Draft

Strengthening Capacity for Macroeconomic Analysis

Project Report

NEPAL

ADB TA: 7165
(Component A)

Government of Nepal
National Planning Commission
Central Bureau of Statistics
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Acronyms

ADB	Asian Development Bank
BOK	Bank of Korea
CBS	Central Bureau of Statistics
CPI	Consumer Price Index
FISIM	Financial Intermediation Services Indirectly Measured
GDP	Gross Domestic Product
GVA	Gross Value Added
GWH	Giga Watt Hours
IC	Intermediate Consumption
ISIC	International Standards Industrial Classification
KUKL	Kathmandu Upatyaka Khanepani Limited
KW	Kilo Watt
LPG	Liquid Petroleum Gas
MDG	Millennium Development Goals
MIS	Management Information System
MOAC	Ministry of Agriculture and Cooperative
MPI	Manufacturing Production Index
NA	National Accounts
NEA	Nepal Electricity Authority
NLSS	Nepal Living Standards Survey
NPC	National Planning Commission
NRB	Nepal Rastra Bank
NRM	Nepal Resident Mission
NSCA	National Sample Census of Agriculture
NSEDB	National Social and Economic Development Board
NSIC	Nepal Standards Industrial Classification
NWSC	Ne pal Water Supply Corporation
PCOs	Public Call Offices
QGDP	Quarterly Gross Domestic Product
QMPI	Quarterly Manufacturing Production Index
QNA	Quarterly National Accounts
SNA	System of National Accounts
TA	Technical assistance
VAT	Value Added Tax
WIP	Work in progress
WPI	Wholesale Price Index

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1. INTRODUCTION

Lack of appropriate policy analysis tools and an underdeveloped statistical system have been the major cause for weak institutional capacity for economic analysis in Nepal. Nepal thus far has been publishing National income accounts on annual basis. However, data relating to some sectors of the economy are available at higher frequency of months and quarters. Researchers using time series techniques in their analysis are facing problem due to dearth of high frequency data in real sectors. The usual approaches which have been employed in overcoming this problem are: (i) use of a proxy variable for gross domestic product (GDP), (ii) the econometric techniques to convert annual data into quarterly data, and (iii) estimation of quarterly data from raw data.

The Central Bureau of Statistics (CBS) does not have adequate resources to improve the data sources. At the time of conceptualization of this Technical Assistance (TA), estimates of output, intermediate consumption, GDP, final consumption expenditure of households and government, savings, capital formation, compensation of employees, disposable income, etc. were being compiled. The instrument for data collection consisted of compilation from the different sectors and estimation was done by CBS. Compilation of Balance of Payments is done by NRB on the basis of its official record.

2. PROJECT DESCRIPTION

Quarterly national accounts estimates are essential for the policy makers and general users because of its inherent capacity to measure business cycles quickly than the annual accounts. They are also equally critical for monitoring poverty and millennium development goals (MDG). Most of the countries of the region have already initiated the compilation of quarterly GDP on a regular basis. It had become imperative for the CBS to take necessary initiative to start compiling quarterly national accounts estimates on a regular basis.

At the request of Nepal Government, the Asian Development Bank (ADB) mission visited the country during June16-27, 2008. The objectives of the mission were to review the QNA development prospect in the country and to determine a plan of action for completing development of a QNA series at constant prices. ADB also undertook a Fact-Finding-Mission during July 7-25, 2008 to gather input from relevant agencies/stakeholders for designing the TA for Strengthening Capacity for Macroeconomic Analysis. On 4 November 2008, the ADB approved the TA-Strengthening Capacity for Macroeconomic Analysis to the Government of Nepal. The TA is provided entirely as a grant and is financed by the ADB's Special Fund.

Objective of the TA

The overall objective of the TA (component A) is to strengthen the CBS in national account estimates and establish a system of Quarterly National Accounts. To achieve this overall objective, the TA is supporting the CBS to realize the following specific objectives:

i) to assist in developing a system of compiling quarterly national accounts; and

ii) develop macroeconomic tools for short-to-medium term forecasting and policy analysis

TA Scope

. The following components are included in the TA:

a. Provision of external and domestic consultants to assist CBS in identifying data gaps and sources of data, developing systems of quarterly national accounts compilations;

b. Provide support to implement horticulture and other selected relevant surveys to improve ANA and to benchmark QNA data for national accounts estimates as well as in organizing workshops for updating/benchmark data for national accounts estimate;

c. Organizing a short-term in-country training program in the area of quarterly national accounts statistics for central and regional staff for enhancing their technical skills;

d. Short-term training and apprenticeship programs for the CBS staff to learn from the experiences of statistically more developed countries of the region; and

d. Provision of necessary computers and related equipment for the National Accounts Division of the CBS.

Cost Estimates and Financing Plan

The total cost of the proposed TA (component A) amounts to $469,400 of which ADB would provide $404,400. The government will add a counterpart fund amounting to $65,000 in local currency. ADB's TA will finance the services of international and domestic consultants, equipment, in providing short-term training, both overseas and local, to the CBS

Implementation Arrangements

The Project was initially to be implemented over a period of 24 months from November 2008 to October 2010. However, it started only from August 2009 and was extended twice. First it was extended till June 2011 and then finally till August 2011.

CBS is the executing agency for component A of the TA. The executing agency has assigned the National Accounts Section, the responsibility for coordinating with the Nepal Resident Mission (NRM), South Asia Regional Department of the Economics and Research Department of ADB, as well as for day to day project implementation, disbursement of funds, supervision of the work of consultants and review their reports.

A steering committee, comprising of representatives from relevant organizations, has been formed with the Member NPC, Economic Analysis, as the chair and DDG, Economic Statistics Division, CBS as the member secretary. A technical committee to provide technical guidance has also been formed.

Project Outputs

Nepal has initiated the process of preparing quarterly figures of GDP and their sub - sectors for years 2004/05 onward.

The purpose of this exercise is to come up with the quarterly estimates of GDP and their sub-sectors for the period 2004/05 to 2010/11. Attempt has been made to quarterise the GDP at constant prices of 2000/01 by using maximum available data on different sub-sectors of the economy.

The approach adopted in the quarterization is the best available in the prevailing situation. It is based on maximum available information about accounting items of GDP and some realistic assumptions. CBS undertook number of surveys in order to establish seasonality baseline for the quarterly gross domestic product (QGDP). Questionnaires were developed and small scale surveys/studies undertaken with the support of the CBS district level staff. The list of surveys conducted and the questionnaire developed are in Annex 2. A large scale vegetable survey was also undertaken to support the QGDP and mitigate the dearth of data in the sector. The questionnaire used for this survey is given in Annex 3.

The major tasks accomplished under the project are (i) Quarterization of Past Series, (ii) Benchmarking, and (iii) Seasonality Analysis. This exercise has been undertaken for the period of year 2004/05 to 2010/2011. However, due to unavailability of data some sectors quarterzation is carried out to fiscal years 2008/09 and 2009/10. This shortcoming

will be taking care of at the time of estimating the quarterly estimates. Government of Nepal has plans to initiate publication of the quarterzation the past year and the estimate for the current year quarters from 2011/12.

Under this TA on the job trainings were imparted to the staffs of the National Accounts Section by the international and national consultants. Some staffs were also sent to the National Social and Economic Development Board (NSEDB) of Thailand and the Bank of Korea (BOK), South Korea for training in the field of national accounts. Two seminars one covering thematic area was held in CBS and another on System of Quarterly National Accounts in Pokhara with participation of concerned and other related stakeholders.

Annex 1 presents the Quarterly Gross Value Added compilation methodology. The tables in the compilation methodology covers the following aspects for different sectors: coverage, indicator collected, data sources, derived indicators, quarterly methodology and annual methodology .The following tables are constructed in way which serves as a QNA manual and methodology of data source for Nepal to be used as a guidebook for the users and compilers of national accounts. CBS after the inception of QGDP in its annual program shall follow the methodology and assumptions suggested by the TA. However, revision and updation of the methodology being a continuous process, CBS shall continue to improve upon the foundation laid by the project.

Annex 1

Quarterly Gross Value added Compilation Methodology

ISIC Category A: Agriculture and Forestry

	Agriculture	Livestock
Coverage	This subsector covers the activities of growing cereals, vegetables, horticultural andnursery products, fruit, nuts, beverage and spice crops.	It covers the activities such as domestic animal farming/husbandry, dairy farming, and production of other animals' product.
Indicator collected	Monthly cost of production of selected commodities for a whole agriculture year which have significant contribution on agriculture GVA. Cost categories: ploughing , seeds, fertilizers, irrigation, planting, weeding and digging, pesticides, cutting crops, harvesting etc.	The quarterly distribution of the livestock products have been collected for various products like: buffaloes' meat, sheep meat, milk of cow and chauri, pig meat, wool, eggs, hides and skin etc.
Data sources	CBS study on cost of production, 2008	CBS Study,2010/Department of Livestock/ Experts opinion
Derived indicators	Quarterly cost profile (weighted): It consists of wages/compensation of employee plus the cost of purchase of goods (seeds, fertilizers etc) and services (irrigation etc). It excludes the cost of capital purchase.	Quarterly percentage distribution of production.
Quarterly methodology	Taking work- in-progress (WIP) into consideration in agriculture is important. For this reason cost profile method has been adopted. It takes care of WIP indirectly through cost involved. Quarterly cost profiles of fifteen commodities are prepared. Based on these profiles published value added estimates are quaterized. To avoid the step problem Proportional Denton Method has been applied.	Derived indicators are taken as the seasonal indicators to assess the seasonal variations. These indicators are applied to the published annual estimates for quarterization of gross value added originated from livestock activities.
Annual methodology	The National Sample Census of Agriculture(NSCA) 2001 provides data only on area of the individual crops. To compute production, the average yield per crop per hectare from Ministry of Agriculture and	• The quantities of production of buffaloes' meat, sheep's meat, goat's meat, milk of cow, milk of buffaloes, milk of chaunri, and other animals are taken from the annual report "Statistical Information on Nepalese Agriculture (MOAC)".

	Cooperative(MOAC) is applied to the data on area. Output is generally valued at producer's prices (farm gate prices). However, because available prices are at retail price, these are adjusted to derive these to producer's prices. Value of Crops Harvested / Value of Crops Produced including value of crops for own consumption LESS: Losses at the time of harvesting (wastage) gives the value of gross output. Intermediate Consumption for agriculture in general refers to the costs of goods and services used during the process of production in one period of account. This includes costs of seed, manure, fertilizer, plant protection materials, human labour, bullock labour, tractor use, pump set use, and interest paid. It also includes depreciation; repair and maintenance cost of farm equipment. Selected input costs such as fertilizer and pesticides have been collected from NSCA, 2001/02.This is supplemented by the annual statistical report published by MOAC.	• Unit price of milk, meat and chicken are taken from Agricultural Marketing Information Bulletin (Special Issue). • In some cases if price be not available for some products for estimation,it is extrapolated by the help of CPI And WPI of Nepal Rastra Bank • Number of cattle(calculated by subtracting number of milking cow from the total number of cattle given in the report of MOAC) • Number of buffaloes(calculated by subtracting number of milking buffaloes from the total number of buffaloes given in the report of MOAC) • Number of Yak/ Nak /Chaunri for 2001/02 is taken from NSCA report & it is extrapolated for other years. • Number of sheep, goat, laying hen, laying duck, fowl (deducting the number of laying hen) & duck (deducting the number of laying duck) is taken from the Statistical Information on Nepalese Agriculture (MOAC) • Quantities of fertilizer production by each small headed animal, big headed animal and poultry per day are estimated to be 0.25 kg; 5 kg and 0.02 kg respectively. Annual fertilizer production is estimated by multiplying total quantity of fertilizer by 365. This annual fertilizer production is multiplied by the price per unit of the concerned year gives the value Gross output. • Estimation of the intermediate consumption of live stock products is done at the disaggregated level from NLSS survey report and report of agriculture marketing published by Department of Agriculture. The total sum of IC is calculated by adding all individual IC.

ISIC Category A: Agriculture and Forestry

	Forestry
Coverage	Forestry industry covers the following activities: • cultivating of trees in forests • production of timber and firewood • hunting activities • farming of herbs and wild plants
Indicator collected	Volume and price of the timber and firewood
Data sources	Department of Forest
Derived indicators	Total supply of wood
Quarterly methodology	Supply of wood is taken as the indicator to distribute the annual estimates quarterly.
Annual methodology	▪ Data on quantity of firewood, medicinal herbs, logs are taken from the report of Department of Forest. In the case of firewood data on quantity have been taken from NLSS survey of CBS and ▪ Community forest survey conducted by CBS ▪ Data on the quantity of grass/fodder/bedding materials, khair, pine resin, other forest products are taken from the report of Community Forest Division of Department of Forest. ▪ Unit price of logs have been estimated from the value of total revenue generated divided by quantity of the concerned year ▪ Intermediate consumption of forest products have been computed on the basis of Community Forest Survey conducted by CBS in 2005

ISIC Category B: Fisheries

	Fisheries
Coverage	According to the Nepal Standard Industrial Classification (NSIC) this class includes fishing in inland waters. Operation of fish hatcheries producing fingerlings is also included.
Indicator collected	For quarterly purpose, distribution of fish production has been collected for various types of fishes i.e. Rahu, Naini, Grass, Common Crap, Silver etc.
Data sources	CBS study on distribution of fish production, 2011 CBS Survey on Fisheries, 2009: This survey is used for weighting.
Derived indicators	Weighted distribution of quarterly production of fish.
Quarterly methodology	Quarterly distribution profiles of fish production are the derived indicator. Based on this profile published value added estimates are quaterized. To avoid the step problem Proportional Denton Method has been applied. Further to analyse the seasonality effect desesonalization is also carried out.
Annual methodology	It involves the estimation of total value of output at basic price and deducting the value of various inputs at purchaser's prices which are used in the process of production. Output for fishing is measured as: Value of Output = Quantity of Fish Production x Price MOAC is the major data source for fishing activities.

ISIC Category C: Mining and Quarrying

	Mining and Quarrying
Coverage	Mining refers to the industrial activities of digging, extraction and abstracting solid, liquid and gaseous natural minerals. This activity remains relatively insignificant in Nepalese economy. Similarly, quarrying refers to activities of extraction and digging of stone, sand and gravel and other non-metal ores.
Indicator collected	
Data sources	
Derived indicators	
Quarterly methodology	The total volume of mining products is relatively small. Attempt to estimate the mining activity in quarterly basis has not been done so far. Quarrying sub sector is relatively big in this economic sector. So, it is assumed that quarrying activity will follow the same quarterly pattern as that of construction.
Annual methodology	The estimates of output of the mining products are based on the administrative records provided by the Department of Mining and Geology. The total volume of mining products is relatively small. The input structure of the mining activities is also taken from the records of Department of Mining. Information on quarrying activities is derived from the share of quarrying products in construction. The cost composition of the construction activities by type is obtained from the benchmark survey, 2005 on construction composition. A study on quarrying activities conducted in 2005 provides the input/output structure of quarrying activities.

ISIC Category D: Manufacturing

	Modern and Small Manufacturing	Household Manufacturing Activities
Coverage	This subsector covers the all the manufacturing activities except the household level manufacturing activities. Generally, this sector is divided into two broad category i.e. modern and small. Modern category includes establishment which is registered under government entity and engages 10 or more employees (including paid and unpaid employees). All the establishments which don't fall under above mentioned criteria except registration status are put under the small manufacturing	This is the informal manufacturing activity primarily operated by households.
Indicator collected	Quarterly manufacturing production index (QMPI) of modern manufacturing sector.	Quarterly profile of the production (distribution of production)
Data sources	Price Statistics Section, CBS	CBS Study on Household Level Manufacturing Activities, 2011. This study was complemented by Nepal Living Standards Survey (NLSS-II), 2003/04. From NLSS-II, concentration analysis of household activities has been carried out. Then, a small study has been carried out in Lalitpur, Bhaktapur and Gulmi to make a profile of quarterly distribution.
Derived indicators	Quarterly manufacturing production index (QMPI). We have assumed that the change pattern of the modern sector also follows by the small manufacturing.	Quarterly pattern of household level production of manufacturing goods.
Quarterly methodology	The QMPI is the indicator of the change of production of the domestically produced manufacturing goods in quarterly basis. Change in the index has been directly applied to make the quarterly estimates.	Quarterly pattern indicator is taken as the seasonal indicators and the published figures are then distributed accordingly.

Annual methodology	Census and surveys of manufacturing activities provide benchmark estimates of level and ratios of variables involved. It's difficult to carry out census and large scale survey annually because of high cost and manpower involved. Hence the estimates for intervening years are based on indicators derived by relatively small survey but carried out at regular intervals and benchmark ratios. In the absence of annual survey of manufacturing establishment, manufacturing production and price indices based on Quarterly Survey of Manufacturing Establishment provide good indicator of output.	For the purpose of benchmark estimates from unorganized sector, the activities of unregistered household manufacturing enterprises having no paid labor has been taken into account. The data has been derived and processed from non-agriculture enterprises activities section of Nepal Living Standard Survey (NLSS-II). Index of annual growth rate of households engages in manufacturing activities and manufacturing price index has been used as movers for the extrapolation of benchmark estimates at current prices.

ISIC Category E: Electricity, Water and Gas

	Electricity	Water
Coverage	Electricity includes the generation, transmission and distribution of electrical energy for sale to households, industrial and commercial users. This also includes Micro-hydro schemes of up to 3KW capacity size. It excludes activities of turbine mill and improved water mills as both of these categories generate only mechanical power.	The Water sub sector incorporates the collection, purification and distribution of water to household, industrial and commercial users. The distribution of water by government department is not included but it is taken into accounts of government. Similarly the operation of irrigation system is not included as it is classified under agriculture.
Indicator collected	Monthly production of electricity from NEA power centers and other private sector companies.	• Monthly Revenue collected by NWSC from 2064/65 (Nepal Water Supply Corporation: NWSC) • Monthly Water Production by Kathmandu Upatyaka Khanepani Limited (KUKL) from 2064 Falgun. • Annual total production of water from 2061/62 to 2064/065, Yellow Book, Ministry of Finance • Annual total production of water from 2065/66, by adding total production of NWSC and KUKL
Data sources	Load Dispatch Centre, NEA	• Nepal Water Supply Corporation (NWSC) • Kathmandu Upatyaka Khanepani Limited (KUKL) • Ministry of Finance
Derived indicators	Quarterly generation of electricity in GWH	Total production of water
Quarterly methodology	Derived indicators are real production of electricity as well as seasonal indicator. These indicators are applied to the published annual estimates for quarterization. For quarterly estimation, production of micro hydro has been excluded. To analyse the step problem, Proportional Denton Method has been run.	Derived indicators are real production of electricity as well as seasonal indicator. These indicators are applied to the published annual estimates for quarterization. For quarterly estimation, production of micro hydro has been excluded. To analyse the step problem, Proportional Denton Method has been run.

Annual methodology	The financial statements of Nepal Electricity Authority (NEA), Butwal Power Co.Ltd., and Himal Power Co. Ltd. are reclassified and analyzed for the estimation purpose. Apart from this, estimate various indicators like: output, input etc of micro hydro is based on the survey of micro hydro conducted in 2005. To arrive at constant price estimates, current price estimate is deflated by price index of electricity.	The financial statements of NWSC and KUKL are reclassified and analyzed for the estimation purpose.

ISIC Category E: Electricity, Water and Gas

	GAS
Coverage	It includes the generation of bio-gas by households.
Indicator collected	Quarterly production of bio-gas
Data sources	CBS Study conducted in two bio gas potential districts Syanja and Kanchanpur in 2011
Derived indicators	Quarterly distribution of production of bio-gas.
Quarterly methodology	Derived indicators are used to distribute published annual estimates.
Annual methodology	The benchmark estimates of biogas are compiled from Survey of Gobar (Bio) Gas 2001/02. First of all, estimate per plant by capacity of bio gas is calculated. This gives estimates for bio gas plants of different capacity. These estimates are multiplied by the corresponding number of plants in order to derive the total estimates for benchmark year. The imputed value of production by bio-gas plant in the process of cooking as well as lighting has been taken into account. The change in number of bio-gas plants by capacity and prices of LPG gas have been taken as indicators for extrapolating the benchmark estimates

ISIC Category F: Construction

	Construction
Coverage	Construction may be defined as an economic activity directed to the creation, renovation, repair or extension of fixed assets in the form of buildings, land improvements and other such engineering works such as roads, bridges, dam and so forth. The sector includes construction activities of all industries together with construction itself. The whole construction activities have been divided into two broad categories: Pakky Construction and Kachhy Construction. Pakky Construction is of capital intensive type and uses durable construction material like cement, bricks, iron rods etc. and construction workers like engineer, supervisor, carpenter, mason labor etc.as input. On the other hand, Kachhy construction is of labor intensive type and uses locally available material like bamboo, mud, thatch etc. For quarterly GDP Kachhy construction has been excluded.
Indicator collected	• Imports of construction materials • Domestic supply of construction materials via manufacturing production index
Data sources	• Foreign Trade Statistics of Nepal Rastra Bank • Manufacturing Production Index of CBS
Derived indicators	Total adjusted supply of construction materials. Adjustment is made for stocks of materials. Due to the lack of monthly MPI, adjustment is done only for import of construction materials.
Quarterly methodology	Annual methodology has been replicated. Commodity flow approach has been applied.To overcome the step problem, Proportional Denton Technique has been applied.
Annual methodology	Estimates of Concrete (Pakky) Construction is based on indirect approach (Material Input Approach).This approach implies that an estimate is made of the value of various material used in Pakky Construction, after which certain multiplication factor coming from a benchmark study is applied to arrive at a value estimate of the output. Domestic supply and imports (total supply) of construction material is tracked at different stages of flow for the estimation of Pakky Construction. Trade and transport margin are applied before delivery at construction site. Similarly some adjustment has been made for the change in stocks of construction material for the accounting period. Finally, benchmark ratio derived from the Study of Construction Cost Composition (2004/05) has been used to compile the estimates of output, and value added of Pakky Construction. Values of trade margin are applied at detail commodities level. Ratios for value of sand and stone and unaccounted material have been used from Study of Construction Cost Composition, 2005.

ISIC Category G: Trade

	Imports	Domestic Production
Coverage	It covers the distributive trading activities of imported goods.	This industry covers the activity of distributive trade of domestically produced manufacturing and agricultural goods.
Indicator collected	• Monthly Imports • Trade Margin for Imported goods	• Quarterly estimates of agriculture and manufacturing goods via agriculture and manufacturing sector. • Trade margin for domestically produced agriculture and manufacturing goods
Data sources	• Nepal Rastra Bank	• Quarterly estimates of agriculture and manufacturing sector
Derived indicators	• Quarterly supply of imported goods for distributive trade	Quarterly supply of agricultural and manufacturing goods (domestic production)
Quarterly methodology	Annual methodology has been replicated in this subsector. Commodity flow approach is used to derive output. CBS has conducted Nepal's ever first distributive trade survey. It gives the trade margins by commodity and origin (imported or domestic supply). Margin is the output. These margins are applied to the supply.	Annual methodology has been replicated in this subsector. Commodity flow approach is used to derive output. CBS has conducted Nepal's ever first distributive trade survey. It gives the trade margins by commodity and origin (imported or domestic supply). Margin is the output. These margins are applied to the supply.
Annual methodology	Annual estimates are based on the Survey on Distributive Trade, 2007. Some important ratios i.e. input to output, margin rates, wages to output, etc. are the principal indicators of this survey. Margin rates are applied to the annual supply of commodity through imports. Inputs are derived from the output input ratios.	Annual estimates are based on the Survey on Distributive Trade, 2007. Some important ratios i.e. input to output, margin rates, wages to output, etc. are the principal indicators of this survey. Margin rates are applied to the annual supply of commodity through imports. Inputs are derived from the output input ratios.

ISIC Category H: Hotels and Restaurants

	Hotels	Restaurants
Coverage	This industry includes the activities like short stay lodging in hotels, motels and inns, resorts etc.	This subsector includes the activities like sale of meals and snacks for consumptions generally on the premises as well as sale of drinks accompanying the meals and snacks.
Indicator collected	• Tourists arrival • Bed occupancy	• Monthly sales of restaurants • CPI of restaurant meals
Data sources	• Nepal Tourism Board • CBS Study on Bed Occupancy 2010	• CBS Study • Nepal Rastra Bank
Derived indicators	• Quarterly distribution of tourist arrivals • Quarterly distribution of bed occupancy •	Quarterly distribution of sales
Quarterly methodology	This sector is analysed from two different data sources i.e. tourist arrival and bed occupancy. These indicators are applied to annual estimate distribute the annual estimates. We have kept both results as an experiment. After the robustness analysis, the indicator will be selected.	Derived indicators applied to annual current estimates. These estimates are then deflated by CPI of restaurant and meals.
Annual methodology	Hotels of different types and levels such as star and non star are included in the estimation of GVA and other NA aggregates. For five star and four star hotels, individual financial statements are processed and used in the estimates. For other category of hotels, estimates are based on the survey on Hotels and Lodges, 2003. Number of tourist arrival is used as an indicator and volume extrapolator.	Survey on Restaurants, 2005 is used for benchmark estimates. Similarly, the estimate for unincorporated restaurant activities is derived from the data of NLSS II survey.

ISIC Category I: Transport, Storage and Communication

	Transport and Storage	Communication
Coverage	This industry covers the provision of passenger or freight transport, cargo handling and storage services. In Nepal's National Accounts practice, transport activities are classified into land transport, air transport and service incidental to transport. Among these categories, land transport hold the significant role in the overall transport gross value added.	This subsector covers the activities of telecommunications, cable television operators and postal services. Telecommunication activity holds the significant role in this subsector.
Indicator collected	• Monthly distribution of transport activity by mode of vehicles	• Communications services provided by various companies-monthly basis • Annual revenue • Consumer price index-communication
Data sources	• CBS Study on Land Transport, 2011	• Management Information System (MIS) of Nepal Telecommunication Authority • Nepal Telecom • Spice Nepal (NCell) • United Telecom Ltd. • Nepal Rastra Bank
Derived indicators	Quarterly distribution of the land transport service by mode of vehicles	Total revenue by quarters at current and constant price
Quarterly methodology	Derived indicators are used to analyse the quarterly distribution and seasonality effects of land transport. These indicators are directly used to quarterise the annual estimates. For others, steady growth has been assumed. In case of storage, steady growth is assumed.	Revenue of individual telecom companies are taken as the main indicators. But, they are able to give the annual revenue only. To get the quarterly revenue, average revuneu per user is calulated by the quartely users of telecommunication services. Three major telecom services are taken i.e. fixed line, mobile and wilre less loop. MIS report of Nepal Telecommunication Authority is the main source of quarterly users of the services. The quarterly revenue is then deflated by the communication component of CPI. The postal and cable television hold very nominal contribution to its sectors. Steady growth has been assumed for these subsectors.

Annual methodology	In annual compilation, transport activities comprise of land transport, air transport and services incidental to transport services. Estimates of land transport are based on the Benchmark Survey on Land Transport, 2005. In case of air transport, estimates are based on financial statement of the respective airliners. Services incidental to transport covers the activities of cargo, travel and trekking activities etc. Estimates of these activities are based on Benchmark Survey, 2004/05. Output, intermediate consumption, compensation of employees and other micro aggregates are based on the earlier mentioned survey. For other years, extrapolation is carried out by number of establishments engaged in various activities.	Financial statements of Nepal Telecom Authority and other private telecommunication corporations allows for the calculation of output, intermediate consumption, GVA and capital formation at current prices. Constant price measures are obtained by deflating the current value by the selected price index of communication component of CPI. Telecommunication activities operated by private business (PCOs) are captured conducting a survey on private telecommunication activities in 2004. The survey provided detail information on the estimates of input, output and capital formation. The estimates are moved using the number of landline telephone number as volume indicator. The estimates of output and intermediate consumption of postal service activities are obtained directly from the government accounts in case of postal activities operated by government and for private postal service activities; a survey was conducted to cover the activities of private courier services in 2004 to get benchmark estimates on GVA and other NA aggregates.

ISIC Category J: Financial Intermediation

	FISIM	Insurance
Coverage	The finance industry covers the industrial activities of financial institutions which are principally engaged in financial intermediation.	This subsector includes the activities regarding life and non-life insurance.
Indicator collected	• Weighted interbank rate (commercial bank only) • Deposits and loans (commercial bank only) • Consumer Price Index	
Data sources	• Nepal Rastra Bank	
Derived indicators	• FISIM on Loan • FISIM on Deposits • CPI of Taxable components (composite)	
Quarterly methodology	Based on the above indicators actual loans and deposits have been changed into FISIM on loans and FISIM on deposits using the interbank transaction rate.	Steady growth assumption has been applied for this subsector.
Annual methodology	FISIM is calculated by analyzing the financial institution's financial statement. This gives the current price estimates. These estimates are then deflated by overall CPI to arrive at constant price estimates.	Insurance sector estimate is calculated by analyzing the financial statement of insurance companies. This gives the current price estimates. These estimates are then deflated by overall CPI to arrive at constant price estimates.

ISIC Category K: Real Estate, Renting and Business Services

	Real Estate	Renting and Business Services
Coverage	Real estate activity includes buying and selling of different size of land and housing, renting and operating of self-owned or leased real estate activities and development and sale of land. It includes the land and housing broker activities such as an apartment, building, room, flat, business house, business offices, party palace, hotels, residential buildings etc on leased and contract basis. Similarly, this class also includes the imputed rent of owner occupied dwelling. However, the quarterly analysis excludes the activity of owner occupied dwellings.	Renting is an agreement where a payment is made for the temporary use of a good and property. It includes the renting activities of different types of land transport equipments, machinery equipments of agriculture and construction, personal as well as household and office goods etc. owned by another person or company. Renting (hiring) can involve buying services for various amounts of time such as catering services. Other business services includes legal service activities, cooperative activities, auditing and tax consultancy, architectural and engineering activities, business and management consultancies, advertising agencies, employment agencies, security services, and photographic services. Computer and related activities include hardware consultancy, software consultancy and supply, data base activities, maintenance and repair of office, accounting and computing machinery and other computer related activities. Research and development activities include basically two types of innovative works. The first is research and experimental development on natural sciences, medical and agriculture sciences, and engineering and technology. And the second is research and experimental development on social sciences and humanities.
Indicator collected	• Land and house registration tax • Housing CPI	
Data sources	• Financial Comptroller General's Report • Nepal Rastra Bank	

Derived indicators	• Land and house registration tax at constant prices	
Quarterly methodology	The derived indicatoris taken as the short term explanatory variable for real estate.This indicator is applied to the published annual GVA of real estate to get quarterly figures.	Steady growth assumption has been applied for this subsector.
Annual methodology	Due to the diverse nature of activity, different methods have been applied. For housing companies, estimates are based on the Real Estate Survey, 2004. On the case of informal real estate activity, information of NLSS serves the major source. There is a question module related to housing. Imputed rent has been estimated.	Majority of the activities are tracked by the Benchmark Survey, 2004. These surveys give the basic national accounts items i.e. output, input, compensation of employees, employment etc. Extrapolation has been done by using the number of related activity institutions.

ISIC Category L: Public Administration and Defense

	Public Administration and Defense
Coverage	Central government activities except education and health
Indicator collected	Government employees' net working hours
Data sources	Government Calendar
Derived indicators	Quarterly composition of government employee net working hours.
Quarterly methodology	Net working hours is taken as the seasonal indicator. This indicator is assumed to explain the output of public administration output.
Annual methodology	Estimate of public administration activities is based on cost approach. This cost approach takes the accounts of compensation of employees, provision for supply of goods and services except the cost of capital. Financial Comptroller General Office (FCGO) Report is the main data source.

ISIC Category M: Education

	Public Education	Private Education
Coverage	Primary, secondary and higher secondary government /community education system	It covers primary and secondary private education provided. It excludes the higher education provided on private basis. The main reason for differential treatment in private and public education is mainly due to the sample design adopted in Benchmark Survey, 2005.
Indicator collected	• Public school student attendance days by month • Public school teacher attendance days by month	• Private school student attendance days by month • Private school teacher attendance days by month
Data sources	CBS study on school hours taught, 2010	CBS study on school hours taught, 2010
Derived indicators	School taught hours (weighted)	School taught hours(Weighted)
Quarterly methodology	Derived indicators are taken as the seasonal indicators to know the seasonal variations. It is common practice to use the school taught hours indicator as the best approximation to the output of education for short period analysis. These indicators are applied to the published annual estimates for quarterization.	Derived indicators are taken as the seasonal indicators to know the seasonal variations. It is common practice to use the school taught hours indicator as the best approximation to the output of education for short period analysis. These indicators are applied to the published annual estimates for quarterization.
Annual methodology	Public education service has been estimated on the basis of cost approach. The major data source is the annual expenditure statement of Government.	Private education survey,2005 have been taken into account in the private education services. The value of Output, intermediate inputs, GVA, employment and other economic aggregates has been used as per the survey result. As the result of survey, income originated in the sector is estimated as the gross output as recommended by 1993 SNA for the market output. For the years other than survey year, number of private schools has been taken as the quantum indicator to move the benchmark level.

ISIC Category M: Education

	Tertiary Education	Engineering and Medical Education
Coverage	It covers the activities of total tertiary education (public as well as private) and private Higher Secondary School activities.	It covers the activities of medical and engineering educational institutions. It is important to exclude the health services rendered by the medical college.
Indicator collected	• College opening days by month • Number of students • Student attendance days by month	• Institution/College opening days by month • Number of student
Data sources	• Annual publication of Ministry of Education • Annual reports of various universities • Annual report of University Grant Commission (UGC)	Respective medical and engineering colleges
Derived indicators	Weighted quarterly composition of hours taught	Weighted college opening days by quarters. Weight being the number of students.
Quarterly methodology	Derived indicators are taken as the seasonal indicators to know the seasonal variations. It is common practice to use the hourstaught indicator as the best approximation to the output of tertiary education for short period analysis. These indicators are applied to the published annual estimates for quarterization.	Derived indicators are taken as the seasonal indicators to know the seasonal variations. It is common practice to use the school taught hours indicator as the best approximation to the output of above mentioned education for short period analysis. These indicators are applied to the published annual estimates for quarterization.
Annual methodology	Estimates of tertiary education are estimated by composite methods. For public universities/campuses, tertiary education service has been estimated on the basis of cost approach. In case of private universities, independent estimates of output and input have been derived from their annual financial reports. For other institutions i.e. campuses (private), +2 (private), estimates are based on benchmark survey conducted on 2005.	A Census of Medical and Engineering College was conducted in 2005. Based on this census, major macro economic indicators i.e. output, input, capital formation, compensation of employees etc. have been estimated.

ISIC Category N: Health

	Private Health Services	Public Health Services
Coverage	Health services provided by private hospitals/nursing homes	Health services provided by government hospitals
Indicator collected	Indoor/Outdoor patient number	Government employees' net working hours
Data sources	CBS Survey, 2010	Government Calendar
Derived indicators	Quarterly composition of in-patient and out-patient cases.	Quarterly composition of government employee net working hours.
Quarterly methodology	Derived indicators are taken as the seasonal indicators to know the seasonal variations. These indicators are applied to the published annual estimates for quarterization.	Net working hours is taken as the seasonal indicator. This indicator is assumed to explain the output of public sector health output.
Annual methodology	Annual estimates are based on Benchmark Survey 2005. From this survey we have the benchmark estimates of output, intermediate consumption etc. Estimate of the private sector health activities for other than benchmark year is extrapolated the benchmark level by number of the establishments.	Estimate of public sector health activities is based on cost approach. This cost approach takes into account the compensation of employees, provision for supply of goods and services except the cost of capital. Government Financial statement is the main data source.

ISIC Category O: Other Community, social and personal services activities

	Personal and Community Services	Local Government
Coverage	This subsector covers the services like: laundry, haircutting and beauty treatment, maintenance and repair, household services etc.	This covers the activities of local government. This is the part of general government however estimates of this subsector has been put under the other community, social and personnel activities.
Indicator collected		Government employees' net working hours for individual years
Data sources		Government Calendar
Derived indicators		Quarterly composition of local government employee net working hours.
Quarterly methodology	Steady growth has been assumed for this subsector.	Net working hours is taken as the seasonal indicator. This indicator is assumed to explain the output of public sector health output.
Annual methodology		Estimate of local government activities is based on cost approach. This cost approach takes into account the compensation of employees, provision for supply of goods and services except the cost of capital. CBS survey on Local Government and the data of Local Government Fiscal Commission are the major data sources for this subsector

Taxes on Products

	Taxes on Products
Coverage	This is the tax levied on the production, extraction, sale, transfer, leasing, or delivery of goods and rendering of services. It includes the following taxes: Value added tax Excise Taxes on international trade and transactions
Indicator collected	Following taxes are collected. • Customs base tax (imports and exports) • Value added tax (VAT)on Production, Imports, Sales and distribution, Service • Excise on Cigarette, Liquor and beers, Excise on imports • Wholesale price index • Consumer price index
Data sources	• Nepal Rastra Bank • Financial Comptroller General Office

Derived indicators	• Quarterly customs tax ,VAT and excise at both current and constant prices • Quarterly CPI of taxable goods and services • Quarterly indices of excisable and imported goods
Quarterly methodology	Aggregate of these three different taxes gives the total taxes on products in quarterly basis
Annual methodology	Aggregate of above mentioned taxes in current prices. Constant price estimate of taxes on product is derived by deflating the current value of tax by overall GDP deflator.

Distribution of Output of Paddy by Region and Quarter

in '000 NRs.

Region	Distribution of output (%)	Quarter*	Quarterly cost profile (%)	Fiscal Year						
				2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mountain	**0.39**		**Quarter Total**	**170408**	**167208.8**	**146217.1**	**170782.6**	**179698.5**	**159841.8**	**177179.4**
		Q1	23.41	39894	39144.6	34230.3	39981.2	42068.5	37419.9	41478.8
		Q2	6.56	11187	10976.5	9598.5	11211.1	11796.4	10492.9	11631.0
		Q3	42.67	72713	71347.3	62390.2	72872.2	76676.6	68203.8	75601.7
		Q4	27.35	46611	45735.4	39993.7	46713.0	49151.7	43720.4	48462.6
Hill	**38.55**		**Quarter Total**	**16897939**	**16580655**	**14499088**	**16935042**	**17819155**	**15850130**	**17569358**
		Q1	18.85	3185298	3125489	2733109	3192292	3358949	2987784	3311862
		Q2	13.12	2216666	2175045	1901985	2221533	2337511	2079215	2304742
		Q3	24.09	4070361	3993933	3492527	4079298	4292262	3817965	4232091
		Q4	43.94	7425615	7286188	6371466	7441919	7830433	6965167	7720663
Terai	**61.06**		**Quarter Total**	**26769413**	**26266777**	**22969195**	**26828189**	**28228785**	**25109493**	**27833063**
		Q1	24.25	6491726	6369834	5570153	6505979	6845631	6089186	6749667
		Q2	21.75	5821511	5712203	4995082	5834293	6138879	5460530	6052821
		Q3	15.53	4157260	4079201	3567090	4166388	4383899	3899476	4322444
		Q4	38.47	10298916	10105538	8836870	10321529	10860376	9660300	10708131
Nepal		Q1		9716917	9534468	8337492	9738252	10246649	9114390	10103007
		Q2		8049363	7898224	6906666	8067037	8488186	7550238	8369195
		Q3		8300333	8144482	7122008	8318558	8752838	7785645	8630137
		Q4		17771142	17437462	15248329	17810161	18739961	16669187	18477256
		Total		**43837761**	**43014640**	**37614500**	**43934014**	**46227638**	**41119465**	**45579600**

**** Gregorian Month***

Q1 : Mid July - Mid October
Q2 : Mid October - Mid January
Q3 : Mid January - Mid April
Q4 : Mid April - Mid July

**** Nepali Month***

Q1 : Shrawan - Aswin
Q2 : Kartik - Poush
Q3 : Magh - Chaitra
Q4 : Baisakh - Ashad

The Nepalese Fiscal Year generally begins on July 16 and ends on July 15.

Distribution of Output of Wheat by Region and Quarter

in '000 NRs.

Region	Distribution of output (%)	Quarter	Quarterly Cost Profile (%)	Fiscal Year						
				2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mountain	2.07		Quarter Total	383172.4	370337.7	402483.7	417605.6	356985.5	413481.3	411434.4
		Q1	9.17	35141.6	33964.5	36912.7	38299.5	32739.9	37921.3	37733.6
		Q2	56.55	216688.3	209430.1	227609.0	236160.6	201879.3	233828.3	232670.7
		Q3	17.45	66862.5	64622.9	70232.3	72871.0	62293.0	72151.4	71794.2
		Q4	16.83	64480.0	62320.2	67729.7	70274.4	60073.3	69580.4	69235.9
Hill	33.74		Quarter Total	6233313	6024522	6547463	6793460	5807313	6726367	6693069
		Q1	13.68	852941	824371	895928	929589	794649	920408	915852
		Q2	59.38	3701041	3577071	3887569	4033630	3448103	3993793	3974023
		Q3	12.51	780001	753874	819312	850094	726694	841699	837532
		Q4	14.43	899330	869206	944654	980146	837867	970466	965662
Terai	64.19		Quarter Total	11858308	11461103	12455950	12923938	11047883	12796299	12732953
		Q1	0.00	0	0	0	0	0	0	0
		Q2	53.38	6329970	6117941	6648991	6898803	5897364	6830670	6796855
		Q3	40.12	4757026	4597685	4996774	5184510	4431920	5133307	5107895
		Q4	6.50	771312	745476	810185	840625	718599	832323	828203
Nepal		Q1		888082	858335	932841	967889	827389	958330	953586
		Q2		10247699	9904443	10764169	11168594	9547347	11058291	11003549
		Q3		5603890	5416182	5886318	6107475	5220906	6047157	6017221
		Q4		1735122	1677002	1822569	1891046	1616539	1872370	1863101
		Total		18474793	17855962	19405896	20135004	17212181	19936147	19837457

Distribution of Output of Summer Maize by Region and Quarter

in '000 NRs.

Region	Distribution of output (%)	Quarter	Quarterly Cost Profile (%)	Fiscal Year						
				2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mountain	1.48		Quarter Total	244979.6	247602.8	259809.8	268193.0	275619.5	264843.3	295156.4
		Q1	1.92	4703.6	4754.0	4988.3	5149.3	5291.9	5085.0	5667.0
		Q2	1.38	3373.9	3410.1	3578.2	3693.6	3795.9	3647.5	4065.0
		Q3	75.49	184932.6	186912.9	196127.8	202456.2	208062.3	199927.5	222810.6
		Q4	21.21	51969.5	52525.9	55115.5	56893.9	58469.3	56183.3	62613.9
Hill	40.77		Quarter Total	6735379	6807500	7143114	7373599	7577779	7281504	8114920
		Q1	14.50	976467	986923	1035579	1068994	1098595	1055642	1176467
		Q2	8.10	545470	551311	578491	597157	613692	589698	657193
		Q3	29.40	1980475	2001682	2100366	2168138	2228175	2141059	2386117
		Q4	48.00	3232967	3267584	3428679	3539311	3637317	3495105	3895143
Terai	57.75		Quarter Total	9541180	9643345	10118769	10445268	10734505	10314809	11495406
		Q1	21.54	2055213	2077220	2179628	2249958	2312261	2221856	2476162
		Q2	16.61	1584978	1601950	1680927	1735165	1783213	1713493	1909613
		Q3	25.70	2451690	2477942	2600106	2684003	2758325	2650480	2953845
		Q4	36.15	3449299	3486233	3658107	3776142	3880706	3728979	4155785
Nepal		Q1		3036384	3068897	3220196	3324101	3416147	3282583	3658296
		Q2		2133822	2156670	2262996	2336015	2400701	2306839	2570871
		Q3		4617098	4666537	4896600	5054598	5194563	4991466	5562773
		Q4		6734235	6806344	7141901	7372347	7576492	7280268	8113542
		Total		16521539	16698448	17521693	18087060	18587903	17861156	19905483

Distribution of Output of Millet by Region and Quarter

in '000 NRs.

Region	Distribution of output (%)	Quarter	Quarterly Cost Profile (%)	Fiscal Year						
				2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mountain	6.71		Quarter Total	195063.9	195802.9	191682.0	195911.9	196978.6	201582.0	203714.1
		Q1	61.13	119250.8	119702.5	117183.3	119769.2	120421.3	123235.6	124539.0
		Q2	23.26	45373.4	45545.3	44586.8	45570.7	45818.8	46889.6	47385.5
		Q3	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q4	15.60	30439.7	30555.0	29912.0	30572.0	30738.5	31456.9	31789.6
Hill	92.93		Quarter Total	2701625	2711859	2654786	2713369	2728144	2791900	2821430
		Q1	59.26	1600917	1606981	1573161	1607876	1616631	1654412	1671910
		Q2	19.53	527590	529589	518443	529884	532769	545220	550986
		Q3	0.00	0	0	0	0	0	0	0
		Q4	21.21	573118	575289	563182	575609	578744	592269	598533
Terai	0.36		Quarter Total	10415	10455	10235	10461	10517	10763	10877
		Q1	45.74	4764	4782	4682	4785	4811	4924	4976
		Q2	0.00	0	0	0	0	0	0	0
		Q3	0.00	0	0	0	0	0	0	0
		Q4	54.26	5651	5672	5553	5675	5706	5840	5901
Nepal		Q1		1724932	1731466	1695026	1732431	1741864	1782571	1801425
		Q2		572964	575134	563030	575455	578588	592109	598372
		Q3		0	0	0	0	0	0	0
		Q4		609208	611516	598646	611857	615188	629565	636224
		Total		2907104	2918117	2856703	2919742	2935640		

Distribution of Output of Barley by Region and Quarter

in '000 NRs.

Region	Distribution of output (%)	Quarter	Quarterly Cost Profile (%)	Fiscal Year						
				2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mountain	32.35		Quarter Total	144926.0	137245.3	139749.5	138707.3	114711.9	136262.3	43668.9
		Q1	25.66	37192.5	35221.4	35864.1	35596.6	29438.6	34969.1	11206.8
		Q2	35.52	51475.5	48747.5	49636.9	49266.8	40743.9	48398.3	15510.6
		Q3	27.09	39255.7	37175.2	37853.5	37571.2	31071.7	36909.0	11828.5
		Q4	11.73	17002.3	16101.2	16395.0	16272.7	13457.7	15985.9	5123.1
Hill	67.05		Quarter Total	300366	284447	289638	287478	237746	282410	90506
		Q1	40.59	121919	115458	117564	116688	96501	114631	36737
		Q2	25.35	76132	72097	73413	72865	60260	71581	22940
		Q3	12.40	37240	35267	35910	35642	29477	35014	11221
		Q4	21.67	65075	61626	62750	62282	51508	61185	19608
Terai	0.60		Quarter Total	2671	2530	2576	2557	2114	2512	805
		Q1	0.00	0	0	0	0	0	0	0
		Q2	61.98	1656	1568	1597	1585	1311	1557	499
		Q3	38.02	1016	962	979	972	804	955	306
		Q4	0.00	0	0	0	0	0	0	0
Nepal		Q1		159112	150679	153428	152284	125940	149600	47943
		Q2		129263	122412	124646	123716	102314	121536	38949
		Q3		77512	73404	74743	74186	61352	72878	23356
		Q4		82077	77727	79145	78555	64966	77170	24731
		Total		447963	424222	431963	428742	354572	421184	134980

Distribution of Output of Soyabean by Region and Quarter

in '000 NRs.

Region	Distribution of output (%)	Quarter	Quarterly Cost Profile (%)	Fiscal Year						
				2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mountain	12.59		Quarter Total	56568.3	55765.1	59824.9	58819.8	60224.8	58213.4	58548.2
		Q1	29.85	16885.0	16645.2	17857.0	17557.0	17976.4	17376.0	17475.9
		Q2	36.45	20616.6	20323.8	21803.5	21437.2	21949.2	21216.2	21338.2
		Q3	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q4	33.71	19066.8	18796.0	20164.4	19825.6	20299.2	19621.2	19734.1
Hill	84.22		Quarter Total	378415	373041	400199	393476	402874	389420	391659
		Q1	39.96	151220	149073	159926	157239	160995	155618	156513
		Q2	27.42	103767	102293	109740	107897	110474	106784	107398
		Q3	3.21	12136	11964	12835	12619	12921	12489	12561
		Q4	29.41	111291	109711	117698	115721	118485	114528	115186
Terai	3.19		Quarter Total	14326	14123	15151	14897	15253	14743	14828
		Q1	62.50	8954	8827	9470	9310	9533	9214	9267
		Q2	25.00	3582	3531	3788	3724	3813	3686	3707
		Q3	0.00	0	0	0	0	0	0	0
		Q4	12.50	1791	1765	1894	1862	1907	1843	1853
Nepal		Q1		177059	174545	187252	184106	188504	182208	183256
		Q2		127965	126148	135332	133058	136236	131686	132444
		Q3		12136	11964	12835	12619	12921	12489	12561
		Q4		132149	130272	139756	137409	140691	135992	136774
		Total		449309	442929	475175	467192	478352	462376	465035

Distribution of Output of Blackgram by Region and Quarter

in '000 NRs.

Region	Distribution of output (%)	Quarter	Quarterly Cost Profile (%)	Fiscal Year						
				2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mountain	6.31		Quarter Total	85940.4	78063.3	80085.1	78739.7	74542.8	79388.8	78139.6
		Q1	68.91	59223.9	53795.5	55188.8	54261.6	51369.5	54708.9	53848.1
		Q2	27.10	23286.8	21152.3	21700.2	21335.6	20198.4	21511.5	21173.0
		Q3	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q4	3.99	3429.8	3115.4	3196.1	3142.4	2974.9	3168.3	3118.5
Hill	80.60		Quarter Total	1097443	996853	1022672	1005491	951898	1013780	997829
		Q1	28.97	317951	288809	296289	291311	275784	293713	289091
		Q2	24.38	267611	243082	249378	245189	232120	247210	243320
		Q3	12.15	133341	121119	124256	122168	115657	123176	121237
		Q4	34.49	378540	343843	352749	346823	328337	349682	344180
Terai	13.08		Quarter Total	178141	161813	166004	163215	154516	164561	161972
		Q1	56.17	100070	90898	93252	91686	86799	92442	90987
		Q2	36.14	64388	58487	60002	58994	55849	59480	58544
		Q3	0.00	0	0	0	0	0	0	0
		Q4	7.68	13683	12428	12750	12536	11868	12639	12441
Nepal		Q1		477246	433502	444730	437258	413953	440863	433926
		Q2		355287	322722	331080	325518	308168	328201	323037
		Q3		133341	121119	124256	122168	115657	123176	121237
		Q4		395652	359387	368695	362501	343180	365490	359739
		Total		1361525	1236730	1268761	1247446	1180957	1257730	1237940

Distribution of Output of Lentil by Region and Quarter

in '000 NRs.

Region	Distribution of output (%)	Quarter	Quarterly Cost Profile (%)	Fiscal Year						
				2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mountain	0.19		Quarter Total	12050.2	11843.8	12150.5	11946.4	11309.7	11856.4	11818.0
		Q1	64.71	7797.2	7663.6	7862.1	7730.0	7318.0	7671.8	7647.0
		Q2	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q3	35.29	4253.0	4180.2	4288.4	4216.4	3991.6	4184.6	4171.1
		Q4	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hill	3.12		Quarter Total	203087	199609	204778	201338	190607	199821	199175
		Q1	28	57378	56395	57856	56884	53852	56455	56273
		Q2	3	5878	5777	5927	5827	5517	5783	5765
		Q3	10	19662	19325	19826	19492	18454	19346	19283
		Q4	59	120169	118111	121170	119134	112784	118237	117854
Terai	96.69		Quarter Total	6290823	6183064	6343205	6236639	5904226	6189659	6169622
		Q1	6.21	390872	384177	394127	387505	366851	384586	383341
		Q2	57.36	3608102	3546296	3638145	3577025	3386369	3550079	3538587
		Q3	36.43	2291849	2252591	2310933	2272109	2151006	2254993	2247694
		Q4	0	0	0	0	0	0	0	0
Nepal		Q1		456047	448235	459845	452119	428021	448714	447261
		Q2		3613980	3552074	3644072	3582852	3391886	3555862	3544352
		Q3		2315764	2276096	2335047	2295818	2173451	2278524	2271148
		Q4		120169	118111	121170	119134	112784	118237	117854
		Total		6505960	6394516	6560134	6449924	6106143	6401337	6380615

Distribution of Output of Winter Potato by Region and Quarter

in '000 NRs.

Region	Distribution of output (%)	Quarter	Quarterly Cost Profile (%)	Fiscal Year						
				2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mountain	8.52		Quarter Total	1092224.8	1240411.1	1220619.2	1290700.8	1522627.4	1581450.9	1624150.1
		Q1	40.72	444752.8	505094.1	497034.8	525572.0	620012.2	643965.1	661352.2
		Q2	19.58	213882.6	242900.9	239025.2	252748.8	298165.3	309684.3	318045.8
		Q3	35.46	387348.7	439901.8	432882.8	457736.6	539987.5	560848.8	575991.7
		Q4	9.01	98409.3	111760.9	109977.6	116292.0	137188.5	142488.5	146335.7
Hill	72.55		Quarter Total	9303817	10566101	10397509	10994480	12970083	13471155	13834876
		Q1	14.94	1390151	1578759	1553568	1642766	1937955	2012824	2067170
		Q2	40.32	3751014	4259929	4191958	4432638	5229141	5431158	5577799
		Q3	38.46	3578075	4063526	3998689	4228273	4988053	5180756	5320636
		Q4	6.28	584576	663887	653294	690803	814934	846417	869270
Terai	18.93		Quarter Total	2427129	2756427	2712446	2868180	3383565	3514282	3609167
		Q1	17.10	415099	471417	463895	490529	578673	601028	617256
		Q2	43.47	1055049	1198192	1179074	1246770	1470802	1527624	1568870
		Q3	4.05	98290	111626	109845	116151	137023	142316	146159
		Q4	35.38	858691	975193	959633	1014730	1197067	1243313	1276883
Nepal		Q1		2250003	2555269	2514498	2658867	3136640	3257818	3345779
		Q2		5019946	5701022	5610057	5932157	6998109	7268466	7464714
		Q3		4063714	4615054	4541416	4802161	5665063	5883921	6042787
		Q4		1541676	1750841	1722905	1821825	2149189	2232219	2292489
		Total		12875339	14622185	14388875	15215009	17949001	18642423	19145768

Distribution of Output of Mustard by Region and Quarter

in '000 NRs.

Region	Distribution of output (%)	Quarter	Quarterly Cost Profile (%)	Fiscal Year						
				2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mountain	0		**Quarter Total**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
		Q1	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q2	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q3	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q4	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hill	23.46		**Quarter Total**	**689478**	**674964**	**660755**	**652073**	**657939**	**726557**	**751987**
		Q1	6.11	42156	41269	40400	39869	40228	44423	45978
		Q2	71.94	496033	485591	475368	469122	473343	522709	541003
		Q3	20.01	137948	135045	132202	130465	131638	145367	150455
		Q4	1.93	13341	13060	12785	12617	12730	14058	14550
Terai	76.54		**Quarter Total**	**2249649**	**2202292**	**2155931**	**2127604**	**2146743**	**2370632**	**2453605**
		Q1	14.27	320966	314209	307595	303553	306284	338227	350065
		Q2	71.12	1599990	1566309	1533337	1513190	1526802	1686036	1745047
		Q3	14.61	328693	321774	315000	310861	313658	346370	358493
		Q4	0.00	0	0	0	0	0	0	0
Nepal		Q1		363122	355478	347995	343422	346512	382650	396043
		Q2		2096023	2051899	2008705	1982312	2000144	2208744	2286050
		Q3		466642	456818	447202	441326	445296	491737	508948
		Q4		13341	13060	12785	12617	12730	14058	14550
		Total		**2939127**	**2877256**	**2816687**	**2779677**	**2804682**	**3097190**	**3205591**

Distribution of Output of Linseed by Region and Quarter

in '000 NRs.

Region	Distribution of output (%)	Quarter	Quarterly Cost Profile (%)	Fiscal Year						
				2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mountain	**0.00**		**Quarter Total**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
		Q1	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q2	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q4	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hill	**0.00**		**Quarter Total**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
		Q1	0	0	0	0	0	0	0	0
		Q2	0	0	0	0	0	0	0	0
		Q3	0	0	0	0	0	0	0	0
		Q4	0	0	0	0	0	0	0	0
Terai	**100.00**		**Quarter Total**	**965196**	**944878**	**924987**	**912834**	**921049**	**1017103**	**1026257**
		Q1	0	3028	2965	2902	2864	2890	3191	3220
		Q2	58	555027	543344	531906	524917	529641	584876	590140
		Q3	42	407140	398570	390179	385053	388518	429036	432897
		Q4	0	0	0	0	0	0	0	0
Nepal		Q1		3028	2965	2902	2864	2890	3191	3220
		Q2		555027	543344	531906	524917	529641	584876	590140
		Q3		407140	398570	390179	385053	388518	429036	432897
		Q4		0	0	0	0	0	0	0
		Total		**965196**	**944878**	**924987**	**912834**	**921049**	**1017103**	**1026257**

Distribution of Output of Sugarcane by Region and Quarter

in '000 NRs.

Region	Distribution of output (%)	Quarter	Quarterly Cost Profile (%)	Fiscal Year						
				2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mountain	0		**Quarter Total**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
		Q1	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q2	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q4	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hill	0.19		**Quarter Total**	**5309**	**5502**	**5809**	**5553**	**5260**	**5792**	**5792**
		Q1	0	0	0	0	0	0	0	0
		Q2	0	0	0	0	0	0	0	0
		Q3	100	5309	5502	5809	5553	5260	5792	5792
		Q4	0	0	0	0	0	0	0	0
Terai	99.81		**Quarter Total**	**2761708**	**2862212**	**3021694**	**2888785**	**2736497**	**3013223**	**3013224**
		Q1	2	56995	59069	62360	59617	56475	62185	62186
		Q2	44	1223320	1267839	1338483	1279609	1212152	1334730	1334731
		Q3	45	1244110	1289385	1361230	1301356	1232752	1357413	1357414
		Q4	9	237284	245919	259622	248202	235118	258894	258894
Nepal		Q1		56995	59069	62360	59617	56475	62185	62186
		Q2		1223320	1267839	1338483	1279609	1212152	1334730	1334731
		Q3		1249418	1294887	1367038	1306909	1238013	1363206	1363206
		Q4		237284	245919	259622	248202	235118	258894	258894
		Total		**2767016**	**2867714**	**3027503**	**2894338**	**2741757**	**3019015**	**3019016**

Distribution of Output of Garlic by Region and Quarter

in '000 NRs.

Region	Distribution of output (%)	Quarter	Quarterly Cost Profile (%)	Fiscal Year						
				2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mountain	0		Quarter Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q1	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q2	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q4	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hill	58.38		Quarter Total	653786	664547	688081	718653	799468	904022	947415
		Q1	58	379965	386219	399897	417664	464632	525396	550615
		Q2	25	162189	164858	170697	178281	198329	224266	235031
		Q3	14	90387	91874	95128	99355	110527	124982	130981
		Q4	3	21245	21595	22360	23353	25980	29377	30787
Terai	41.62		Quarter Total	466039	473710	490486	512278	569885	644415	675347
		Q1	21	95561	97134	100574	105043	116855	132137	138480
		Q2	60	280191	284804	294889	307991	342626	387435	406031
		Q3	19	90286	91772	95022	99244	110404	124843	130836
		Q4	0	0	0	0	0	0	0	0
Nepal		Q1		475526	483354	500471	522707	581487	657534	689095
		Q2		442380	449662	465586	486272	540955	611701	641063
		Q3		180673	183647	190150	198599	220932	249825	261817
		Q4		21245	21595	22360	23353	25980	29377	30787
		Total		1119825	1138257	1178567	1230930	1369353	1548437	1622762

Distribution of Output of Ginger by Region and Quarter

in '000 NRs.

Region	Distribution of output (%)	Quarter	Quarterly Cost Profile (%)	Fiscal Year						
				2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mountain	0		Quarter Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q1	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q2	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q4	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hill	91.84		Quarter Total	2638089	2663934	2745216	2784363	3214134	3291807	3449813
		Q1	10	262978	265555	273657	277560	320402	328144	343895
		Q2	7	181420	183198	188787	191480	221035	226376	237242
		Q3	67	1774663	1792048	1846728	1873062	2162173	2214423	2320716
		Q4	16	419028	423133	436044	442262	510526	522863	547960
Terai	8.16		Quarter Total	234368	236664	243885	247363	285544	292444	306481
		Q1	8	17726	17900	18446	18709	21597	22119	23180
		Q2	12	27661	27932	28784	29194	33701	34515	36172
		Q3	3	7792	7868	8108	8224	9493	9722	10189
		Q4	77	181189	182964	188547	191236	220753	226088	236940
Nepal		Q1		280704	283454	292103	296269	341998	350263	367076
		Q2		209081	211129	217571	220674	254735	260891	273414
		Q3		1782454	1799916	1854836	1881286	2171666	2224146	2330905
		Q4		600217	606097	624591	633497	731279	748951	784900
		Total		2872457	2900597	2989101	3031726	3499678	3584250	3756294

Distribution of Output of Cardamom by Region and Quarter

in '000 NRs.

Region	Distribution of output (%)	Quarter	Quarterly Cost Profile (%)	Fiscal Year						
				2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Mountain	0		Quarter Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q1	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q2	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Q4	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Hill	100		Quarter Total	505170	551653	564020	588258	782573	588424	616668
		Q1	16	83182	90836	92873	96864	128860	96891	101542
		Q2	10	50922	55608	56854	59297	78885	59314	62161
		Q3	26	129837	141784	144962	151192	201134	151234	158494
		Q4	48	241229	263425	269331	280905	373694	280984	294471
Terai	0		Quarter Total	0	0	0	0	0	0	0
		Q1	0	0	0	0	0	0	0	0
		Q2	0	0	0	0	0	0	0	0
		Q3	0	0	0	0	0	0	0	0
		Q4	0	0	0	0	0	0	0	0
Nepal		Q1		83182	90836	92873	96864	128860	96891	101542
		Q2		50922	55608	56854	59297	78885	59314	62161
		Q3		129837	141784	144962	151192	201134	151234	158494
		Q4		241229	263425	269331	280905	373694	280984	294471
		Total		505170	551653	564020	588258	782573	588424	616668

Benchmarking of Gross Value Added at Constant Price of Agriculture Sector *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change	Denton**	Seasonal Adjustment
2004/05 (2061/62)	Q1	10431				13413		15993	22900
	Q2	26778	156.7			34431	156.7	27645	22522
	Q3	21040	-21.4			27053	-21.4	23289	22555
	Q4	12464	-40.8			16026	-40.8	23998	22950
Sum		**70712.4**		**90924**	**1.286**	**90924**		**90924**	**90927**
2005/06 (2062/63)	Q1	20995	68.5			17696	10.4	16056	22967
	Q2	36757	75.1			30980	75.1	27733	22598
	Q3	29505	-19.7			24868	-19.7	23506	22766
	Q4	20982	-28.9			17684	-28.9	23934	22912
Sum		**108239.0**		**91229**	**0.843**	**91229**		**91229**	**91243**
2006/07 (2063/64)	Q1	21012	0.1			17014	-3.8	15307	22215
	Q2	37589	78.9			30437	78.9	27827	22666
	Q3	30164	-19.8			24424	-19.8	23391	22643
	Q4	21328	-29.3			17270	-29.3	22620	21656
Sum		**110092.8**		**89145**	**0.810**	**89145**		**89145**	**89180**
2007/08 (2064/65)	Q1	20068	-5.9			17820	3.2	16669	23545
	Q2	37068	84.7			32916	84.7	29228	24048
	Q3	29740	-19.8			26409	-19.8	24727	23963
	Q4	20715	-30.3			18395	-30.3	24913	24003
Sum		**107590.9**		**95538**	**0.888**	**95538**		**95538**	**95559**
2008/09 (2065/66)	Q1	22058	6.5			19022	3.4	17404	24266
	Q2	37818	71.4			32613	71.4	29045	23857
	Q3	31177	-17.6			26885	-17.6	25278	24515
	Q4	22316	-28.4			19245	-28.4	26037	25134
Sum		**113369.2**		**97764**	**0.862**	**97764**		**97764**	**97772**
2009/10 (2066/67)	Q1	22916	2.7			18685	-2.9	16899	23765
	Q2	40670	77.5			33161	77.5	30355	25136
	Q3	32807	-19.3			26750	-19.3	25595	24819
	Q4	22796	-30.5			18588	-30.5	24334	23497
Sum		**119189.1**		**97183**	**0.815**	**97183**		**97183**	**97217**
2010/11 (2067/68)	Q1	22151	-2.8			19341	4.1	20085	26928
	Q2	39978	80.5			34907	80.5	30550	25306
	Q3	32658	-18.3			28515	-18.3	26141	25361
	Q4	22714	-30.4			19833	-30.4	25820	25023
Sum		**117500.5**		**102596**	**0.873**	**102596**		**102596**	**102618**

* BI ratio: Benchmark-to-indicator ratio

**Denton: The proportional denton technique is used to solve the step problem.

Benchmarking of Gross Value Added at Constant Price of Livestock Sector

in million

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change
2004/05 (2061/62)	Q1	57				1827	
	Q2	70	22.7			2242	22.7
	Q3	43	-39.5			1356	-39.5
	Q4	66	54.8			2100	54.8
Sum		**236.1**		7525	**31.865**	**7525**	
2005/06 (2062/63)	Q1	57	-13.0			1942	-7.5
	Q2	70	22.7			2384	22.7
	Q3	43	-39.5			1442	-39.5
	Q4	66	54.8			2233	54.8
Sum		**236.1**		8001	**33.882**	**8001**	
2006/07 (2063/64)	Q1	57	-13.0			2009	-10.0
	Q2	70	22.7			2467	22.7
	Q3	43	-39.5			1492	-39.5
	Q4	66	54.8			2310	54.8
Sum		**236.1**		8278	**35.056**	**8278**	
2007/08 (2064/65)	Q1	57	-13.0			2148	-7.0
	Q2	70	22.7			2637	22.7
	Q3	43	-39.5			1595	-39.5
	Q4	66	54.8			2470	54.8
Sum		**236.1**		8851	**37.482**	**8851**	
2008/09 (2065/66)	Q1	57	-13.0			2198	-11.0
	Q2	70	22.7			2698	22.7
	Q3	43	-39.5			1632	-39.5
	Q4	66	54.8			2527	54.8
Sum		**236.1**		9056	**38.350**	**9056**	
2009/10 (2066/67)	Q1	57	-13.0			2357	-6.7
	Q2	70	22.7			2894	22.7
	Q3	43	-39.5			1750	-39.5
	Q4	66	54.8			2710	54.8
Sum		**236.1**		9712	**41.128**	**9712**	

* BI ratio: Benchmark-to-indicator ratio

Benchmarking of Gross Value Added at Constant Price of Forestry Sector *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change	Denton**	Seasonal Adjustment
2004/05 (2061/62)	Q1	722193.9				2570		2526	
	Q2	490490.7	-32.1			1746	-32.1	1721	-31.9
	Q3	1241030.9	153.0			4417	153.0	4386	154.9
	Q4	2608834.9	110.2			9285	110.2	9384	113.9
Sum		**5062550.6**		**18017.11582**	**0.0036**	**18017**		**18017**	
2005/06 (2062/63)	Q1	603515.8	-76.9			2297	-75.3	2255	-73.8
	Q2	641571.5	6.3			2442	6.3	2454	90.2
	Q3	1209392.4	88.5			4603	88.5	4668	95.8
	Q4	2411503.3	99.4			9179	99.4	9143	-84.5
Sum		**4865983.0**		**18520.88734**	**0.0038**	**18521**		**18521**	
2006/07 (2063/64)	Q1	402343.9	-83.3			1176	-87.2	1415	208.8
	Q2	335902.3	-16.5			982	-16.5	1094	178.2
	Q3	1452097.2	332.3			4246	332.3	4370	-47.5
	Q4	4320741.5	197.6			12633	197.6	12157	-71.0
Sum		**6511084.8**		**19036.90126**	**0.0029**	**19037**		**19037**	
2007/08 (2064/65)	Q1	2261520.0	-47.7			6776	-46.4	6379	289.4
	Q2	637070.0	-71.8			1909	-71.8	1851	-90.8
	Q3	1367195.0	114.6			4097	114.6	4126	171.2
	Q4	2264020.0	65.6			6784	65.6	7209	207.6
Sum		**6529805.0**		**19565.36301**	**0.0030**	**19565**		**19565**	
2008/09 (2065/66)	Q1	194175.0	-91.4			844	-87.6	660	-84.3
	Q2	485625.0	150.1			2111	150.1	1791	176.3
	Q3	1355230.0	179.1			5892	179.1	5508	158.7
	Q4	2590115.0	91.1			11260	91.1	12148	81.3
Sum		**4625145.0**		**20106.7374**	**0.0043**	**20107**		**20107**	
2009/10 (2066/67)	Q1	149415.0	-94.2			1110	-90.1	866	-26.1
	Q2	352285.0	135.8			2617	135.8	2392	-31.8
	Q3	821240.0	133.1			6102	133.1	6188	27.6
	Q4	1457795.0	77.5			10831	77.5	11216	194.3
Sum		**2780735.0**		**20660.97228**	**0.0074**	**20661**		**20661**	
2010/11 (2067/68)	Q1	10125.0	-99.3			75	-99.3	69	-99.4
	Q2	1396975.0	13697.3			10380	13697.3	8293	11920.0
	Q3	1051200.0	-24.8			7810	-24.8	5654	-31.8
	Q4	1424845.0	35.5			10587	35.5	7212	27.6
Sum		**3883145.0**		**21228.26189**	**0.0055**	**28852**		**21228**	

* BI ratio: Benchmark-to-indicator ratio

**Denton: The proportional denton technique is used to solve the step problem.

Benchmarking of Gross Value Added at Constant Price of Fisheries Sector

in million

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change	Denton**	Seasonal Adjustment
2004/05 (2061/62)	Q1	6.6				166		164	625
	Q2	48.5	633.0			1215	633.0	1205	624
	Q3	25.4	-47.5			638	-47.5	639	625
	Q4	19.5	-23.3			489	-23.3	499	638
Sum		**100.0**		**2507**	**25.070**	**2507**		**2507**	
2005/06 (2062/63)	Q1	6.6	-66.1			182	-62.7	173	659
	Q2	48.5	633.0			1335	633.0	1298	672
	Q3	25.4	-47.5			701	-47.5	710	694
	Q4	19.5	-23.3			537	-23.3	574	734
Sum		**100.0**		**2755**	**27.550**	**2755**		**2755**	
2006/07 (2063/64)	Q1	6.6	-66.1			222	-58.6	206	785
	Q2	48.5	633.0			1631	633.0	1594	824
	Q3	25.4	-47.5			856	-47.5	872	853
	Q4	19.5	-23.3			656	-23.3	695	889
Sum		**100.0**		**3366**	**33.657**	**3366**		**3366**	
2007/08 (2064/65)	Q1	6.6	-66.1			254	-61.3	243	926
	Q2	48.5	633.0			1863	633.0	1846	954
	Q3	25.4	-47.5			978	-47.5	986	966
	Q4	19.5	-23.3			749	-23.3	768	983
Sum		**100.0**		**3844**	**38.439**	**3844**		**3844**	
2008/09 (2065/66)	Q1	6.6	-66.1			268	-64.3	263	1001
	Q2	48.5	633.0			1962	633.0	1955	1010
	Q3	25.4	-47.5			1030	-47.5	1032	1012
	Q4	19.5	-23.3			789	-23.3	798	1022
Sum		**100.0**		**4048**	**40.481**	**4048**		**4048**	
2009/10 (2066/67)	Q1	6.6	-66.1			278	-64.8	272	1035
	Q2	48.5	633.0			2038	633.0	2014	1040
	Q3	25.4	-47.5			1070	-47.5	1075	1055
	Q4	19.5	-23.3			820	-23.3	845	1083
Sum		**100.0**		**4206**	**42.059**	**4206**		**4206**	
2010/11 (2067/68)	Q1	6.6	-66.1			303	-63.0	294	1118
	Q2	48.5	633.0			2223	633.0	2214	1142
	Q3	25.4	-47.5			1167	-47.5	1173	1152
	Q4	19.5	-23.3			894	-23.3	905	1160
Sum		**100.0**		**4587**	**45.875**	**4587**		**4587**	

* BI ratio: Benchmark-to-indicator ratio

**Denton: The proportional denton technique is used to solve the step problem.

Benchmarking of Gross Value Added at Constant Price of Quarrying Sector *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change
2004/05 (2061/62)	Q1	6817.4				518.8	
	Q2	6429.4	-6.0			489.3	-6.0
	Q3	7415.6	13.3			564.4	13.3
	Q4	7841.1	5.4			596.7	5.4
Sum		**28503.4**		**2169.2**	**0.076**	**2169.2**	
2005/06 (2062/63)	Q1	7629.2				583.8	-2.2
	Q2	8439.9	9.6			645.8	9.6
	Q3	7034.1	-20.0			538.2	-20.0
	Q4	7586.8	7.3			580.5	7.3
Sum		**30690.0**		**2348.3**	**0.077**	**2348.3**	
2006/07 (2063/64)	Q1	7502.5				568.4	-2.1
	Q2	6908.7	-8.6			523.4	-8.6
	Q3	6683.6	-3.4			506.4	-3.4
	Q4	10358.1	35.5			784.8	35.5
Sum		**31452.9**		**2383.0**	**0.076**	**2383.0**	
2007/08 (2064/65)	Q1	6686.2				508.5	-54.3
	Q2	8371.3	20.1			636.7	20.1
	Q3	8807.5	5.0			669.8	5.0
	Q4	9177.8	4.0			698.0	4.0
Sum		**33042.8**		**2513.0**	**0.076**	**2513.0**	
2008/09 (2065/66)	Q1	7192.0				546.0	-27.8
	Q2	8097.8	11.2			614.7	11.2
	Q3	7944.1	-1.9			603.1	-1.9
	Q4	10106.6	21.4			767.2	21.4
Sum		**33340.5**		**2531.0**	**0.076**	**2531.0**	
2009/10 (2066/67)	Q1	8951.5				657.3	-16.7
	Q2	9737.0	8.1			715.0	8.1
	Q3	9138.7	-6.5			671.1	-6.5
	Q4	7721.8	-18.3			567.0	-18.3
Sum		**35549.0**		**2610.5**	**0.073**	**2610.5**	
2010/11 (2067/68)	Q1	9791.7				720.8	21.3
	Q2	9160.4	-6.9			674.4	-6.9
	Q3	8714.7	-5.1			641.6	-5.1
	Q4	8534.2	-2.1			628.3	-2.1
Sum		**36201.0**		**2665.0**	**0.074**	**2665.0**	76.4

* BI ratio: Benchmark-to-indicator ratio

Benchmarking of Gross Value Added at Constant Price of Modern and Small Manufacturing Sector *in thousand*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change	Denton**	Seasional Adjustment
2004/05 (2061/62)	Q1	105.0				8310328.1		8306896.42	8470175
	Q2	97.3	-7.9			7700098.9	-7.9	7698493.54	7692280
	Q3	100.8	3.4			7973463.3	3.4	7976879.71	8050605
	Q4	103.5	2.7			8191133.3	2.7	8192754.34	7967479
Sum		**406.7**		**32175024**	**79,113**	**32175023.7**		**32,175,024**	
2005/06 (2062/63)	Q1	101.7	-1.8			8036430.2	-1.9	8053154.87	8218420
	Q2	102.1	0.4			8064856.7	0.4	8078470.87	8073744
	Q3	102.7	0.6			8110530.3	0.6	8110205.51	8180114
	Q4	108.6	5.5			8579559.5	5.5	8549545.75	8310806
Sum		**415.0**		**32791377**	**79,007.5**	**32791376.7**		**32791377**	
2006/07 (2063/64)	Q1	104.1	-4.3			8399008.1	-2.1	8159728.25	8334957
	Q2	108.3	3.8			8733063.4	3.8	8572877.8	8572320
	Q3	102.8	-5.3			8291180.9	-5.3	8336598.72	8401800
	Q4	101.8	-1.0			8210862.7	-1.0	8564910.23	8316703
Sum		**417.0**		**33634115**	**80,655**	**33634115.1**		**33634115**	
2007/08 (2064/65)	Q1	89.9	-13.3			8082774.9	-1.6	7935110.38	8117807
	Q2	91.6	1.9			8236684.0	1.9	8298118.93	8301287
	Q3	90.7	-1.0			8153553.7	-1.0	8260509.17	8317131
	Q4	96.3	5.9			8662381.7	5.9	8641655.52	8385371
Sum		**368.5**		**33135394**	**89,931**	**33135394.3**		**33135394**	
2008/09 (2065/66)	Q1	93.3	-3.3			7,786,336	-11.3	8067046.79	8261623
	Q2	96.3	3.2			8,042,937	3.2	8086590.98	8094461
	Q3	98.1	1.8			8,186,760	1.8	8072662.14	8120878
	Q4	102.4	4.2			8,548,730	4.2	8338463.09	8086471
Sum		**390.1**		**32564763**	**83,477**	**32564763.0**		**32564763**	

* BI ratio: Benchmark-to-indicator ratio

**Denton: The proportional denton technique is used to solve the step problem.

Benchmarking of Gross Value Added at Constant Price of Household Level Manufacturing Sector

in '000

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change	Denton**	Seasonal Adjustment
2004/05 (2061/62)	Q1	19.7				1172302		1163464	1484344
	Q2	30.7	35.9			1827997	35.9	1825013	1486673
	Q3	30.0	-2.2			1788258	-2.2	1790014	1491141
	Q4	19.7	-52.5			1172302	-52.5	1182368	1500169
Sum		**100.0**		**5960860**	**59,609**	**5960860**		**5960860**	**5962327**
2005/06 (2062/63)	Q1	15.0	-31.1			916043	-28.0	1184945	1511740
	Q2	30.0	50.0			1832086	50.0	1868995	1522489
	Q3	35.0	14.3			2137434	14.3	1838377	1531446
	Q4	20.0	-75.0			1221391	-75.0	1214636	1541127
Sum		**100.0**		**6106953**	**61,070**	**6106953**		**6106953**	**6106802**
2006/07 (2063/64)	Q1	19.7	-1.7			1230470	0.7	1215577	1550797
	Q2	30.7	35.9			1918699	35.9	1915164	1560064
	Q3	30.0	-2.2			1876988	-2.2	1882476	1568219
	Q4	19.7	-52.5			1230470	-52.5	1243410	1577685
Sum		**100.0**		**6256627**	**62,566**	**6256627**		**6256627**	
2007/08 (2064/65)	Q1	19.7	0.0			1260627	2.4	1245370	1588759
	Q2	30.7	35.9			1965724	35.9	1962102	1598245
	Q3	30.0	-2.2			1922991	-2.2	1928614	1606682
	Q4	19.7	-52.5			1260627	-52.5	1273884	1616407
Sum		**100.0**		**6409970**	**64,100**	**6409970**		**6409970**	**6410093**
2008/09 (2065/66)	Q1	19.7	0.0			1291524	2.4	1275892	1627686
	Q2	30.7	35.9			2013902	35.9	2010191	1637411
	Q3	30.0	-2.2			1970121	-2.2	1975882	1646065
	Q4	19.7	-52.5			1291524	-52.5	1305106	1656044
Sum		**100.0**		**6567071**	**65,671**	**6567071**		**6567071**	**6567206**
2009/10 (2066/67)	Q1	19.7	0.0			1323178	2.4	1306080	1666177
	Q2	30.7	35.9			2063260	35.9	2058317	1676578
	Q3	30.0	-2.2			2018407	-2.2	2024688	1686739
	Q4	19.7	-52.5			1323178	-52.5	1338936	1699022
Sum		**100.0**		**6728022**	**67,280**	**6728022**		**6728022**	**6728516**
2010/11 (2067/68)	Q1	19.7	0.0			1355607	2.4	1341911	1711861
	Q2	30.7	35.9			2113828	35.9	2114171	1722049
	Q3	30.0	-2.2			2067875	-2.2	2073388	1727328
	Q4	19.7	-52.5			1355607	-52.5	1363448	1730165
Sum		**100.0**		**6892918**	**68,929**	**6892918**		**6892918**	**6891403**

* BI ratio: Benchmark-to-indicator ratio

**Denton: The proportional denton technique is used to solve the step problem.

Benchmarking of Gross Value Added at Constant Price of Electricity Sector *in thousand*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change	Denton**	Seasonal Adjustment
2004/05 (2061/62)	Q1	644.2				2740795.194		2758652.51	2404269
	Q2	611.3	-5.1			2600607.051	-5.1	2610627.36	2558408
	Q3	520.9	-14.8			2216206.483	-14.8	2212688.74	2877107
	Q4	623.1	19.6			2651066.273	19.6	2626706.4	2475756
Sum		**2399.5**		**10208675**	**4255**	**10208675**		**10208675.01**	
2005/06 (2062/63)	Q1	711.2	14.1			2991676.535	12.8	2967081.58	2577790
	Q2	634.7	-10.8			2669933.444	-10.8	2647263.64	2591963
	Q3	489.9	-22.8			2060602.76	-22.8	2061413.63	2696965
	Q4	685.8	40.0			2884709.261	40.0	2931163.16	2769373
Sum		**2521.7**		**10606922**	**4206**	**10606922**		**10606922.01**	
2006/07 (2063/64)	Q1	759.8	10.8			3380489.718	17.2	3328967.31	2869551
	Q2	675.9	-11.0			3007119.142	-11.0	3007813.49	2938776
	Q3	544.4	-19.5			2421970.213	-19.5	2441350.43	3240257
	Q4	744.8	36.8			3313619.368	36.8	3345066.77	3173665
Sum		**2724.9**		**12123198**	**4449**	**12123198.44**		**12123198**	
2007/08 (2064/65)	Q1	806.5	8.3			3551686.363	7.2	3596231.35	3062226
	Q2	725.1	-10.1			3192968.418	-10.1	3207941.38	3119593
	Q3	524.2	-27.7			2308283.479	-27.7	2297460.7	3115870
	Q4	727.0	38.7			3201555.454	38.7	3152861.56	3010671
Sum		**2782.8**		**12254494**	**4404**	**12254493.71**		**12254494.99**	
2008/09 (2065/66)	Q1	820.2	12.8			3484173.857	8.8	3497862.75	2928687
	Q2	687.1	-16.2			2918848.924	-16.2	2907712.98	2818043
	Q3	481.4	-29.9			2045161.075	-29.9	2037281.69	2833081
	Q4	748.1	55.4			3177977.425	55.4	3183303.58	3047494
Sum		**2736.9**		**11626161**	**4248**	**11626161.28**		**11626161**	
2009/10 (2066/67)	Q1	936.5	25.2			3960823.44	24.6	4040259.14	3336343
	Q2	809.6	-13.6			3423992.74	-13.6	3477124.2	3365269
	Q3	531.5	-34.3			2248065.788	-34.3	2236009.04	3173006
	Q4	788.3	48.3			3333780.821	48.3	3213270.62	3072136
Sum		**3065.9**		**12966663**	**4229**	**12966662.79**		**12966663**	
2010/11 (2067/68)	Q1	921.9	17.0			3434210.681	3.0	3575742.05	2928627
	Q2	785.8	-14.8			2927166.017	-14.8	2938519.53	2847174
	Q3	545.7	-30.6			2032611.387	-30.6	1991893.41	2861177
	Q4	864.5	58.4			3220359.417	58.4	3108193.01	2959435
Sum		**3118.0**		**11614348**	**3724.982842**	**11614347.5**		**11614348**	

* BI ratio: Benchmark-to-indicator ratio

**Denton: The proportional denton technique is used to solve the step problem.

Benchmarking of Gross Value Added at Constant Price of Water Sector *in thousand*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change	Denton**	Seasional Adjustment
2004/05 (2061/62)	Q1	15184.1				109801		113948	105698
	Q2	14306.4	-5.8			103454	-5.8	105760	106067
	Q3	12854.2	-10.2			92953	-10.2	92229	105392
	Q4	15544.3	20.9			112406	20.9	106677	101718
Sum		**57889.0**		**418614**	**7.23**	**418614**		**418614**	
2005/06 (2062/63)	Q1	16809.8	8.1			108465	-3.5	108184	100257
	Q2	15838.2	-5.8			102196	-5.8	99427	99522
	Q3	14230.5	-10.2			91822	-10.2	90689	103969
	Q4	17208.6	20.9			111039	20.9	115223	110045
Sum		**64087.0**		**413523**	**6.45**	**413523**		**413523**	
2006/07 (2063/64)	Q1	17971.2	4.4			140339	26.4	131075	121063
	Q2	16932.5	-5.8			132227	-5.8	130990	130863
	Q3	15213.7	-10.2			118805	-10.2	122192	140771
	Q4	18397.6	20.9			143668	20.9	150781	144338
Sum		**68515.0**		**535039**	**7.81**	**535039**		**535039**	
2007/08 (2064/65)	Q1	13158.4	-28.5			101892	-29.1	145161	133448
	Q2	14230.5	8.1			110194	8.1	135114	134712
	Q3	17511.7	23.1			135602	23.1	118444	137238
	Q4	24419.7	39.4			189094	39.4	138063	132344
Sum		**69320.3**		**536782**	**7.74**	**536782**		**536782**	
2008/09 (2065/66)	Q1	23055.0	-5.6			159820	-15.5	166619	152609
	Q2	19889.1	-13.7			137874	-13.7	138266	137633
	Q3	15564.3	-21.7			107894	-21.7	105481	122679
	Q4	19030.1	22.3			131919	22.3	127139	122056
Sum		**77538.5**		**537506**	**6.93**	**537506**		**537506**	

* BI ratio: Benchmark-to-indicator ratio

**Denton: The proportional denton technique is used to solve the step problem.

Benchmarking of Gross Value Added at Constant Price of Gas Sector *in thousand*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change	Denton**	Seasonal Adjustment
2004/05 (2061/62)	Q1	27.5				134648		131202	119019
	Q2	20.8	-24.4			101846	-24.4	100321	120543
	Q3	24.2	16.1			118247	16.1	118934	123050
	Q4	27.5	13.9			134648	13.9	138930	126422
Sum		**100.0**		**489387.8261**	**4894**	**489388**		**489387**	
2005/06 (2062/63)	Q1	27.5	0.0			149044	10.7	144139	130770
	Q2	20.8	-24.4			112734	-24.4	111976	134552
	Q3	24.2	16.1			130889	16.1	132851	137430
	Q4	27.5	13.9			149044	13.9	152743	138977
Sum		**100.0**		**541710.2945**	**5417**	**541710**		**541710**	
2006/07 (2063/64)	Q1	27.5	0.0			154313	3.5	153216	139045
	Q2	20.8	-24.4			116720	-24.4	116342	139800
	Q3	24.2	16.1			135517	16.1	135975	140625
	Q4	27.5	13.9			154313	13.9	155329	141308
Sum		**100.0**		**560863.4489**	**5609**	**560863**		**560863**	
2007/08 (2064/65)	Q1	27.5	0.0			157871	2.3	156635	142203
	Q2	20.8	-24.4			119411	-24.4	119027	143029
	Q3	24.2	16.1			138641	16.1	139165	143884
	Q4	27.5	13.9			157871	13.9	158967	144602
Sum		**100.0**		**573794.5277**	**5738**	**573795**		**573794**	
2008/09 (2065/66)	Q1	27.5	0.0			161429	2.3	160049	145347
	Q2	20.8	-24.4			122102	-24.4	121698	146244
	Q3	24.2	16.1			141766	16.1	142348	147141
	Q4	27.5	13.9			161429	13.9	162632	147924
Sum		**100.0**		**586726**	**5867**	**586726**		**586726**	
2009/10 (2066/67)	Q1	27.5	0.0			165067	2.3	163519	148536
	Q2	20.8	-24.4			124854	-24.4	124390	149484
	Q3	24.2	16.1			144960	16.1	145582	150468
	Q4	27.5	13.9			165067	13.9	166457	151399
Sum		**100.0**		**599948.1011**	**5999**	**599948**		**599948**	
2010/11 (2067/68)	Q1	27.5	0.0			168544	2.1	167530	152179
	Q2	20.8	-24.4			127485	-24.4	127302	152986
	Q3	24.2	16.1			148015	16.1	148599	153581
	Q4	27.5	13.9			168544	13.9	169156	153848
Sum		**100.0**		**612588**	**6126**	**612588**		**612588**	

* BI ratio: Benchmark-to-indicator ratio

**Denton: The proportional denton technique is used to solve the step problem.

Benchmarking of Gross Value Added at Constant Price of Construction Sector *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change	Denton**	Seasonal Adjustment
2004/05 (2061/62)	Q1	4754.7				6817.4		6796.28	6733
	Q2	4484.1	-6.0			6429.4	-6.0	6417.01	6426
	Q3	5171.9	13.3			7415.6	13.3	7418.13	7747
	Q4	5468.7	5.4			7841.1	5.4	7871.58	7564
Sum		**19879.3**		**28503.4**	**1.43**	**28503.4**		**28503.0**	**28470.0**
2005/06 (2062/63)	Q1	5377.2	-1.7			7629.2	-2.8	7777.52	7775
	Q2	5948.6	9.6			8439.9	9.6	8555.54	8564
	Q3	4957.8	-20.0			7034.1	-20.0	7007.11	7308
	Q4	5347.3	7.3			7586.8	7.3	7349.83	6979
Sum		**21630.9**		**30690.0**	**1.42**	**30690.0**		**30690.0**	**30626.0**
2006/07 (2063/64)	Q1	6086.0	12.1			7502.5	-1.1	8037.05	8185
	Q2	5604.4	-8.6			6908.7	-8.6	7099.28	7085
	Q3	5421.7	-3.4			6683.6	-3.4	6576.25	6852
	Q4	8402.5	35.5			10358.1	35.5	9740.41	9105
Sum		**25514.5**		**31452.9**	**1.23**	**31452.9**		**31453.0**	**31227.0**
2007/08 (2064/65)	Q1	6420.9	-30.9			6686.2	-54.9	7123.75	7383
	Q2	8039.1	20.1			8371.3	20.1	8544.72	8554
	Q3	8458.0	5.0			8807.5	5.0	8651.44	9004
	Q4	8813.6	4.0			9177.8	4.0	8723.08	7995
Sum		**31731.6**		**33042.8**	**1.04**	**33042.8**		**33043.0**	**32936.0**
2008/09 (2065/66)	Q1	7471.2	-18.0			7192.0	-27.6	7200.45	7614
	Q2	8412.2	11.2			8097.8	11.2	8007.74	8047
	Q3	8252.6	-1.9			7944.1	-1.9	7889.35	8169
	Q4	10499.1	21.4			10106.6	21.4	10243.46	9289
Sum		**34635.1**		**33340.5**	**0.96**	**33340.5**		**33341.0**	**33119.0**
2009/10 (2066/67)	Q1	8010.6	-31.1			8951.5	-12.9	8132.12	
	Q2	8713.6	8.1			9737.0	8.1	9103.43	
	Q3	8178.1	-6.5			9138.7	-6.5	8697.26	
	Q4	6910.2	-18.3			7721.8	-18.3	7408.19	
Sum		**31812.5**		**35549.0**	**1.12**	**35549.0**		**33341.00**	

* BI ratio: Benchmark-to-indicator ratio

**Denton: The proportional denton technique is used to solve the step problem.

Benchmarking of Gross Value Added at Constant Price of Hotel (Bed based) Sector *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change
2004/05 (2061/62)	Q1	57				1827	
	Q2	70	22.7			2242	22.7
	Q3	43	-39.5			1356	-39.5
	Q4	66	54.8			2100	54.8
Sum		**236.1**		7525	**31.865**	**7525**	
2005/06 (2062/63)	Q1	57	-13.0			1942	-7.5
	Q2	70	22.7			2384	22.7
	Q3	43	-39.5			1442	-39.5
	Q4	66	54.8			2233	54.8
Sum		**236.1**		8001	**33.882**	**8001**	
2006/07 (2063/64)	Q1	57	-13.0			2009	-10.0
	Q2	70	22.7			2467	22.7
	Q3	43	-39.5			1492	-39.5
	Q4	66	54.8			2310	54.8
Sum		**236.1**		8278	**35.056**	**8278**	
2007/08 (2064/65)	Q1	57	-13.0			2148	-7.0
	Q2	70	22.7			2637	22.7
	Q3	43	-39.5			1595	-39.5
	Q4	66	54.8			2470	54.8
Sum		**236.1**		8851	**37.482**	**8851**	
2008/09 (2065/66)	Q1	57	-13.0			2198	-11.0
	Q2	70	22.7			2698	22.7
	Q3	43	-39.5			1632	-39.5
	Q4	66	54.8			2527	54.8
Sum		**236.1**		9056	**38.350**	**9056**	
2009/10 (2066/67)	Q1	57	-13.0			2357	-6.7
	Q2	70	22.7			2894	22.7
	Q3	43	-39.5			1750	-39.5
	Q4	66	54.8			2710	54.8
Sum		**236.1**		9712	**41.128**	**9712**	

* BI ratio: Benchmark-to-indicator ratio

Benchmarking of Gross Value Added at Constant Price of Hotel (Tourist based) Sector *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change
2004/05 (2061/62)	Q1	83518				1840	
	Q2	110761	32.6			2440	32.6
	Q3	75690	-31.7			1668	-31.7
	Q4	71563	-5.5			1577	-5.5
Sum		**341532.0**		**7525**	**0.022**	**7525**	
2005/06 (2062/63)	Q1	96972	35.5			1611	2.2
	Q2	124474	28.4			2068	28.4
	Q3	129069	3.7			2144	3.7
	Q4	131173	1.6			2179	1.6
Sum		**481688.0**		**8001**	**0.017**	**8001**	
2006/07 (2063/64)	Q1	91695	-30.1			1633	-25.1
	Q2	116182	26.7			2069	26.7
	Q3	127151	9.4			2264	9.4
	Q4	129798	2.1			2312	2.1
Sum		**464826.0**		**8278**	**0.018**	**8278**	
2007/08 (2064/65)	Q1	125672	-3.2			1794	-22.4
	Q2	160879	28.0			2296	28.0
	Q3	168469	4.7			2405	4.7
	Q4	165073	-2.0			2356	-2.0
Sum		**620093.0**		**8851**	**0.014**	**8851**	
2008/09 (2065/66)	Q1	107060	-35.1			1691	-28.2
	Q2	148054	38.3			2339	38.3
	Q3	160442	8.4			2535	8.4
	Q4	157660	-1.7			2491	-1.7
Sum		**573216.0**		**9056**	**0.016**	**9056**	
2009/10 (2066/67)	Q1	113885	-27.8			2031	-18.5
	Q2	170444	49.7			3039	49.7
	Q3	154149	-9.6			2749	-9.6
	Q4	106201	-31.1			1894	-31.1
Sum		**544678.4**		**9712**	**0.018**	**9712**	

* BI ratio: Benchmark-to-indicator ratio

Benchmarking of Gross Value Added at Constant Price of Land Transport Sector *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change
2004/05 (2061/62)	Q1	23.40				6356	
	Q2	27.59	17.9			7496	17.9
	Q3	24.88	-9.8			6760	-9.8
	Q4	24.12	-3.1			6553	-3.1
Sum		**100.00**		**27166**	**271.672**	**27166**	
2005/06 (2062/63)	Q1	23.40	-3.0			6271	-4.3
	Q2	27.59	17.9			7396	17.9
	Q3	24.88	-9.8			6670	-9.8
	Q4	24.12	-3.1			6465	-3.1
Sum		**100.00**		**26802**	**268.032**	**26802**	
2006/07 (2063/64)	Q1	23.40	-3.0			6415	-0.8
	Q2	27.59	17.9			7566	17.9
	Q3	24.88	-9.8			6823	-9.8
	Q4	24.12	-3.1			6614	-3.1
Sum		**100.0**		**27418**	**274.193**	**27418**	
2007/08 (2064/65)	Q1	23.40	-3.0			6485	-1.9
	Q2	27.59	17.9			7648	17.9
	Q3	24.88	-9.8			6897	-9.8
	Q4	24.12	-3.1			6686	-3.1
Sum		**100.0**		**27717**	**277.183**	**27717**	
2008/09 (2065/66)	Q1	23.40	-3.0			6580	-1.6
	Q2	27.59	17.9			7761	17.9
	Q3	24.88	-9.8			6998	-9.8
	Q4	24.12	-3.1			6784	-3.1
Sum		**100.0**		**28124**	**281.253**	**28124**	
2009/10 (2066/67)	Q1	23.40	-3.0			6679	-1.6
	Q2	27.59	17.9			7877	17.9
	Q3	24.88	-9.8			7103	-9.8
	Q4	24.12	-3.1			6886	-3.1
Sum		**100.0**		**28546**	**285.473**	**28546**	

* BI ratio: Benchmark-to-indicator ratio

Benchmarking of Gross Value Added at Constant Price of Communication Sector *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change	Denton**	Seasonal Adjustment
2004/05 (2061/62)	Q1	1530.8				1372		1410	
	Q2	1621.5	5.9			1453	5.9	1478	4.9
	Q3	1694.5	4.5			1519	4.5	1513	2.3
	Q4	1714.4	1.2			1537	1.2	1480	-2.1
Sum		**6561.1**		**5881**	**0.896**	**5881**		**5881**	
2005/06 (2062/63)	Q1	1872.2	9.2			1440	-6.3	1542	4.2
	Q2	1961.0	4.7			1508	4.7	1544	0.1
	Q3	2060.0	5.0			1585	5.0	1555	0.7
	Q4	2472.4	20.0			1902	20.0	1794	15.4
Sum		**8365.6**		**6435**	**0.769**	**6435**		**6435**	
2006/07 (2063/64)	Q1	2557.9	3.5			1736	-8.7	1794	0.0
	Q2	2678.8	4.7			1818	4.7	1829	2.0
	Q3	2931.7	9.4			1990	9.4	1966	7.5
	Q4	3298.3	12.5			2239	12.5	2194	11.6
Sum		**11466.7**		**7783**	**0.679**	**7783**		**7783**	
2007/08 (2064/65)	Q1	3057.8	-7.3			2055	-8.2	2031	-7.4
	Q2	3246.8	6.2			2182	6.2	2171	6.9
	Q3	3737.4	15.1			2512	15.1	2518	16.0
	Q4	4228.5	13.1			2842	13.1	2872	14.1
Sum		**14270.5**		**9592**	**0.672**	**9592**		**9592**	
2008/09 (2065/66)	Q1	3663.2	-13.4			2513	-11.6	2510	-12.6
	Q2	3981.3	8.7			2732	8.7	2740	9.2
	Q3	4422.8	11.1			3034	11.1	3042	11.0
	Q4	4897.8	10.7			3360	10.7	3347	10.0
Sum		**16965.0**		**11640**	**0.686**	**11640**		**11640**	
2009/10 (2066/67)	Q1	4789.2	-2.2			3192	-5.0	3232	-3.5
	Q2	5072.1	5.9			3381	5.9	3389	4.9
	Q3	5336.4	5.2			3557	5.2	3541	4.5
	Q4	5610.9	5.1			3740	5.1	3710	4.8
Sum		**20808.6**		**13871**	**0.667**	**13871**		**13871**	

* BI ratio: Benchmark-to-indicator ratio

**Denton: The proportional denton technique is used to solve the step problem.

Benchmarking of Gross Value Added at Constant Price of Real Estate Sector *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change
2004/05 (2061/62)	Q1	1.97				6674	
	Q2	2.24	13.6			7582	13.6
	Q3	2.93	30.5			9898	30.5
	Q4	2.89	-1.2			9778	-1.2
Sum		**10.0**		**33932**	**3382.884**	**33932**	
2005/06 (2062/63)	Q1	1.8				6155	-37.1
	Q2	2.3	27.5			7849	27.5
	Q3	2.9	23.0			9654	23.0
	Q4	3.7	28.7			12426	28.7
Sum		**10.7**		**36085**	**3359.083**	**36085**	
2006/07 (2063/64)	Q1	1.0				4068	-67.3
	Q2	1.8	77.0			7200	77.0
	Q3	2.8	52.9			11011	52.9
	Q4	4.6	64.4			18106	64.4
Sum		**10.4**		**40385**	**3898.573**	**40385**	
2007/08 (2064/65)	Q1	2.2				7688	-57.5
	Q2	1.9	-10.5			6879	-10.5
	Q3	2.9	51.3			10409	51.3
	Q4	5.5	88.9			19659	88.9
Sum		**12.5**		**44636**	**3573.522**	**44636**	
2008/09 (2065/66)	Q1	3.3				7331	-62.7
	Q2	4.2	24.5			9126	24.5
	Q3	4.4	4.9			9572	4.9
	Q4	8.9	102.8			19417	102.8
Sum		**20.8**		**45446**	**2189.658**	**45446**	

* BI ratio: Benchmark-to-indicator ratio

Benchmarking of Gross Value Added at Constant Price of Finance Sector *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change
2004/05 (2061/62)	Q1	974				2583	
	Q2	1719	76.6			4562	76.6
	Q3	3103	80.5			8233	80.5
	Q4	1023	-67.0			2716	-67.0
Sum		**6818**		**18094**	**2.654**	**18094**	
2005/06 (2062/63)	Q1	948	-7.4			3198	17.8
	Q2	1393	47.0			4701	47.0
	Q3	2581	85.3			8709	85.3
	Q4	771	-70.1			2603	-70.1
Sum		**5694**		**19212**	**3.374**	**19212**	
2006/07 (2063/64)	Q1	1340	73.7			4075	56.6
	Q2	1556	16.2			4734	16.2
	Q3	1746	12.2			5311	12.2
	Q4	2427	39.0			7384	39.0
Sum		**7069**		**21505**	**3.042**	**21505**	
2007/08 (2064/65)	Q1	1615	-33.5			4866	-34.1
	Q2	1661	2.9			5007	2.9
	Q3	1855	11.6			5590	11.6
	Q4	2894	56.1			8723	56.1
Sum		**8024**		**24185**	**3.014**	**24185**	
2008/09 (2065/66)	Q1	1837	-36.5			5629	-35.5
	Q2	1903	3.6			5831	3.6
	Q3	2338	22.8			7163	22.8
	Q4	3505	49.9			10738	49.9
Sum		**9583**		**29362**	**3.064**	**29362**	
2009/10 (2066/67)	Q1	3948	12.6			11568	7.7
	Q2	1426	-63.9			4178	-63.9
	Q3	2863	100.8			8388	100.8
	Q4	3762	31.4			11022	31.4
Sum		**11998**		**35156**	**2.930**	**35156**	

* BI ratio: Benchmark-to-indicator ratio

Benchmarking of Gross Value Added at Constant Price of Public Administration Sector *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change	Denton**	Period to period change
2004/05 (2061/62)	Q1	651.0				2256.4		2213	
	Q2	564.0	-13.4			1954.8	-13.4	1933	-12.7
	Q3	601.0	6.6			2083.1	6.6	2091	8.2
	Q4	651.0	8.3			2256.4	8.3	2315	10.7
Sum		**2467.0**		**8551**	**3.47**	**8550.7**		**8551**	
2005/06 (2062/63)	Q1	651.0				2442.4	8.2	2383	3.0
	Q2	527.0	-19.0			1977.2	-19.0	1970	-17.4
	Q3	600.0	13.9			2251.0	13.9	2274	15.5
	Q4	658.0	9.7			2468.6	9.7	2512	10.4
Sum		**2436.0**		**9139**	**3.75**	**9139.2**		**9139**	
2006/07 (2063/64)	Q1	651.0				2474.3	0.2	2483	-1.1
	Q2	534.0	-18.0			2029.6	-18.0	2033	-18.1
	Q3	594.0	11.2			2257.6	11.2	2256	11.0
	Q4	658.0	10.8			2500.9	10.8	2490	10.4
Sum		**2437.0**		**9262**	**3.80**	**9262.4**		**9262**	
2007/08 (2064/65)	Q1	651.0				2490.0	-0.4	2458	-1.3
	Q2	519.0	-20.3			1985.1	-20.3	1966	-20.0
	Q3	608.5	17.2			2327.5	17.2	2329	18.5
	Q4	658.0	8.1			2516.8	8.1	2566	10.2
Sum		2436.5		**9319**	3.82	**9319.4**		**9319**	
2008/09 (2065/66)	Q1	651.0				2681.7	6.6	2611	1.8
	Q2	513.0	-21.2			2113.2	-21.2	2101	-19.5
	Q3	608.5	18.6			2506.6	18.6	2532	20.5
	Q4	658.0	8.1			2710.5	8.1	2768	9.3
Sum		**2430.5**		**10012**	**4.12**	**10012.0**		**10012**	
2009/10 (2066/67)	Q1	658.0				2814.3	3.8	2783	0.5
	Q2	518.5	-21.2			2217.7	-21.2	2208	-20.7
	Q3	608.5	17.4			2602.6	17.4	2611	18.2
	Q4	658.0	8.1			2814.3	8.1	2847	9.1
Sum		**2443.0**		**10449**	**4.28**	**10449.0**		**10449**	
2010/11 (2067/68)	Q1	651.0				2868.1	1.9	2844	-0.1
	Q2	525.0	-19.4			2313.0	-19.4	2310	-18.8
	Q3	608.5	15.9			2680.9	15.9	2690	16.5
	Q4	658.0	8.1			2899.0	8.1	2917	8.4
Sum		**2442.5**		**10761**	**4.41**	**10761.0**		**10761**	

* BI ratio: Benchmark-to-indicator ratio

**Denton: The proportional denton technique is used to solve the step problem.

Benchmarking of Gross Value Added at Constant Price of Pulic Education Sector *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change
2004/05 (2061/62)	Q1	189				3211	
	Q2	250			32.73	4262	32.73
	Q3	228			-9.12	3874	-9.12
	Q4	282			23.90	4800	23.90
Sum		**948**	**16147**	**17**		**16147**	
2005/06 (2062/63)	Q1	179				3108	-35.25
	Q2	327			82.42	5669	82.42
	Q3	206			-37.11	3565	-37.11
	Q4	266			29.46	4615	29.46
Sum		**978**	**16957**	**17**		**16957**	
2006/07 (2063/64)	Q1	174				3212	-30.41
	Q2	298			71.62	5512	71.62
	Q3	248			-16.88	4582	-16.88
	Q4	231			-6.87	4267	-6.87
Sum		**950**	**17573**	**18**		**17573**	
2007/08 (2064/65)	Q1	187				3479	-18.47
	Q2	339			81.14	6302	81.14
	Q3	216			-36.11	4026	-36.11
	Q4	242			11.96	4508	11.96
Sum		**985**	**18315**	**19**		**18315**	
2008/09 (2065/66)	Q1	178				3774	-16.28
	Q2	322			80.29	6804	80.29
	Q3	221			-31.22	4680	-31.22
	Q4	258			16.48	5451	16.48
Sum		**979**	**20709**	**21**		**20709**	
2009/10 (2066/67)	Q1	171				3731	-31.55
	Q2	304			77.53	6624	77.53
	Q3	212			-30.18	4625	-30.18
	Q4	263			23.76	5724	23.76
Sum		**951**	**20704**	**22**		**20704**	

* BI ratio: Benchmark-to-indicator ratio

Benchmarking of Gross Value Added at Constant Price of Private Education Sector *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change
2004/05 (2061/62)	Q1	234				634	
	Q2	253			8.06	685	8.06
	Q3	252			-0.38	683	-0.38
	Q4	315			24.66	851	24.66
Sum		**1055**	**2854**	**3**		**2854**	
2005/06 (2062/63)	Q1	261				741	-12.94
	Q2	344			31.95	978	31.95
	Q3	244			-28.99	694	-28.99
	Q4	283			15.78	804	15.78
Sum		**1131**	**3217**	**3**		**3217**	
2006/07 (2063/64)	Q1	234				754	-6.24
	Q2	302			29.06	973	29.06
	Q3	291			-3.70	937	-3.70
	Q4	258			-11.38	830	-11.38
Sum		**1086**	**3494**	**3**		**3494**	
2007/08 (2064/65)	Q1	242				809	-2.60
	Q2	361			49.16	1206	49.16
	Q3	256			-29.07	856	-29.07
	Q4	274			6.76	913	6.76
Sum		**1133**	**3784**	**3**		**3784**	
2008/09 (2065/66)	Q1	257				972	6.42
	Q2	346			34.57	1308	34.57
	Q3	279			-19.49	1053	-19.49
	Q4	283			1.49	1069	1.49
Sum		**1165**	**4402**	**4**		**4402**	
2009/10 (2066/67)	Q1	254				1166	9.08
	Q2	332			30.52	1522	30.52
	Q3	274			-17.56	1255	-17.56
	Q4	292			6.86	1341	6.86
Sum		**1152**	**5283**	**5**		**5283**	

* BI ratio: Benchmark-to-indicator ratio

Benchmarking of Gross Value Added at Constant Price of Tertiary Education Sector *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change
2004/05 (2061/62)	Q1	281				1559	
	Q2	324			15.50	1801	15.50
	Q3	277			-14.59	1538	-14.59
	Q4	185			-33.30	1026	-33.30
Sum		**1066**	**5925**	**6**		**5925**	
2005/06 (2062/63)	Q1	281				1490	45.22
	Q2	324			15.50	1721	15.50
	Q3	277			-14.59	1470	-14.59
	Q4	185			-33.30	981	-33.30
Sum		**1066**	**5662**	**5**		**5662**	
2006/07 (2063/64)	Q1	281				1767	80.24
	Q2	324			15.50	2041	15.50
	Q3	277			-14.59	1744	-14.59
	Q4	185			-33.30	1163	-33.30
Sum		**1066**	**6715**	**6**		**6715**	
2007/08 (2064/65)	Q1	281				1961	68.64
	Q2	324			15.50	2265	15.50
	Q3	277			-14.59	1935	-14.59
	Q4	185			-33.30	1291	-33.30
Sum		**1066**	**7452**	**7**		**7452**	
2008/09 (2065/66)	Q1	281				2070	60.42
	Q2	324			15.50	2391	15.50
	Q3	277			-14.59	2042	-14.59
	Q4	185			-33.30	1362	-33.30
Sum		**1066**	**7866**	**7**		**7866**	
2009/10 (2066/67)	Q1	281				2443	79.30
	Q2	324			15.50	2821	15.50
	Q3	277			-14.59	2410	-14.59
	Q4	185			-33.30	1607	-33.30
Sum		**1066**	**9281**	**9**		**9281**	

* BI ratio: Benchmark-to-indicator ratio

Benchmarking of Gross Value Added at Constant Price of Engineering Education Sector *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change
2004/05 (2061/62)	Q1	56				19	
	Q2	53			-6.46	18	-6.46
	Q3	53			0.79	18	0.79
	Q4	65			22.61	22	22.61
Sum		**227**	**77**	**0.3**		**77**	
2005/06 (2062/63)	Q1	56				17	-20.60
	Q2	53			-5.25	17	-5.25
	Q3	53			0.54	17	0.54
	Q4	65			21.95	20	21.95
Sum		**227**	**71**	**0.3**		**71**	
2006/07 (2063/64)	Q1	51				15	-24.02
	Q2	57			13.29	17	13.29
	Q3	55			-4.71	17	-4.71
	Q4	64			16.48	19	16.48
Sum		**226**	**69**	**0.3**		**69**	
2007/08 (2064/65)	Q1	57				17	-11.86
	Q2	55			-1.99	17	-1.99
	Q3	64			15.15	19	15.15
	Q4	69			7.72	21	7.72
Sum		**245**	**74**	**0.3**		**74**	
2008/09 (2065/66)	Q1	53				18	-14.22
	Q2	57			7.89	19	7.89
	Q3	58			1.37	19	1.37
	Q4	65			11.76	22	11.76
Sum		**232**	**78**	**0.3**		**78**	
2009/10 (2066/67)	Q1	53				22	-0.84
	Q2	56			4.97	23	4.97
	Q3	65			16.37	26	16.37
	Q4	65			0.09	26	0.09
Sum		**238**	**97**	**0.4**		**97**	

* BI ratio: Benchmark-to-indicator ratio

Benchmarking of Gross Value Added at Constant Price of Medical Education Sector *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change
2004/05 (2061/62)	Q1	62.00				194	
	Q2	45.00			-27.42	141	-27.42
	Q3	59.00			31.11	185	31.11
	Q4	68.00			15.25	213	15.25
Sum		**234**	**733**	**3**		**733**	
2005/06 (2062/63)	Q1	62.00				180	-15.65
	Q2	45.00			-27.42	130	-27.42
	Q3	59.00			31.11	171	31.11
	Q4	68.00			15.25	197	15.25
Sum		**234**	**678**	**3**		**678**	
2006/07 (2063/64)	Q1	62.00				188	-4.50
	Q2	45.00			-27.42	137	-27.42
	Q3	59.00			31.11	179	31.11
	Q4	68.00			15.25	206	15.25
Sum		**234**	**710**	**3**		**710**	
2007/08 (2064/65)	Q1	62.00				216	4.42
	Q2	45.00			-27.42	156	-27.42
	Q3	59.00			31.11	205	31.11
	Q4	68.00			15.25	236	15.25
Sum		**234**	**813**	**3**		**813**	
2008/09 (2065/66)	Q1	62.00				229	-3.02
	Q2	45.00			-27.42	166	-27.42
	Q3	59.00			31.11	218	31.11
	Q4	68.00			15.25	251	15.25
Sum		**234**	**865**	**4**		**865**	
2009/10 (2066/67)	Q1	62.00				256	1.82
	Q2	45.00			-27.42	186	-27.42
	Q3	59.00			31.11	244	31.11
	Q4	68.00			15.25	281	15.25
Sum		**234**	**966**	**4**		**966**	

* BI ratio: Benchmark-to-indicator ratio

Benchmarking of Gross Value Added at Constant Price of Private Health Sector *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change
2004/05 (2061/62)	Q1	24.6				610	
	Q2	23.7	-3.7			588	-3.7
	Q3	24.7	4.2			612	4.2
	Q4	26.9	9.0			667	9.0
Sum		**100.0**		**2477**	**24.77**	**2477**	
2005/06 (2062/63)	Q1	24.6				651	-2.4
	Q2	23.7	-3.7			626	-3.7
	Q3	24.7	4.2			652	4.2
	Q4	26.9	9.0			711	9.0
Sum		**100.0**		**2641**	**26.41**	**2641**	
2006/07 (2063/64)	Q1	24.6				670	-5.7
	Q2	23.7	-3.7			645	-3.7
	Q3	24.7	4.2			672	4.2
	Q4	26.9	9.0			733	9.0
Sum		**100.0**		**2721**	**27.21**	**2721**	
2007/08 (2064/65)	Q1	24.6				730	-0.3
	Q2	23.7	-3.7			703	-3.7
	Q3	24.7	4.2			732	4.2
	Q4	26.9	9.0			798	9.0
Sum		100.0		**2963**	**29.63**	2963	
2008/09 (2065/66)	Q1	24.6				780	-2.3
	Q2	23.7	-3.7			751	-3.7
	Q3	24.7	4.2			782	4.2
	Q4	26.9	9.0			852	9.0
Sum		**100.0**		**3165**	**31.65**	**3165**	
2009/10 (2066/67)	Q1	24.6				813	-4.6
	Q2	23.7	-3.7			783	-3.7
	Q3	24.7	4.2			815	4.2
	Q4	26.9	9.0			889	9.0
Sum		**100.0**		**3300**	**33.00**	**3300**	
2010/11 (2067/68)	Q1	24.6				861	-3.1
	Q2	23.7	-3.7			829	-3.7
	Q3	24.7	4.2			863	4.2
	Q4	26.9	9.0			941	9.0
Sum		100.0		**3494**	**34.94**	**3494**	

* BI ratio: Benchmark-to-indicator ratio

Benchmarking of Gross Value Added at Constant Price of Public Health Sector *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change
2004/05 (2061/62)	Q1	651.0				563	
	Q2	564.0	-13.4			488	-13.4
	Q3	601.0	6.6			520	6.6
	Q4	651.0	8.3			563	8.3
Sum		**2467.0**		**2133**	**0.86**	**2133**	
2005/06 (2062/63)	Q1	651.0				595	5.6
	Q2	527.0	-19.0			481	-19.0
	Q3	600.0	13.9			548	13.9
	Q4	658.0	9.7			601	9.7
Sum		**2436.0**		**2225**	**0.91**	**2225**	
2006/07 (2063/64)	Q1	651.0				658	9.6
	Q2	534.0	-18.0			540	-18.0
	Q3	594.0	11.2			601	11.2
	Q4	658.0	10.8			666	10.8
Sum		**2437.0**		**2465**	**1.01**	**2465**	
2007/08 (2064/65)	Q1	651.0				765	14.9
	Q2	519.0	-20.3			610	-20.3
	Q3	608.5	17.2			715	17.2
	Q4	658.0	8.1			773	8.1
Sum		**2436.5**		**2861**	**1.17**	**2861**	
2008/09 (2065/66)	Q1	651.0				918	18.8
	Q2	513.0	-21.2			723	-21.2
	Q3	608.5	18.6			858	18.6
	Q4	658.0	8.1			928	8.1
Sum		**2430.5**		**3428**	**1.41**	**3428**	
2009/10 (2066/67)	Q1	658.0				963	3.8
	Q2	518.5	-21.2			759	-21.2
	Q3	608.5	17.4			890	17.4
	Q4	658.0	8.1			963	8.1
Sum		**2443.0**		**3575**	**1.46**	**3575**	
2010/11 (2067/68)	Q1	651.0				1009	4.8
	Q2	525.0	-19.4			814	-19.4
	Q3	608.5	15.9			943	15.9
	Q4	658.0	8.1			1020	8.1
		2442.5		**3785**	**1.55**	**3785**	

* BI ratio: Benchmark-to-indicator ratio

Benchmarking of Gross Value Added at Constant Price of Community Sector

in million

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change	Denton**	Period to period change
2004/05 (2061/62)	Q1	651.0				2131		2155	
	Q2	564.0	-13.4			1846	-13.4	1858	-13.8
	Q3	601.0	6.6			1967	6.6	1963	5.6
	Q4	651.0	8.3			2131	8.3	2098	6.9
Sum		**2467.0**		**8074**	**3.27**	**8074**		**8074**	
2005/06 (2062/63)	Q1	651.0				2074	-2.7	2060	-20.8
	Q2	527.0	-19.0			1679	-19.0	1661	14.7
	Q3	600.0	13.9			1911	13.9	1905	11.9
	Q4	658.0	9.7			2096	9.7	2132	2.3
Sum		**2436.0**		**7759**	**3.19**	**7759**		**7759**	
2006/07 (2063/64)	Q1	651.0				2240	6.9	2182	-5.2
	Q2	534.0	-18.0			1838	-18.0	1831	11.5
	Q3	594.0	11.2			2044	11.2	2068	-1.0
	Q4	658.0	10.8			2264	10.8	2305	-19.8
Sum		**2437.0**		**8386**	**3.44**	**8386**		**8386**	
2007/08 (2064/65)	Q1	651.0				2316	2.3	2282	30.2
	Q2	519.0	-20.3			1846	-20.3	1831	1.5
	Q3	608.5	17.2			2165	17.2	2170	-19.3
	Q4	658.0	8.1			2341	8.1	2385	21.6
Sum		**2436.5**		**8668**	**3.56**	**8668**		**8668**	
2008/09 (2065/66)	Q1	651.0				2514	7.4	2420	14.2
	Q2	513.0	-21.2			1981	-21.2	1953	-19.0
	Q3	608.5	18.6			2350	18.6	2375	20.5
	Q4	658.0	8.1			2541	8.1	2637	10.9
Sum		**2430.5**		**9385**	**3.86**	**9385**		**9385**	
2009/10 (2066/67)	Q1	658				2825	11.2	2713	12.4
	Q2	518.5	-21.2			2226	-21.2	2196	-18.0
	Q3	608.5	17.4			2612	17.4	2646	17.3
	Q4	658	8.1			2825	8.1	2933	8.8
Sum		**2443**		**10488**	**4.29**	**10488**		**10488**	
2010/11 (2067/68)	Q1	651				3035	7.4	2973	-100.0
	Q2	525	-19.4			2447	-19.4	2439	-18.0
	Q3	608.5	15.9			2837	15.9	2861	17.3
	Q4	658	8.1			3067	8.1	3113	8.8
Sum		**2442.5**		**11386**	**4.66**	**11386**		**11386**	

* BI ratio: Benchmark-to-indicator ratio

**Denton: The proportional denton technique is used to solve the step problem.

Benchmarking of Taxes on Product *in million*

Years	Quarter	Indicator (1)	Percentage Change	Annual data (2)	Annual BI* Ratio (3)	Distributed Data 1*3	Period to period change
2004/05 (2061/62)	Q1	6724.1				7391	
	Q2	7672.6	14.1			8433	14.1
	Q3	7200.1	-6.2			7914	-6.2
	Q4	9857.9	36.9			10835	36.9
Sum		**31454.8**		**34574**	**1.099**	**34574**	
2005/06 (2062/63)	Q1	7112.9				7870	-27.4
	Q2	8591.9	20.8			9507	20.8
	Q3	6960.6	-19.0			7702	-19.0
	Q4	8108.6	16.5			8972	16.5
Sum		**30774.1**		**34051**	**1.106**	**34051**	
2006/07 (2063/64)	Q1	7292.3				7812	-12.9
	Q2	8819.0	20.9			9447	20.9
	Q3	8585.3	-2.7			9197	-2.7
	Q4	11139.2	29.7			11932	29.7
Sum		**35835.8**		**38388**	**1.071**	**38388**	
2007/08 (2064/65)	Q1	9101.6				9712	-18.6
	Q2	9783.0	7.5			10440	7.5
	Q3	8876.5	-9.3			9472	-9.3
	Q4	11838.0	33.4			12633	33.4
Sum		**39599.1**		**42257**	**1.067**	**42257**	
2008/09 (2065/66)	Q1	7384.1				7651	-39.4
	Q2	10883.6	47.4			11278	47.4
	Q3	11604.4	6.6			12025	6.6
	Q4	15924.7				16501	37.2
Sum		**45796.7**		**47455**	**1.036**	**47455**	

* BI ratio: Benchmark-to-indicator ratio

Annex 2

QNA Related Studies and Surveys

Questionnaires

Central Bureau of Statistics
National Accounts Section
QNA Program for FY 2066/67[1]

SN	Sector/Activity	Data collection procedure
1.	**Agriculture and Fishery**	
	(a) Agriculture production	Collect quarterly information on production in Form # 0/1 from District Agriculture Development Office (DADO) for all Tarai districts. For Hill and Mountain region fill in the same Form for district with BSO only
	(b) Milk	Fill in Form # 0/2 for all dairy establishment (exclude chilling and collection centers) in the district
	(c)Fish and meat production	Fill in Form # 0/3 from any two major butcher shops in district with BSO Likewise, fill in Form # 0/3 from any two major fish shops in district with BSO
2	**Hotel**	
	Star Hotels	Collect information in Form # 0/4 for all the hotel of star 1-5 category from the list provided
3.	**Transport**	
	(a) Land Transport	From Zonal Transport Office collect information on monthly vehicle registration in Form # 0/5
	(b) Air transport	From the list of airways offices provided collect information in Form # 0/6
4.	**House and land development**	
	Land and housing development	Collect information in Form # 0/7 from Land Registration Office for those districts only where BSO is located. If more than one Land Registration offices are there, choose one with higher transaction
5.	**Health**	
	Private hospitals and nursing homes	From district with BSO only fill in the Form # 0/8 for any two private hospitals or nursing home. Government hospital and medical colleges are not to be taken

Note:

1 Necessary lists, forms and questionnaires will be provided by the National Accounts Section/CBS either in printed or electronic form.

2 For a given quarter the form/ questionnaire should be filled within 30 days after the termination of the quarter and sent to CBS not later than 45 after the termination of the quarter.

For Q1 report to CBS not later than 15 Marga (Nepali month: 15 July-15 Oct.)
Q2 -do- 15 Falgu
Q3 -do- 15 Jesth
Q4 -do- 15 Bhadra

[1] FY 2009/10

Form No	0	1

Central Bureau of Statistics

National Accounts Section

QNA Forms for BSO

BSO Name			
District		**Dist. code**	
Ref. year	**2066/67**	**Activity**	**Agri. & Forest**
Quarter	**I**		

SN	Commodity	Monthly production (mt)*			Percentage change compared to last year		
		Shrawan (July-Aug)	Bhadra	Aswin	Shrawan	Bhadra	Aswin
1	Paddy						
2	Maize						
3	Wheat						
4	Millet						
5	Mustard						
6	Potato						
7	Finger Millet						
8	Barley/Oat						

* **Quantity harvested per month**

Enu. name									Sgn.: … … … … …
Date	2	0	6	6					
Sup. Name									… … … … …
Date	2	0	6	6					

Form No	0	2

Central Bureau of Statistics

National Accounts Section

QNA Forms for BSO

BSO Name			
District		**Dist. code**	
Ref. year	**2066/67**	**Activity**	**Agri. & Forest**
Quarter	**I**		

Name of Dairy

SN	Commodity	Monthly collected quantity© (Liters)		
		Shrawan	Bhadra	Ashwin
1	Milk			

©Quantity collected by the dairy only

Enu. name … Sgn.: … … … … …

Date 2 0 6 6

Sup. Name … … … … …

Date 2 0 6 6

Form No	0	3

Central Bureau of Statistics

National Accounts Section

QNA Forms for BSO

BSO Name

District **Dist. code**

Ref. year 2066/67 **Activity** Agri. & Forest

Quarter I

Name of meat shop

SN.	Commodity	Shrawn		Bhadra		Ashwin	
		Qty. sold (kg)	Rate NRs Per Kg	Qty. sold (kg)	Rate NRs Per Kg	Qty. sold (kg)	Rate NRs Per Kg
1	Mutton						
2	Chicken						
3	Buffalo meat						
4	Fish						

Enu. name Sgn.: … … … … …

Date 2 0 6 6

Sup. Name … … … … …

Date 2 0 6 6

Form No	0	4

Central Bureau of Statistics

National Accounts Section

QNA Forms for BSO

BSO Name

District **Dist. code**

Ref. year 2066/67 **Activity** Hotel & Restaurant

Quarter I

Name of Hotel

SN	Hotel type	Bed nos.	Monthly occupancy rate (in percent)		
			Shrawan	Bhadra	Ashwin
1	Five star				
2	Four star				
3	Three star				
4	Two star				
5	One star				

Enu. name Sgn.: … … … … …

Date 2 0 6 6

Sup. Name … … … … …

Date 2 0 6 6

Form No	0	5

Central Bureau of Statistics

National Accounts Section

QNA Forms for BSO

BSO Name			
District		**Dist. code**	
Ref. year	**2066/67**	**Activity**	**Land transport**
Quarter	**I**		
Zonal Transport Office			

SN	Type of vehicle©	Monthly new registration nos.		
		Shrawan	Bhadra	Ashwin
1	Bus			
2	Mini bus			
3	Micro bus			
4	Van			
5	Truck			
6	Mini truck			
7	Taxi/jeep			
8	Tempo			
9	Tractor			
10	Tourist vehicle			

© Only for commercial purpose

Enu. name Sgn.: … … … … …

Date 2 0 6 6

Sup. Name … … … … …

Date 2 0 6 6

Form No	0	6

Central Bureau of Statistics

National Accounts Section

QNA Forms for BSO

BSO Name			
District		**Dist. code**	
Ref. year	**2066/67**	**Activity**	**Air transport**
Quarter	**I**		
Name of Airways Company			

SN	विवरण	Months		
		Shrawan	**Bhadra**	**Ashwin**
1	Passenger nos.			
2	Cargo volume (mt)			

Enu. name Sgn.: ... ...

Date 2 0 6 6

Sup. Name ... ...

Date 2 0 6 6

Form No	0	7

Central Bureau of Statistics

National Accounts Section

QNA Forms for BSO

BSO Name			
District		**Dist. code**	
Ref. year	**2066/67**	**Activity**	**Real Estate**
Quarter	**I**		
Land Reg. Office			

SN	Description	Month		
		Shrawan	Bhadra	Ashwin
1	House/land registration nos.			
2	Monthly revenue (NRs '000)			

Enu. name Sgn.: … … … … …

Date 2 0 6 6

Sup. Name … … … … …

Date 2 0 6 6

Form No	0	8

Central Bureau of Statistics

National Accounts Section

QNA Forms for BSO

BSO Name			
District		**Dist. code**	
Ref. year	**2066/67**	**Activity**	**Health**
Quarter	**I**		
Private hospital/nursing home			
Bed nos.			

SN.	Description	Month		
		Shrawan	Bhadra	Ashwin
1	Admitted patient nos.			
2	Out Patients Snos			

Enu. name								Sgn.: … … … … …
Date	2	0	6	6				
Sup. Name								… … … … …
Date	2	0	6	6				

Annex 3

Nepal Vegetable Crops Survey 2009/10 Questionnaires

Form 1 Page No. …… of Total Page …….

Government of Nepal
National Planning Commission Secretariat
Central Bureau of Statistics

Vegetable Crops Survey 2009

Listing Sheet of Vegetable Farming Household

1.1 Geographical Identification of Enumeration Area

1. Survey Domain: ……..
2. District: ……..
3. Municipality/V.D.C.: …….
4. Ward No.
5. Enumeration Area Serial Number
6. Team Number

Confidential

All information collected in this questionnaire will be confidential as per Statistical Act 2015 and will be used for statistical purposes only.

Responsibility

All households related to this survey are obliged to provide information required in the questionnaire to Central Bureau of Statistics

1.2 Selection of Agricultural Household with Vegetable Farming

Total Number of Agricultural Households of Column 13 (N_1) = …….
Total Number of Agricultural Households of Column 14 (N_2) = …….
Total Number of Agricultural Households of Column 15 (N_3) = …….
Total Number of Agricultural Households of Column 16 (N_4) = …….
Total Number of Agricultural Households **(N) = $N_1+N_2+N_3+N_4$ =** ……

Total Number of Agricultural Households to be selected (n) = 15
Sampling Interval (I) = Last Serial Number of Column 6 (N) ÷15 = …….
First Selection (A) = …….
If the First Selection is "A" and Sampling Interval is "I",
List of Selected Household will be A, A+I, A+2I, A+3I, ……..

1.3 Classification of Household Listing and Record of Selected Households with Vegetable Farming

House Serial Number	Household Serial Number	Name of Household Head	Address (Village/Settlement)	Land area of at least 2 Ana or 4 Dhur under Vegetable Crops Yes 1 No 2 (If no, proceed to next household)	Serial Number of Vegetable Crops Holder if answer is "Yes" in column 5	Name of Vegetable Crops Holder	Total number of parcels under vegetable crops	Unit of Land Area Bigha 1 Ropani 2	Total Area under Vegetable Crops			Household Serial Number of Holder operating 2 Ana/4 Dhur and more but less than 8 Ana/10 Dhur of land for Vegetable Crops	Household Serial Number of Holder operating 8 Ana/10 Dhur and more but less than 1 Ropani/1 Kaththa of land for Vegetable Crops	Household Serial Number of Holder operating 1 Ropani/1 Kaththa and more but less than 5 Ropani/5 Kaththa of land for Vegetable Crops	Household Serial Number of Holder operating 5 Ropani/5 Kaththa and more land for Vegetable Crops
									B/R	K/A	D/P	**To be filled by Supervisor after the Completion of Household Listing**			
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**

Name of Enumerator: ……. Date: ……. Signature: ……. Name of Supervisor: ……. Date: ……. Signature: …….

Form 1A

Government of Nepal National Planning Commission Secretariat Central Bureau of Statistics **Vegetable Crops Survey 2009** ***Selected Agricultural Households with Vegetable Crops***	**1.1 Geographical Identification of Enumeration Area** 1. Survey Domain: ……. 2. District: ……. 3. Municipality/V.D.C.: ……. 4. Ward No. 5. Enumeration Area Serial Number 6. Team Number

1.2 Selected Agricultural Households with Vegetable Crops

Total No. of Agricultural Households in Enumeration Area (N) = …….
Sampling Interval (I) = …….
First Random Start (A) = …….
Total Number of Agricultural Households to be sampled (n) = 15

Name of Supervisor involved in Sample Selection: …….
Signature: …….
Date: …….

1.3 List of Selected Agricultural Households with Vegetable Crops

Serial Number	Serial Number of Vegetable Crops Holder (From Column No. 6 of Form No. 1)	Name of Vegetable Crops Holder	Address (Village/Settlement)	Remarks	Serial Number	Serial Number of Vegetable Crops Holder (From Column No. 6 of Form No. 1)	Name of Vegetable Crops Holder	Address (Village/Settlement)	Remarks
1	2	3	4	5	1	2	3	4	5
1					11				
2					12				
3					13				
4					14				
5					15				
6					16				
7					17				
8					18				
9					19				
10					20				

Form - 2 Form Serial No. | | | | |

Government of Nepal

National Planning Commission Secretariat

Central Bureau of Statistics

Vegetable Crops Survey 2009

Household Survey Questionnaire

Confidential

All information collected in this questionnaire will be confidential as per Statistical Act 2015 and will be used for statistical purposes only.

Responsibility

All households related to this survey are obliged to provide information required in the questionnaire to Central Bureau of Statistics.

Part I - Introductory Description

Team No. |

1	Survey Domain …….			
2	District …….			
3	Municipality/V.D.C. …….			
4	Ward No.			
5	Village/Settlement ……			
6	Enumeration Area Serial No.			
7	Agricultural Household Serial No. (From Form 1)			
8	Selected Agricultural Household Serial No. (From Form 1A)			
9	Name of Respondent ……			
10	Name of Holder ……			
11	Caste/Ethnicity of Holder ……			
12	Sex of Holder			
13	Total Members of Household including Holder	Total	Male	Female
14	Education of Holder ……			

15 What is the main source of income of holder's household?

1 Vegetable Farming 2 Other Farming 3 Livestock/Poultry

4 Trade/Business 5 Transport Service 6 Salary/Wages 7 Others

16 What is the main purpose of vegetable farming?

1 Household Consumption 2 Commercial/Sale

Name and Signature of Enumerator: … … …. …. …	Name and Signature of Supervisor: … … …. …. …
Date of Enumeration: … … …. …. …. ….	Date of Supervision: … … …. …. …. ….

Part II - Area and Use of Land by Parcel

Area Unit : 1 Bigha 2 Ropani

S. No.	Name of Parcel	Code	Area			Land Use	Irrigation Facility	Source of Irrigation	Land Ownership
			B/R	K/A	D/P				
1	2	3	4	5	6	7	8	9	10
1		1							
2		2							
3		3							
4		4							
5		5							
6		6							
7		7							
8		8							
9		9							
10		10							
11		11							
12		12							
13		13							
14		14							
15		15							
16		16							
17		17							
18		18							
19		19							
20		20							
21		21							
22		22							
23		23							
24		24							
25		25							
Total Area		99							

Codes

Land Use	
Land under Vegetable Crops at least once in a Reference Period	1
Land under Other Crops	2

Irrigation Facility	
Yes	1
No	2

Source of Irrigation	
Continuous Flow, Canal	1
Natural Flow, Canal	2
Pond/Well	3
Tube well/Boring	4
Drip Irrigation	5
Others	6

Land Ownership	
Own	1
Rented-in	2
Others	3

Part III - Description of Employment and Current/Capital Expenditure

3.1 Family and Permanent/Temporary Workers engaged in Vegetable Farming

S. No.	Type of Labour	No. of Workers			Female Wage Rate (Rs.)		Male Wage rate (Rs.)	
		Total	Female	Male	Monthly	Daily	Monthly	Daily
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
1	Family worker							
2	Permanent worker							
3	Temporary worker*							

* In case of Temporary Worker : Copy down the no. of total mandays from 3.3 "Current Expenditure on Vegetable Farming" Column No. 8 and 9.

3.2 Description of Capital Expenditure on Vegetable Farming

S. No.	Description of Capital Expenditure	Expenditure (Rs.)
1	**2**	**3**
1	Land purchase for vegetable farming during reference period	
2	Purchase of boring/pumping set/sprinkler/drip irrigation/Dhiki pump	
3	Purchase of Agricultural equipment (Sprayer, Tractor, Storage goods, etc)	
4	Others (Construction of shades, repair of vehicles, land improvement	
Total		

Use for Rough Calculation:

3.3 Current Expenditure on Vegetable Farming

S. No.	Vegetable Crops		Division of Monthly Expenditure by Activities																									
			Land Rented/ Contracted-in		Land Preparation (Ploughing, Fencing)		No. of Temporary Workers		Purchase/ Production of Seeds/ Seedlings		Tunnel/ Shade/Climber support Construction		Irrigation (Fuel/ Electricity/ Water)		Organic/ Local Fertilizer		Chemical Fertilizer		Insecticides/ Pesticides, Vitamins		Purchase of Ordinary Tools		Minor Repair of Equipment		Packing		Transportation		Others	
	CPC		154		154				3461		4411		3462		5423		8711		5312		7211		6511		8540		8611		861	
	Name	Code	M	Exp.(Rs.)	M	Exp.(Rs.)	M	Exp.(Rs	M	Exp.(Rs.)	M	Exp.(Rs.)	M	Exp.(Rs.)	M	Exp.(Rs.)	M	Exp.(Rs.)	M	Exp.(Rs.)	M	Exp.(Rs.)	M	Exp.(Rs.)	M	Exp.(Rs.)	M	Exp.(Rs.)	M	Exp.(Rs.)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1																														
2																														
3																														
4																														
5																														
6																														
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18																														
19																														
20																														
21																														
22																														
23																														
24																														
25																														
Total Expenditure (Rs.)																														
																									Grand Total (Rs.)					

Part IV - Production and Income

4.1 Vegetable Production

S.No.	Parcel		Vegetable Crop		Area planted			Crop planted		Crop harvested		Production and Use Quantity (kg)		Scattered Vegetable Crop		Total Production (kg)	Farm Gate Price (Rs./kg)	Total Production (Rs.)
	Name	Code	Name	Code	B/R	K/A	D/P	Month	Code	Month	Code	Household Consumption	Sales	No. of Plants	Production (kg)			
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**
1																		
2																		
3																		
4																		
5																		
6																		
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21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
Total																		

1 Cabbage

111 Cauliflower
112 Cabbage
113 Broccoli
114 Brussels sprout
199 Others

2 Cucurbitaceae

211 Tomato
212 Brinjal
213 Bitter gourd
214 Lady's fingers
215 Cayenne pepper chilli
216 Scotch bonnet chilli
217 Bell pepper chilli
218 Cucumber
219 Pumpkin
220 Squash
221 Bottle gourd
222 Sponge gourd
223 Snake gourd
224 *Barela*
225 Christophine
226 Pointed gourd
227 Ash gourd
228 Watermelon
299 Others

3 Leguminosae

311 Pea pod
312 Hyacinth bean
313 Cowpea
314 Broad bean
315 Soybean pod
399 Others

4 Leafy Vegetable

411 Broad leaves Mustard
412 Cress
413 Spinach
414 Mustard leaf
415 Buckwheat leaf
416 Fenugreek
417 Garlic Green
418 Onion Green
419 Pumpkin leaf
420 Cristophine leaf
421 Arum leaf
499 Others

5 Roots

511 Radish
512 Turnip
513 Carrot
514 Onion dry
515 Garlic dry
599 Others

6 Tubers

611 Summer potato
612 Winter potato
613 Yam
614 Arum
615 Ol
616 Sweet potato
699 Others

7 Others

711 *Kurilo*
799 Others

Part IV - Production and Income (Continued…..)

4.2 Other Income from Vegetable Farming

S.No	Description of Income	Income (Rs.)
1	**2**	**3**
1	Income from sale of seeds/seedlings	
2	Income from sale of vegetable byproducts	
3	Other income	
Total		

4.3 Capital Income

S.No.	Description of Income	Income (Rs.)
1	**2**	**3**
1	Income from sale of land	
2	Income from sale of bullock/buffalo	
3	Other income	
Total		

Part V - Financial Description

5.1 Did you borrow loan for vegetable farming?

1 Yes
2 No --> 6.1

5.2 From whom did you take the loan?

1 Agriculture Development Bank
2 Co-operatives
3 Other Financial Institution
4 Farmers' Group
5 Women's Group
6 Relatives/Friends
7 Others (Specify) ……..

Part VI - Miscellaneous

6.1 Are there improved seeds easily available as per your needs?

1 Yes 2 No

6.2 Have you used insecticides/pesticides in the vegetable to protect from diseases?

1 Yes 2 No --> 6.4

6.3 What types of insecticides/pesticides did you use to protect the vegetables?

1 Organic/Local 2 Chemical

6.4 Where did you take the technical assistance for vegetable farming?

1 From JT/JTA 2 From Non-Govt. Agr. Technician
3 From others --> 6.6 4 Not needed --> 6.6

Mode of Transport	Code
On foot	… 1
Cycle/Rickshaw	… 2
Motorbike/Tempo	… 3
Car/Bus	… 4
Mixed (on foot/cart	… 5
Near the house	… 6

6.5 How do you rate the help that you received from Agricultural Technician?

1 Very good 2 Good
3 General 4 No help received

Ask only for Commercial Vegetable Farming Households

6.6 What is the market facility for selling of produced vegetables?

1 Good 2 General 3 Lack of Market

6.7 Where do you mainly sell your produced vegetables?

1 At home --> 6.9 2 Local market
3 Local collection centre 4 Wholesale market

6.8 How far is vegetable market from the house?

Mode of Transport ☐ Time Required Hour ☐ Minute ☐

6.9 Who is mainly involved from the family to sell the vegetables?

1 Male 2 Female

6.10 How many months can your household expenditure be maintained from the income of vegetable?

No. of Months ☐

Ask only for Households farming Vegetable for Household Consumption

6.11 Is the vegetables produced by you sufficient for your household consumption?

1 Yes 2 No

Annex 4

Benchmarking, Step Problem and Denton Method

Benchmarking

Benchmarking deals with the problem of combining a series of high-frequency data (e.g., quarterly data) with a series of less frequent data (e.g., annual data) for a certain variable into a consistent time series. The problem arises when the two series show inconsistent movements and the less frequent data are considered the more reliable of the two. The purpose of benchmarking is to combine the relative strengths of the low- and high-frequency data. Quarterly data sources often differ from those used in the corresponding annual estimates, and the typical result is that annual and quarterly data sources show inconsistent annual movements. In a few cases, the quarterly data may be superior and so may be used to replace the annual data. More typically, the annual data provide the most reliable information on the overall level and long-term movements in the series, while the quarterly source data provide the only available explicit information about the short-term movements in the series, so that there is a need to combine the information content of both the annual and quarterly sources.

Benchmarking has two main aspects, which in the QNA context are commonly looked upon as two different topics; these are (a) *quarterization*5 of annual data to construct time series of historical QNA estimates ("back series") and revise preliminary QNA estimates to align them to new annual data when they become available, and (b) *extrapolation* to update the series from movements in the indicator for the most current period ("forward series").

Step problem

The **step problem** arises because of discontinuities between years. If an indicator is not growing as fast as the annual data that constitute the benchmark, then the growth rate in the QNA estimates needs to be higher than in the indicator. With pro rata distribution, the entire increase in the quarterly growth rates is put into a single quarter, while other quarterly growth rates are left unchanged. The significance of the step problem depends on the size of variations in the annual Benchmark to Indicator (BI) ratio.

Denton method

The basic distribution technique shown in the BI Ratio Framework introduced a step in the series, and thus distorted quarterly patterns, by making all adjustments to quarterly growth rates to the first quarter. This step was caused by suddenly changing from one BI ratio to another. To avoid this distortion, the (implicit) quarterly BI ratios should change smoothly from one quarter to the next, while averaging to the annual BI ratios. Consequently, all quarterly growth rates will be adjusted by gradually changing, but relatively similar, amounts.

Source: International Monetary Fund, 2001, Quarterly National Accounts Manual