamun; HT:TR; LU: Tm, Md); Terminalialalata (LN: Asna; HT: Tr; LU: Tm); Semecarpusanacardium (LN: Bhalayo; HT: Sh; LU: Me); Mallotusphilippensis (LN: Sindhure; HT: Hr; LU: Fd); Osbeckia stellate (LN: Asare; HT: Sh, LU: Md, Leaf); Dioscoreabulbifera (LN: Gittha; HT: Cl; LU: Fd, fruit); Cassia fistula (LN: Rajbriksha; HT: Tr; LU: Med, pod); Bauhinia vahlii (LN: Bhorla; HT: Cl, LU: Bed.).



Fish	None.
Herpetofauna	Microhyllaoranata (LN:Byang; EN:Oranate Rice Frog); Bufostomaticus (LN:KhatkhyarriMagoba; EN:Assam Toad); Kaloulataprobanica (LN:Byaguyo; EN:Srilanka Bullfrog); Euphlyctiscyanophlyctis (LN:Tik-tike Paha; EN:Skitting Frog); Sphaerothecabreviceps (LN:RaneBhyaguto; EN:Indian Burrowing Frog); Melanochelystrijuga (LN:Kachhuwa; EN; Eastern Black Turtle); Pangshuratactum (LN:Kachhuwa; EN:Indian Roofed Turtle); Xenochrophispiscator (LN:PaniSarpa; EN:ChequeredKeelbackWatersnake); Amphiesma stolatum (LN:Harara; EN:Buff-stripped Keelback).
Birds	Haliaeetusleucoryphus (LN: BoksiCheel; EN: Pallas's Fish Eagle); Cerylerudis (LN: ChhirbireMatikore; EN: Pied Kingfisher); Amauornisphoenicurus (LN: SimKukhura; EN: White-breasted Waterhen); Bubulcus ibis (LN: BastuBakulla; EN: Cattle Egreat); Halcyon capensis (LN: ThuloMatikore; EN: Strok-billed Kingfisher); Pavocristatus (LN: Majur; EN: Indian Peafowl); Gallus gallus (LN: Luiche; EN: Red Jungle Fowl).
Mammals	Lepusnigricollis (LN:Ban Kharayo; EN:Indian Hare); Funambulus pennant (LN:PanchDarkeLokharke; EN:Northern Palm Squirrel); Millardiameltada (LN:MakhamaliMusso; EN:Common Soft-furred Rat); Bandicotaindica (LN:ThuloDhandeMusso; EN:Greater Bandicot- rat); Hystrixindica (LN:Jure Dumsi, EN:Indian Crested Porcupine) Felisbengalensis (LN:Chari Bagh; EN:Leopard Cat); Canisaureus (LN:Shyal; EN; Golden Jackle); Macacamulatta (LN:Rato Bandar; EN:Rhesus Monkey); Boselaphustragocamelus (LN:Nil Gai; EN:Blue Bull); Axis axis (LN: Chital; EN:Spotted Deer); <i>Sus scrofa</i> (LN:Bandel; EN:Wild Boar).
Invasive alien species	<i>Ipomoea carnea</i> (LN: Besara m; EN: Shrubby Morning Glory).
Endemic plant/animal	None.

### C. Socio-Economy at Basin

Nearby settlement	Muchhepani; 3km from lake; Main Trail: Daiji (Kanchanpur) to Jogbudha (Dadeldhura); 250m from lake and Daiji to SidhhaSarobar Banda Tal; Road: very close (10m).
Land use	Forestland (90%); Grassland (5%); Others (5%).
Demography	Population: 21,998; Male: 10,507; Female: 11,491; HHs: 4,128; Ethnicity: Brahmin/Chhetri (68.46%); Janajati (19.81%); Dalit (10.91%); Other (0.82%). Major Religion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	>2500.
Traditional production system	None.
Traditional water use practices	Religious/ritual pond.
Cultural record	Religious site; Shiva Mandir at the western part at lake.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services  
Cultural services

Fodder; Medicinal plants, Timber.  
Aesthetic; Religious (Mela at Ramnawami and Shivaratri).

### **E. Restoration/Management**

Structural management

Dam at outlet and inlet; Support by Soil Conservation Kanchanpur (2073 BS:30 Gabbin nets for dam) and Soil Conservation Division Dhangadhi (2072BS; 30 Gabbin nets for dam). Source: Secretary of Management committee.

Non-structural management  
Conservation plan  
Monitoring plan

Formal restriction of livestock; Swimming and fishing.  
5 years planning.  
None.

### **F. Tourism information**

>2,500 visitors/yr (average); Good Hotels in Mahendranagar; Motorable road from Daijito Mathillo Gauji; Tourism potential high. Needs promotional activities.

### **G. Lake condition**

Degrading.

## 27. Sundeu Lake

Code: P7-D8-027

Toposheet no: 2880 02B

Date of inventory: May 27, 2016



### A. General Feature

Conservation status	None
Geographical coordination	Lat:28.99804215°N; Lon:80.40213566°E; Alt:456 masl. Geographical position Terai Range.
Administrative feature	FWDR; Kanchanpur district; Jhalari Municipality; Ward no. 4; Sundeu. (Current: Shuklaphanta Municipality; Ward no. 8)
Boundary	Core Area: Forest in all directions. Basin Area: Forest in all directions.
Management responsibility	None
Wetlands type	Fresh water/natural; Lacustrine; Permanent.

### B. Ecological Feature

Climatic feature	Avg. Max: Temp:30.5°C (Jun/July); Avg. Min:17.5°C (Dec); Rainfall: 1422.7mm/yr
Area	Core Area:0.8 ha; Avg. Length:400 m; Avg. Width:200 m; Avg. Depth:5 m; Max-Min Surface Water Level:NA; Basin Area:11.1 ha.
Water Volume	NA.
Water quality	Physicochemical parameter: Temp.:24°C, pH:6.0; Electric conductivity: N.A. Transparency:0.5 m.
Soil feature	Grey color; Sandy loam texture.
Shocks/vulnerability	Water volume decreasing.
Major aquatic plants	Core Area: <i>Nymphaea stellata</i> (LN: Nilkamal; EN: Blue lotus; HT: Ff; LU: Orn); <i>Sphagnum nepalensis</i> (LN: Jhyau; HT: E m; LU: none).
Major plants in basin	<i>Acacia catechu</i> (LN: Khayar; HT: Tr; LU: Tm, Med); <i>Dalbergia sisoo</i> (LN: Sisoo; Ht: Tr; LU: Fuel) <i>Shorea robusta</i> (LN: Sal; HT: Tr; LU: Tm); <i>Embllica officinalis</i> ((LN: Amala; HT: Tr, LU: Med, Fruit)
Fish	<i>Cetanolaryngodon idella</i> (LN: Carp; LU: Meat); <i>Carassius carassius</i> (LN: Ratomachha; LU: Meat).
Herpetofauna	<i>Bufo melanostictus</i> (LN: Khasre bhyaguto; EN: Black-spined toad); <i>Calotes versicolor</i> (LN: Cheparo; EN: Garden Lizard) <i>Varanus bengalensis</i> (LN: Bhainse; EN: Monitor lizard); <i>Polypedtes maculates</i> (LN: Rukh Bhyaguto; EN: Common Indian tree frog)
Birds	<i>Casmerodius albus</i> (EN: Great Egret; EN: Thulose to Bakulla); <i>Halcyon pileata</i> (LN: Fisto; EN: Yellow-cheeked

	Tit); <i>Vanellusindicus</i> (LN: Huttititau; EN: Red-watteled lapwing); <i>Falcotinnunculus</i> (LN: Baaj; EN: Common Kestrel); <i>Treron pompadora</i> (LN: Haleso; EN: Pompadour Green Pigeon).
Mammals	<i>Felis bengalensis</i> (LN: Charibagh; EN: Leopard Cat); <i>Lutra lutra</i> (LN: Oont; EN: Common Otter); <i>Macaca mulatta</i> (LN: Bandar; EN: Rhesus Monkey); <i>Felis chaus</i> (LN: Ban Biralo; EN: Jungle Cat); <i>Funambulus pennanti</i> (LN: Lokharke; EN: Squirrel); <i>Felis viverrina</i> (LN: Malaha biralo; EN: Fishing cat); <i>Sus scrofa</i> (LN: Badel; EN: Wild Boar)
Invasive alien species	<i>Lantana camara</i> (LN: Maleria; EN: Tickberry); <i>Eupatorium sps</i> (LN: Banmara; EN: Thoroughwort); <i>Parthenium hysterophorus</i> (LN: Gajar jhar; EN: Famine weed); <i>Ipomoea carnea</i> (LN: Besara m; EN: Pink morning glory); <i>Ageratina adenophora</i> (LN: Lahare banmara; EN: Crofton weed)
Endemic plant/animal	None

### C. Socio-Economy at Basin

Nearby settlement	Sisaiya Gaun; 15 km from lake; Main Trail: Mahendra highway; 15 km from lake.
Land use	Forestland (100%).
Demography	Population: 24,347; Male:11407; Female:12940; HHS:4782; Ethnicity: Brahmin/Chhetri (64.08%); Janajati (20.07%); Dalit (15.49%)Other (0.35%). MajorReligion: Hinduism/Buddhism (CBS 2012).
Jurisdiction/ownership	State.
Wetlands dependent community	None.
Livestock at basin	None.
Traditional production system	None.
Traditional water use practices	None.
Cultural record	None.
Genesis/origin of lake	None.

### D. Ecosystem Goods/Services

Provisional services	Fodder; Timber.
Cultural services	Religious

### E. Restoration/Management

Structural management	None
Non-structural management	None
Conservation plan	None
Monitoring plan	None.

### F. Tourism information

No visitors, No hotels at the lake site; No tourism potential

### G. Lake condition

Degrading.





Government of Nepal  
Ministry of Forests and Environment  
National Lake Conservation Development Committee  
<https://www.mofe.gov.np>.

Technical Edit and Publication Support

