**l8lh6n lsQfgfkL sfo{ ;+rfng ljlw, (Digital Cadastral Satandard Operation Procedure, SOP), @)&@**

**!= Kf[i7e"ld**

hg;+Vofsf] a9\bf] rfksf] sf/0f hUUffdf ePsf] vl08s/0fsf ;fy} d"Nodf ;d]t ePsf] rsf]{ j[l4n] hUufsf] dxTj a9\g uPsf] sf/0fn] ubf{ k|of]u e} /x]sf] u|flkmsn k|ljlwsf] lsQf gfkL] eGbf cem a9L u'0f:t/o'Qm, k|efjsf/L, ljZj;gLo k|ljwLaf6 lsQf gfkLsf] sfo{ ug'{ kg]{ cfjZostf dxz'; ul/Psf] 5 . b'|t ultdf ePsf] ;"rgf / k|ljwLsf] ljsf;nfO{ ;d]t Wofgdf /fvL lsQf gfkL sfo{df e}/x]sf] k|ljwLnfO{ ?kfGt/0f u/L l8lh6n k|ljwLaf6 hUuf gfk hfFr u/fO{ cem a9L z'4, u'0f:t/o'Qm Pj+ ;"rgf d"ns e"ld nut tof/ ug{ cfjZos b]lvPsf]n] l8lh6n lsQfgfkL sfo{ ;+rfng ljlw, (Digital Cadastral Satandard Operation Procedure), @)&@ tof/ u/L nfu' ul/Psf] 5 .

**@= pb]Zo M**

of] sfo{ ;+rfng ljlw -SOP\_ sf] pb]Zo b]xfo adf]lhd /x]sf] 5 .

s\_ gljgtd k|ljlwsf] k|of]u ul/ gfk gS;f ug]{ k|ls|ofnfO{ :ki6 kfg{' .

v\_ l8lh6n k|ljlwaf6 gfk gS;f ubf{ ckgfpg' kg]{ ljlwsf] l;nl;n]jf/ JofVof u/L k|fljlws sfo{df ;/nLs/0f ug'{ .

u\_ l8lh6n k|ljlwaf6 gfk gS;f ubf{ ckgfpg] ljlwdf Ps?ktf sfod ug'{ .

**#= Instrument Configuration and SatandarizationM**

s\_ 6f]6n :6];g oGqnfO{ Calibration ubf{ ;a} Unit x?nfO{ metric system df x'g] ul/ calibration ug'{ kg]{ 5 . h:tf] tfks|dnfO{ Degree Centigrade / pressure nfO{ mmHg df /fVg] .

v\_ 6f]6n :6];g oGqnfO configure ubf{ Angular measurement sf] nflu Centicimal system df / Linear Measurment nfO{ Meter df ug'{ kg]{5 . Angular Measurment sf] Decimal k5f8L rf/ c+s;Dd / Linear Meaurment df Decimal k5f8L tLg c+s;Dd u0fgf x'g] u/L set ug'{ kg]{5 .

u\_ s'g} klg 6f]6n :6];g oGq lkmN8df k|of]u ug'{ cufa} clgjfo{ ?kdf Standarization ug{' kg]{5 . o;/L Standarization ubf{

* Collimation error r]s ug{ 6f]6n :6];gsf] left / right face sf] angular measurement sf] reading km/s ±50 ccg eGbf sd x'g'kg]{5 .-!%) ld=sf] line of sight df )=)!! ld=sf] q'6L x'g;Sg]\_
* Index error r]s ubf{ 5'6km/s ±% cg eGbf sd x'g' kg]{5 .
* Linear Measurment r]s ubf{ ;dtn hldgdf 100 ld6/ km/sdf /x]sf b'O{ ljGb'x?sf] EDM / standard tape af6 gfk]sf] b'/L ±% ld=ld= eGbf sd x'g' kg]{5 .

3\_ 6f]6n :6];g oGqsf] Standarization u/]sf] ljj/0f cg';'rL ! adf]lhdsf] 9fFrfdf ;DalGwt 6f]nLsf] 6f]nL k|d'vn] tof/ u/L÷u/fO{ sfof{no k|d'vaf6 k|dfl0ft u/fO /fVg' kg]{5 .

8=\_ sfdsf] l;nl;nfdf oGqnfO{ nfdf] b'/Ldf 9'jfgL ug'{ k/]sf] cj:yf jf cGo s'g} sf/0f a; oGqsf] standard lau|]sf] nfu]df ;DalGwt gfkL 6f]nLn] k'gM standarization ug'{ kg]{5 .

r\_ 6f]6n :6];g oGqsf] Standarization ubf{ k|s/0f u\_ adf]lhdsf] l;df leq gk/]sf oGqnfO{ dd{tsf nflu lsQfgfkL dxfzfvfdf k7fpg' kg]{5 . lsQfgfkL dxfzfvfn] To:tf oGqnfO{ ;dod} dd{t u/L k'gM ;DalGwt gfkL sfof{nonfO{ pknAw u/fpg' kg]{5 .

**$= lgoGq0f ljGb' :yfkgf M**

!\_ l8lh6n lsQfgfkLsf] sfo{ z'? ubf{ vuf]n tyf e"dfkg dxfzfvfn] pknAw u/fPsf] lgoGq0f ljGb'sf] cfwf/df ug' kg]{5 . vuf]n tyf e"dfkg dxfzfvfn] pknAw u/fPsf lgoGq0f ljGb'x? kof{Kt gePdf ;DalGwt gfkL 6f]nLn] yk ;xfos lgoGq0f ljGb' :yfkgf u/L gfk gS;f ug'{ kg]{5 .

@\_ vuf]n tyf e"dfkg dxfzfvfn] lsQfgfkL k|of]hgsf nflu cfjZos lgoGq0f ljGb' :yfkgf u/L g;s]sf] :yfgdf lsQfgfkL ug'{ k/]df gfkL sfof{non] b]xfo adf]lhd lgoGq0f ljGb'sf] :yfkgf ug]{5 .

s\_ GffkL sfof{non] gfk gS;f ug]{ If]qsf] nflu cfjZos kg]{ lgoGq0f ljGb' :yfkgf ug{ pknAw eP;Ddsf gS;f 8fou|fd / glhssf pRr bhf{sf lgoGq0f ljGb'nfO{ ;dfj]z u/L lgoGq0f ljGb'sf] ;+hfn tof/ ug{ diagram ;lxtsf] of]hgf sfof{no k|d'vn] tof/ ug]{ .

v\_ k|s/0f $ -@\_ -s\_ adf]lhdsf] of]hgf tof/ eO{;s] kl5 ;DalGwt gfkL 6f]nLn] lkmN8 lgl/If0f ;d]t u/L lgoGq0f ljGb' :yfkgf ug]{ :yfgx?sf] olsg ug'{ kg]{5 .

u\_ lgoGq0f ljGb' :yfkgf ug]{ :yfgsf] olsg eO{ ;s] kl5 ;f] :yfgdf cfjZos df]g'd]G6];g ug'{ kg]{5 . o;/L df]g'd]G6];g ubf{ major control network sf] nflu d-card ;lxt cg';'rL @ adf]lhdsf] / minor control nework sf] nflu cg';'rL # adf]lhdsf] monumentation ug'{ kg]{5 .

3\_ lgoGq0f ljGb'x?sf] lkmN8 observation ubf{ cg';'rL $ adf]lhdsf] 9fFrfdf ug'{ kg]{5 . o;/L lkmN8 observation ubf{ major control points :yfkgfsf] nflu tLg ;]6 / minor control points :yfkgfsf] nflu b"O{ ;]6 observation ug'{ kg]{5 .

8=\_ lgoGq0f ljGb' :yfkgf ubf{ closed link traverse ug'{ kg]{5 . o;/L closed link traverse ubf{ error of closer b]xfo adf]lhd eGbf a9L x'g' x'Fb}g .

* R.O. to R.O. misclosure ±25 ccg
* Set to set misclosure ±50 ccg
* Bearing misclosure ±25√n ccg, where n is no. of occupied stations.
* Scale error : 1:20000

Rf\_ lgoGq0f ljGb'sf] lkmN8 observation sfo{ ;dfKt eO{ ;s] kl5 cg';'rL % adf]lhdsf] 9fFrf cg';f/ co-ordinate ;+u0fgf ug'{ kg]{5 .

5\_ Major control point :yfkgf ubf{ k|lt d]l;g k|lt dlxgf vuf]n tyf e"dfkg dxfzfvfn] lgwf{/0f u/]sf] Norms cg';f/ ug{' kg]{5 . / o:tf] lgoGq0f ljGb' :yfkgf ubf{ tof/ ePsf ;Dk'0f{ sfuhftx? Vfuf]n tyf e"dfkg dxfzfvfdf a'emfpg' kg]{5 .

Hf\_ Minor control point :yfkgf ubf{ k|lt dlxgf k|lt d]l;g !@) lgoGq0f ljGb'x?sf] observation / computation ug'{ kg]{5 .

Efm\_ o;/L minor control point 3gf a:tL ePsf] :yfgdf @%)×@%) sf] lu|8df a9Ldf @) lgoGq0f ljGb' / v'nf 7fFpsf] xsdf a9L ^ lgoGq0f ljGb' dfq :yfkgf ug'{ kg]{5 . pNn]lvt ;+Vof eGbf a9L lgoGq0f ljGb'x? /fVg' kg]{ cj:yf cfPdf sfof{no k|d'vn] ;f] sf] sf/0f ;d]t v'nfO{ ;f] sf] Joxf]/f k|dfl0ft u/L /fVg' kg]{5 .

**%= lkmN8 Observation :**

!\_ lkmN8 observation ubf{ 6f]6n :6];gdf ;+sng x'g] 8f6f Easting, Northing, Elevation, Remarks sf] format df x'g] u/L set ug' kg]{5 .

@\_ lkmN8 ovservation ug{' eGbf klxn] gfk gS;f ug'{ kg]{ :yfgdf ePsf] lgoGq0f ljGb'x?sf] co-ordinate 6f]6n :6];gdf upload ug'{ kg]{5 .

#\_ cg';'rL ^ adf]hLdsf] code list 6f]6n :6];gdf up load ug'{ kg]{5 .

$\_ lkmN8 observation ubf{ cfkm\gf] 6f]nL cGtu{t ;+rfngdf /x]sf 6f]6n :6];gx?af6 observation ul/g] detail x?sf] point number gbf]x]l/g] u/L 6f]nL k|d'vn] pknAw u/fPsf] point number af6 z'? ug'{ kg]{5 .

%\_ sfd z'? ug'{ kg]{ lgoGq0f ljGb' olsg u/L ;f] lgoGq0f ljGb'df oGq ;]6 ck ug'{ kb{5 . cfkm' a;]sf] lgoGq0f ljGb'sf] co-ordinate / ;f] :yfgaf6 b]lvg] cGo lgoGq0f ljGb'sf] co-ordiantae sf] ;xfotfn] oGqnfO{ orientation ug'{ kb{5 .

^\_ o;/L orientation ul/;s] kl5 gfk gS;fsf] sfd z'? ug'{ k"j{ t];|f] lgoGq0f ljGb" jf cl3Nnf] :6];gaf6 cjnf]sg ul/Psf :yfoL k|s[tLsf sd;]sd ! ljGb'nfO{ cjnf]sg u/L tL ljGb"x?nfO{ r]shfFr u/L lbPsf] 5'6 km/s leq k/] dfq sfd z'? ug]{ ug'{ kb{5 . x/]s :6]zgaf6 sfd aGb ug'{ k"j{ R.O.jf cl3Nnf] :6]zgaf6 cjnf]sg ul/Psf :yfoL k|s[tLsf s'g} ! ljGb'sf] cjnf]sg u/L oGq aGb ug'{ kg]{5 .

&\_ k|s/0f %-^\_ adf]lhd r]s ubf{ b]xfo adf]lhd 5'6 km/s leq ePdfq sfd z'? ug'{ kb{5 .

∆E ≤ 1 cm

∆N ≤ 1 cm

\*\_ :s]r stf{n] o;/L 6f]6n :6];g set up u/]sf] lgoGq0f ljGb' tyf back orientation u/]sf] lgoGq0f ljGb' :ki6 b]lvg] ul/ gfk gS;f ug' kg]{ lsQfx?sf]] cg';'rL & adf]lhdsf] kmf/ddf k]lG;nn] :s]r tof/ ug{' kg]{5 / o;/L tof/ u/]sf] :s]rdf*, :s]r stf{ / cjnf]sg stf{sf] gfd / ;xL* clgjfo{ ?kdf pNn]v u/L 6f]nL k|d'vaf6 k|dfl0ft u/fO{ /fVg' kg]{5 .

(\_ 6f]6n :6];g ;+rfng stf{n] l8lh6n lsQf gfkL ug'{ kg]{ If]qdf :s]r stf{n] b]vfP adf]lhd x/]s lsQfsf] x/]s corner df prism /fVg nufO{ lsQf hUufsf] gfk hfFr ug'{ kb{5 .

!)\_ 6f]6n :6];g ;+rfng stf{n] record u/]sf] pointsf] gDa/ :s]r stf{n] :ki6 ;'Gg] u/L pRrf/0f ug'{ kg]{5 / :s]r stf{n] ;f] gDa/ oGq ;+rfng stf{n] :ki6 ;'Gg] u/L pRrf/0f ub}{ } :s]rdf ;DalGwt lsQfsf] :fDalGwt :yfgdf hgfpg' kg]{5 .

!!\_ s'g} ljGb"nfO{ cjnf]sg ug{ sl7gfO{ ePsf] cj:yfdf To:tf ljGb"x?nfO{ cjnf]sg e};s]sf :yfoL k|s[tLsf sDtLdf b'O{ :yfgaf6 pQm ljGb";Ddsf] b'/L jf sf]0f gfk]/ :s]rdf ;d]t ;f] s'/f :ki6;Fu b]vfpg' kg]{5 .

!@\_ cjnf]sg ubf{ Ps :6];gaf6 ;fwf/0ftof a9Ldf !%) ld6/ eGbf nfdf] b'/Lsf] cjnf]sg ug{' x'b}g .

!#\_ gfkhfFr ubf{ 3/, af6f], s'nf], vf]nfgfnf, kf]v/L, s'jf, Ogf/, wf/f, kvf{n, xfO{6]G;g nfO{g, tf/jf/ OToflb sf] ;d]t cjnf]sg u/L ;f]sf] 8f6f oGqdf /]s8{ ug'{ kg]{5 / ;f]sf] ljj/0f :s]rdf klg b]vfpg' kg]{5 .

!$\_ oGq ;+Rffng stf{n] k|To]s cjnf]sg kZrft cg';'rL–^ cg';f/sf] Code List cg';f/ 8f6fx?nfO{ Coding ub}{ hfg' kg]{5 .

!%\_ :s]rstf{n] :s]rdf /x]sf k|To]s lsQfnfO{ /ftf] dl;n] c:yfO{ lsQf gDa/ lbg' kg]{5 / ;f] lsQf;+u ;DalGwt cGo ljj/0f cg';'rL \* adf]lhdsf] 9fFrfdf ;+sng u/L Nofpg' kg]{5 .

!^\_ ;DalGwt hUufwgLn] gfk gS;fsf] ;dodf g]kfnL gfu/Lstfsf] k|df0f kq, hUufwgL btf{ k|df0f k'hf{ / rfn' cf=j=sf] lt/f] lt/]sf] /;Lbsf] k|ltlnkL ;lxt cGo k|df0f eP ;f] ;d]t ;+nUg u/L kmfon gfk gS;f ug]{ sd{rf/LnfO{ k]z ug'{ kg]{5 .

!&\_ o;/L k]z u/]sf] kmfonnfO{ l;nl;n]af/ gDa/ lbO{ ;f] gDa/ :s]rdf ;d]t ;{sn leq n]lv hgfpg' kg]{5 .

**^= 8f6f Downloading and conversion :**

!\_ lkmN8df ovserve ul/Psf] 8f6f gfkL ljefun] oGq;Fu} pknAw u/fPsf] software sf] ;xfotfn] download ug'{ kg]{5 .

@\_ o;/L 8fpgnf]8 ul/Psf Raw Data x?nfO{ ldlt ;d]t v'Ng] u/L 5'§} kmf]N8/ agfO{ gfkL sfof{non] clen]vsf] ?kdf /fVg' kg]{5 .

#\_ 8fpgnf]8 ul/Psf] Raw 8f6fx?nfO{ 8f6f k|zf]wgsf nflu .csv Format df Conversion ug'{ kg]{5 / ;f] ;d]t ldlt v'Ng] u/L 5'§} kmf]N8/ agfO{ gfkL sfof{non] clen]vsf] ?kdf /fVg' kg]{5 .

$\_ s'g} sf/0fa; observe u/]sf] 8f6fsf] l;l/on gDa/ bf]xf]/f] kg{ uPdf sfof{no k|d'vsf] :jLs[tL lnO{ .csv format df l;l;n]af/ gDa/ ;+;f]wg ug{ ;lsg]5 .

**&= 8f6f Joj:yfkg Pj+ gS;f agfpg] sfo{**

!\_ lkmN8df observe ul/Psf 8f6fx?af6 gS;f agfpgsf] nflu gfkL ljefun] tf]s]sf] GIS ;km\6j]o/ k|of]u ug'{ kg]{5 .

@\_ 8fpgnf]8 ul/Psf 8f6fx?sf] ;xfotfaf6 gS;f agfpg' k"j{ gfkL ljefun] tf]s]sf] application software tool ­Parcel Editor Application sf] k|of]u u/L cg';'rL ( adf]hLdsf] vfln 8f6fj]z -Blank Database) tof/ ug'{ kg]{5 . o;/L tof/ ePsf] blank database / cGo ljj/0fx?nfO{ cg';'rL !) adf]hLdsf] 9fFrfdf sDKo'6/df Joj:yfkg ul/ /fVg' kg]{5 .

#\_ 8fpGfnf]8 ul/Psf 8f6fx? jf Convert ul/Psf 8f6fnfO{ ;ˆ6j]o/sf] dfWodåf/f Import u/L ;f]xL point 8f6fx?sf] ;xfotfaf6 cg';'rL !! adf]lhdsf ;a} Feature Classes/Layers df cfjZos Feature x? lkmN8 :s]r cg';f/ l8lh6fOh ub}{ hfg' kg]{5 .

$\_ s'g} sf/0fa; 6f]6n :6];gaf6 s'g} :yfgsf] co-ordinate observe ug{ sl7gfO{ eO{ cGo s'g} t/Lsfaf6 b'/L jf sf]0f measure u/L NofOPsf 8f6fx?nfO{ ;km\6j]o/df /x]sf] COGO (Coordinate Geometry) cGt/utsf] pko'Qm ljwL cg';f/ pQm b'/L jf sf]0fsf] cfwf/df To;tf] :yfgsf] ljGb" ;d]t sfod ug'{ kg]{5 . o;/L :yfkgf ul/Psf tyf kl5 cfjZostf k/L :yfkgf ug'{ kg]{ yk ljGb"x?nfO{ gDj/ lbFbf 8f6fj]zsf] clGtd gDj/af6 l;nl;n]af/ lbg' kg]{5 .

%\_ lkmN8af6 NofPsf 8f6fx?sf] cfwf/df lsQf hf]8\bf klxnf] lsQf hf]8\bf creat new polygon eGg] task /fvL ug'{ kg]{5 eg] To;kl5sf lsQfx? Auto complete polygon task /fvL ug'{ kg]{5 . :s]rsf] cfwf/df creat new polygon task /fvL s'g} Ans tof/ u/L cut polygon task sf] cfwf/df klg lsQf l8lh6fOh ug{ ;lsg]5 .

^\_ o;/L l8lh6fOh ul/Psf Feature x?df cfjZos Attribute Data klg ;+u ;+u} k|lji6 ub}{ hfg' kg]{5 . hUufwgL tyf df]xLsf] ljj/0fx? klg lkmN8df ;+sng ul/Psf] kmfon cg';f/ ;DalG3t lsQfsf] attribute table sf] ;DalGwt dxndf k|lji6 ub}{ hfg' kg]{5 . s'g} sf/0fj; cjnf]sg u/]sf] point 8f6fj]zdf sfd gnfUg] eO k|of]u ug'{ gkg]{ cj:yf ePdf ;f] sf] clen]v sfof{no k|d'v ;+u k|df0fLt u/fO{ cg';'rL !) adf]lhd ;'/lIft /fVg' kg]{5 .

&\_ hUufwgLx?sf] hUufwgL ;+s]t gDj/ sfod ubf{ cg';'rL !@ adf]lhd ug'{ kg]{5 .

\*\_ lsQf digitization sf] sfo{ ;dfKt eP kl5 Parcel Editor Application s} ;xfotfn] cg';'rL !# df pNn]v eP adf]lhdsf] topological rule cg';f/sf] topology error check u/L correction ug'{ kg]{5 .

(\_ gS;fdf k|of]u ul/g] ;+s]t lrGxx? cg';'rL !$ cg';f/ /fVg' kg]{5 .

!)\_ 8f6f df]8]n cg';f/sf] 8f6fj]z tyf gS;f agfpg] sfo{ :s]rsf] cfwf/df k"0f{ ePkl5 tof/ ePsf] gS;fdf lsQf gDj/ lbg] .

**\*= Database Completeness Check ug]{ M**

!\_ 8f6fj]; tof/ eO;s]kl5 8f6fa];df cfjZos ;Dk"0f{ ljj/0fx? Kf"0f{ ?kdf pNn]v 5 5}g elg gfkL 6f]nLsf] k|d"vn] r]s hfFr u/L cg';'rL !% adf]hLdsf] check list tof/ u/L gfkL clws[t jf sfof{no k|d"v ;dIf k]z ug'{ kg]{5 .

@\_ gfkL clws[t jf gfkL sfof{nosf] k|d"vn] chec list cg';f/sf] ljj/0f 7Ls 5 5}g r]s u/L ck'0f{ /x]sf]df k'0f{ ug{ / uNtL q'6L /x]sf] kfOPdf ;f] sf] ;'wf/sf] nfuL gfkL 6f]nL k|d"vnfO{ cfb]z lbg' kg]{5 .

#\_ 8f6fa]z k"0f{ gePsf] jf q'6L /x]sf] egL ;Rrfpg] cfb]z k|fKt ePdf ;DalGwt gfkL 6f]nL k|d'vn] cfkm\gf] 6f]nLsf] sd{rf/Lx?nfO{ kl/rfng u/L 8f6fa]z k"0f{ / q'6L /lxt jgfpg' kg]{5 .

$\_ q'6L ;RofO{ 8f6fj]z k"0f{ eP kl5 cg';'rL !% adf]lhdsf] r]s lni6 gfkL clws[t jf gfkL sfof{nosf] k|d'vn] k|dfl0ft ul//fVg' kg]{5 .

%\_ 8f6fj]z ;'/lIft /fVg]k|aGw ldnfpg] lhDd]jf/L gfkL sfof{nosf] k|d"vsf] x'g]5 .

**(= ;ft lbg] ;"rgf k|sfzg M**

!\_ ;ft lbg] ;'rgf k|sfzg ug'{ cuffj} 8f6fj];sf] cfwf/df tof/ ePsf] gS;f lk|G6 u/L ;DalGwt 6f]nL k|d'vn] lkmN8 e]l/lkms];g ug'{ u/fpg' kg]{5 .

@\_ gS;f tyf 8f6fj]z k"0f{ ?kdf tof/ ePkl5 hUuf gfk hfFr P]g tyf lgodfjnLdf ;dfj]z ul/Psf cg';"rL adf]lhds} 9fFrfdf ;f]xL 8f6fj]zaf6} Parcel Editor Application Software sf] ;xfotfaf6 k|sflzt ug'{ kg]{ ;ft lbg] ;"rgf tyf lkmN8a's lk|G6 ug'{ kg]{5 .

#\_ o;/L lk|G6 ug]{ ;ft lbg] ;"rgf rf/ k|lt lk|G6 ug'{ kg]{5 . oL rf/ k|lt ;"rgf dWo] ! k|lt ;DalGwt j8fsf] w]/} JolQmsf] cfjthfjt ug]{ :yfgdf 6fF; ug'{ kg]{5, ! k|lt uf=lj=;= jf gu/kflnsfsf] j8fdf lnlvt ?kdf k7fpg' kg]{5, ! k|lt gfkL sfof{nodf k7fpg' kg]{5 / ! k|lt ;DalGwt gfkL 6f]nLdf /fVg' kg]{5 .

$\_ gfkL 6f]nLn] ;ft lbg] ;"rgf k|sfzg x'g] cj:yfsf] gSzfsf] b"O{ k|lt drafting film df lk|G6 u/L k|dfl0ft u/L /fVg' kg]{5 .

**!)= hUuf btf{ ;DaGwdf**

!\_ HfUuf btf{ sfo{ hUuf gfk hfFr P]g, lgodfjnL / :jLs[t lgb]{lzsf adf]lhdsf] k|ls|of cg';f/ ug'{ kg]{5 .

@\_ hUuf btf{ ubf{, ;fljs gS;f le8fpbf ;fljs gS;fsf] l8lh6n 8f6f gfk gS;f u/L tof/ ePsf] gS;fsf] k5f8L overlay u/L ;DalGwt lsQf;Fu ;DalGwt lsQfsf] lsQf gDa/ / rf}xlb t'ngf u/L ug' kg]{5 / overlay ubf{ lsQfsf] ;Dk"0f{ l;dfgf x'jx' ldNg' k5{ eGg] 5}g .

#\_ lkmN8a'sdf hUufjfnf jf lghsf] k|ltlglwn] ;lx5fk ul/;s] kl5 8f6fj]zdf Parcel Editor Application sf] ;xfotfn] ;DalGwt lsQf vf]hL register ug'{ kg]{5 .

**!!= hUUffwlg btf{ >]itf / HfUufwlg btf{ k|df0f k'hf{ tof/L M**

!\_ HfUuf btf{sf] sfo{ ;DkGg ePkl5 Parcel Editor Applicationsf] ;xfotfn] hUufwlg btf{ >]itf / hUufwlg btf{ k|df0f k'hf{ tTsfn tof/ u/L hUufwlgsf] kmf]6f] ;lxt ;lx5fk / cf}7f 5fk nufO{ /fVg' kg]{5 .

**!@= GfS;f ;+;f]wg tyf cWofjlws**

!\_ GfS;f ;+;f]wg tyf cWjofjlws ubf{ Parcel Editor Application df ePsf] k|fjwfg adf]lhd Database df History /xg] u/L dfq ug'{ kg]{5 .

@\_ Parcel Editor Application df log in gu/L GfS;f ;+;f]wg tyf cWjofjlws ug{ kfOg] 5}g .

**!#= 8f6f Archieve / ;'/Iff**

!\_ tof/ ePsf] 8f6f sfof{no k|d'vsf] lgu/fgLdf slDtdf dlxgfsf] Ps k6s Jofsk /fVg' kg]{5 / cfly{s aif{sf] ;dflKtdf tof/ ePsf] clGtd 8f6fsf] Ps k|lt lsQfgfkL dxfzfvfdf k7fpg' kg]{5 .

@\_ sfof{no k|d'vn] clgjfo{ ?kdf sd{rf/Lx?nfO{ userID / password pknAw u/fpg' kg]{5 / sd{rf/Lx?n] 8f6fj]z k|of]usf] nflu lbOPsf] cg'dlt cg'?k g} cf cfkm\gf] sfo{ ug'{ kg]{5 .

**!$= hUufwgL btf{ k|df0f k"hf{ ljt/0f tyf >]:tf 8f6f x:tfGt/0f**

s\_ hUufwgL btf{ >]:tf tyf hUufwgL btf{ k|df0f k"hf{ tof/ eP kZrft lgodfg';f/ sf] k|s[of k'¥ofO{ hUufwgL btf{ k|df0f k"hf{ ljt/0f ug{' kg{]5 .

v\_ hUufwgL btf{ k|df0f k"hf{ ljt/0f kZrft lgodfg';f/ gSzf;Fu ;DjlGwt sfuhft / l8lh6n 8f6fj]z gfkL sfof{nodf {{ / >]:tf ;DjGwL sfuhft dfnkf]t sfof{nodf a'emfpg' kg{]5 .

**!%= ljljw M**

!\_ 6f]6n :6];g oGq / tf]lsPsf] ;km\6j]o/ ;+rfng ubf{ ;DalGwt user manual cg';f/ ug'{ kg]{5 .

@\_ gfkL ljefun] cfjZostf cg';f/ l8lh6n Sof8:6«n ;+u ;DalGwt cGo ljifodf kl/kq ug{ ;Sg]5 .

cg';'rL !

gfkL sfof{no =================

6f]6n :6];g g++= M

**Collimation Error :**

Left face reading : ………………………….

Right face reading : …………………………..

Difference : …………………………….. cg

**Index Error** :

Left face reading :

Right face reading :

Difference [(Left face + Right face)-400] : ……………………….. cg

**Linear Check :**

EDM distance for 100 m length in ground : ………… m

Tape distance for 100 m length in ground : ………… m

Difference : ................................ m

Total station check ug]{ M

Gffd M

Kfb M

Rf]s hfFr ug]{ M

Gffd M

Kfb M

Kf|dfl0ft ug]{ M

Gffd M

Kfb M

अनुसुची न. **२**

1. Major control point sf] monumentation vuf]nn] tof/ u/]sf] Triangulation Instruction Book (Blue Book) df pNn]v ePsf] ;fwf/0f rf}yf] bhf{sf] lgoGq0f ljGb'sf nflu tf]lsPsf] specification cg';f/ x'g]5 .
2. Major control point sf] l8 sf8{ vuf]nn] tof/ u/]sf] Triangulation Instruction Book (Blue Book) df pNn]v ePsf] specification cg';f/ x'g]5 .
3. Major control point sf] gDa/ gfkL sfof{non] vuf]n tyf e'dfkg dxfzfvf;+u dfu u/L ;f]xL adf]lhd lbg' kg]{5 .
4. Major control point :yfkgf ubf{ lkmN8a's, sDKo'6];g kmf/d / z'¢tf Triangulation Instruction Book (Blue Book) adf]lhd x'g' kg]{5 .

cg';'rL #

45 cm

;x/L If]qsf nfuL hL=cfO{= kfOk

2.54 cm

45 cm

Uf|fdL0f If]qsf nfuL sf7sf] lsnf

Mior Control point sf] gDa/ sfof{no k|d'vn] pknAw u/fP adf]lhd /fVg' kg]{5 .

cg';'rL $

Traverse Observation Form

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| OVSERVATION BOOK- HORIZENTAL ANGLE AND DISTANCE | | | | | | | | | | | | | | | | | | | | | | | | |
| GRID SHEET: | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | PAGE: | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | |
| Number And Name of Station --------------- | | | | | | | | | Station:…...…Height of Instrument (Hi)……. | | | | | | | | Total Station:………………………..…..No:………………………. | | | | | | | |
| Traget:……………………………………………………….. | | | | | | | | Standing on:……………..……………………………………………. | | | | | | | |
| Observer:……………………………………………………………… | | | | | | | | | Date:………………...........……………………………… | | | | | | | | Weaeher:……………………..……………………………………….. | | | | | | | |
| OBJECT | | Face |  | | | | |  | | | | |  | | | | | Mean Of ………....Sets | | | Horizental Distance | Different of Height | Signal Height | Remarks |
| …….Set | | | Mean | | …….Set | | | Mean | | …….Set | | | Mean | |
| Reduction | | Reduction | | Reduction | |
| No. | Name | g | cg | ccg | cg | ccg | g | cg | ccg | cg | ccg | g | cg | ccg | cg | ccg | g | cg | ccg | M. | M. | M. |
| [1] | | [2] | [3] | | | [4] | | [5] | | | [6] | | [7] | | | [8] | | [9] | | | [10] | [11] | [12] | [13] |
|  |  | L |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | L |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | L |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | L |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | L |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| TRIG. FORM 1.11 A | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **District Survey Office ……….** | | | | | | | | | | | | | |
| **……………………………………..** | | | | | | | | | | | | | |
| **Traverse Computation Form** | | | | | | | | | | | | | |
| Stn No. | Obs. Angle | Bearing (β) | Correction | Corrected  Bearing (β) | **Distance (D)** | ∆N=D\*sinβ | Correction | Corrected  ∆N | ∆E=D\*cosβ | Correction | Corrected  ∆E | **Co-ordinate** | |
| **Northing** | **Easting** |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| …. |  |  |  |  |  |  |  |  |  |  |  |  |  |

Where,

Ex – Algebric Sum of error in Easting (Σ∆E )

Ey – Algebric Sum of error in Northing (Σ∆N )

P – Sum of Traverse legs length

cg';'rL ^

|  |  |  |
| --- | --- | --- |
| **Field Code List for Digital Cadastre** | | |
|  |  |  |
| **SN** | **Code** | **Discription** |
| 1 | BAMB | BAMBOO |
| 2 | BAN | BANANA |
| 3 | BM | BENCH MARK |
| 4 | BRDG | BRIDGE CORNER |
| 5 | CB | CABINET (TELEPHONE ) |
| 6 | CL | CENTER LINE |
| 7 | CLVT | CULVERT CORNER |
| 8 | CNL | CANAL EDGE |
| 9 | DRN | DRAINAGE |
| 10 | EP | ELECTRIC POLE |
| 11 | EPL | ELECTRIC POLE WITH LIGHT |
| 12 | FNC | FENCE |
| 13 | GATE | GATE |
| 14 | GRDN | GARDEN |
| 15 | GV | WATER GATE VULBE |
| 16 | HC | HOUSE CORNER |
| 17 | HTL | HIGHTENTION LINE |
| 18 | MH | MANHOLE |
| 19 | POND | POND |
| 20 | PRCL | PARCEL CORNER |
| 21 | RB | RIVER BANK |
| 22 | RD | ROAD EDGE (ALL TYPES) |
| 23 | STN | INSTRUMENT STATION |
| 24 | STN | STATION |
| 25 | STUPA | STUPA |
| 26 | TAP | WATER TAP |
| 27 | TEMP | TEMPLE |
| 28 | TF | TRANSFORMER |
| 29 | TP | TELEPHONE POLE |
| 30 | TREE | TREE |
| 31 | TRK | TRACK |
| 32 | TWR | TOWER |
| 33 | WALL | WALL CORNER |
| 34 | WELL | WELL |
| 35 | WL | WATER LEVEL (RIVER, POND, LAKE etc.) |
| 36 | WT | WATER TANK / WATER TOWER |

cg';'rL &

g]kfn ;/sf/

e"ld ;'wf/ tyf Joj:yf dGqfno

**gfkL ljefu**

**gfkL sfof{no, =============**

**lkmN8 :s]r**

lhNnf M ====================== uf=lj=;=÷g=kf= M ====================== j8f g+= M ======================

:yfg M– ====================== ldlt M– ===========÷=====÷====

**=================== =================== ===================**

:s]r agfpg]sf] gfk gS;f ug]{sf] k|dfl0ft ug]{sf]

gfd M gfd M gfd M

cg';'rL \*

g]kfn ;/sf/

e"ld ;'wf/ tyf Joj:yf dGqfno

**gfkL ljefu**

**gfkL sfof{no, =============**

**lsQf;+u ;DalGwt ljj/0fx?sf] ;+sng kmf/d**

lhNnf M ====================== uf=lj=;=÷g=kf= M ====================== j8f g+= M ======================

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| c:yfO{ ls=g+= | Kfmfon g++= | hUufwgLsf] gfd | Hf=w=sf]  lhNnf | Hf=w=sf]  uf=lj=;=÷g=kf= | Hf=w=sf]  j8f g+= | hUufwgLsf] gf=k|=g+= | hUufwgLsf] afa' ÷ kltsf] gfd | Affh] ÷ ;;'/fsf] gfd | Dff]xLsf] tLg k':t] ljj/0f | lj/x | Xslx:;f | s}lkmot |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |

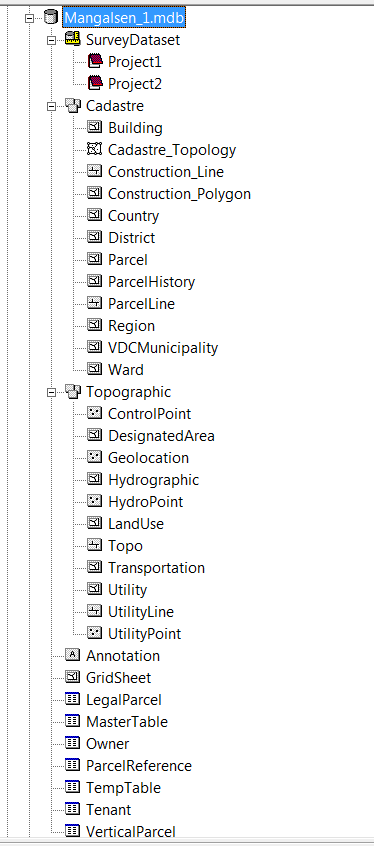
**=================== ===================**

ljj/0f ;+sng ug]{sf] 6f]nL k|d'vsf]

gfd M gfd M

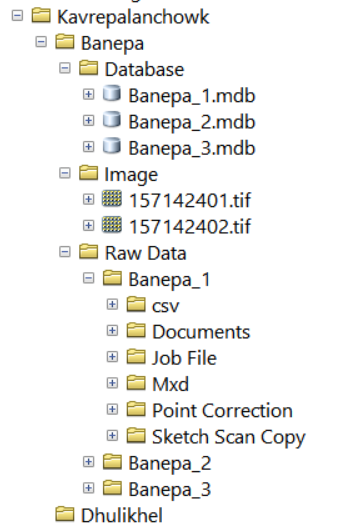
cg';'rL (

Blank database tree model



cg';'rL !)

Database Joj:yfkg 9fFrf



cg';'rL !!

Feature classes and Tables

1. Building (3/)
2. Construction line (tf/ af/)
3. Construction Polygon (3/sf] sDkfpG8 jfn)
4. District (lhNnf l;dfgf)
5. Parcel (lsQf l;dfgf )
6. V.D.C./Municipality (uf=lj=;=÷g=kf= l;dfgf)
7. Ward (j8f l;dfgf)
8. Control Point (lgoGq0f ljGb' :yfg)
9. Annotation (:yfgsf] gfd)
10. Master Table (gfkL sfof{nosf] gfd)
11. Owner (hUufwgLsf] ;Dk'0f{ ljj/0f)
12. Tenant (df]xLsf] ;Dk'0f{ ljj/0f\_

cg';'rL !@

hUufwlg ;+s]t gDa/ lbg] t/Lsf

lhNnf sf]8 -@ c+s\_ ± uf=lj=;= sf]8 -$ c+s\_ ± j8f g+= -@ c+s\_ ± hGd ldlt -\* c+s\_ ± नागरीकता gDa/

;fn dfq v'n]sf] hGdldltdf hf/L u/]sf] ldltsf] dlxgf / ut]nfO{ sfod ug'{ kg]{5 .

pbfx/0f M

sfe|knf~rf]s lhNnf w'lnv]n gu/kflnsf j8f g++= )$ 7]ufgf eO ldlt @)$%.)(.!$ df hGd]sf] JolQmsf] hUufwlg ;+s]t gDa/ lgDg adf]lhd x'g]5 .

lhNnf sf]8 -@ c+s\_±uf=lj=;= sf]8 -$ c+s\_±j8f g+= -@ c+s\_±hGd ldlt -\* c+s\_± नागरीकता gDa/

@$ ± ))@$ ± )$ ± @)$%)(!$ ± !%)@

Ö @$))@$)$@)$%)(!$!%)@

cg';'rL !#

Topological Rule

1. Parcel must not have gaps
2. Parcel must not overlap
3. Builing must be completely within the parcel
4. Construction polygon must within the parcel.

cg';'rL !$

;+s]t lrGx 9fFrf



cg';'rL !%

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Database completeness Checklist | | | | |
| **uf=lj=;=÷gu/kflnsf M** | | | **j8f g+= M** | |
| l;=g+= | Feature Class and Table | Attribute Fields | Status | |
| Yes | No |
| 1 | Building | Building Construction Type |  |  |
| 2 | Construction\_Line | Line Construction Type |  |  |
| 3 | Construction\_Polygon | Polygon\_ConstructionType |  |  |
| 4 | District | जिल्ला\_कोड |  |  |
|  |  | जिल्लाको\_नाम |  |  |
|  |  | अन्चल\_कोड |  |  |
| 5 | Parcel | अञ्चल |  |  |
|  |  | जिल्ला\_कोड |  |  |
|  |  | जिल्ला |  |  |
|  |  | गाविस\_कोड |  |  |
|  |  | गाविस |  |  |
|  |  | वार्ड |  |  |
|  |  | नक्सा\_सिट\_नम्बर |  |  |
|  |  | जमिनको\_कित्ता\_नम्बर |  |  |
|  |  | ParcelNoEng |  |  |
|  |  | जग्गाधनी\_संकेत\_नम्बर |  |  |
|  |  | मोहीको\_संकेत\_नम्बर |  |  |
|  |  | किसिम |  |  |
|  |  | विरह |  |  |
|  |  | जग्गाको\_क्षेत्रीय\_किसिम |  |  |
|  |  | किसिम\_मान |  |  |
|  |  | प्रमाण\_संकेत |  |  |
|  |  | कैफियत |  |  |
|  |  | पूर्व\_कित्ता\_नम्बर |  |  |
|  |  | पश्चिम\_कित्ता\_नम्बर |  |  |
|  |  | उत्तर\_कित्ता\_नम्बर |  |  |
|  |  | दक्षिण\_कित्ता\_नम्बर |  |  |
|  |  | दर्ता\_गर्नेको\_नाम |  |  |
|  |  | दर्ता\_भएको\_मिति |  |  |
|  |  | नापी\_टोली\_नं |  |  |
|  |  | नापी\_कार्यालय |  |  |
| 6 | VDCMunicipality | गाविस॒नपा॒कोड |  |  |
|  |  | गाविसको॒नाम |  |  |
|  |  | VCC (VDC Code) |  |  |
|  |  | जिल्लाकोड |  |  |
| 7 | Ward | वार्ड\_नं |  |  |
|  |  | गा\_वि\_स\_कोड |  |  |
| 8 | Control Point | Name |  |  |
|  |  | Xvalue |  |  |
|  |  | Yvalue |  |  |
|  |  | Zvalue |  |  |
|  |  | Address |  |  |
|  |  | Code |  |  |
|  |  | FCODE |  |  |
| 9 | Annotation | Textsrting |  |  |
| 10 | Master Table | Office |  |  |
| 11 | Owner | जग्गाधनी संकेत नं |  |  |
|  |  | जग्गाधनीको नाम |  |  |
|  |  | ज\_ध\_को\_ना\_प्र\_नं |  |  |
|  |  | ज ध को ना प्र मिति |  |  |
|  |  | ज ध को ना प्र जिल्ला |  |  |
|  |  | ज ध को गा वि स |  |  |
|  |  | ज ध को वडा नं |  |  |
|  |  | ज ध को जिल्ला |  |  |
|  |  | ज ध को अञ्चल |  |  |
|  |  | ज ध को बाबुको नाम |  |  |
|  |  | ज ध को बाजेको नाम |  |  |
|  |  | हकहिस्सा |  |  |
|  |  | PhoneNo |  |  |
| 12 | Tenant | Tenant\_id |  |  |
|  |  | मोहीको\_नाम |  |  |
|  |  | मोहीको\_ना\_प्र\_नं |  |  |
|  |  | मोहीको\_ना\_प्र\_मिति |  |  |
|  |  | मोहीको\_ना\_प्र\_जिल्ला |  |  |
|  |  | मोहीको\_गा\_वि\_स |  |  |
|  |  | मोहीको\_वडा\_नं |  |  |
|  |  | मोहीको\_जिल्ला |  |  |
|  |  | मोहीको\_बाबुको\_नाम |  |  |
|  |  | मोहीको\_बाजेको\_नाम |  |  |
|  |  | T\_TenantPhoneNo |  |  |