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Preparation of Geo-referenced Forest Land Map  
of the Road Alignment from Amarpur to Chirimiri Road  
(12.4km) of Public Works Department (B/R), Korea  
Division, in Chhattisgarh through DGPS Survey

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*Prepared for:*



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#### APPENDIX

Appendix – 1	Certification of Empanelment by state Govt. of Odisha. Experience in DGPS Survey for Forest Clearances
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## 1. OBJECTIVE OF THE DGPS SURVEY:

Public Works Department (PWD) of Chhattishgarh is proposed to rehabilitate/widen the road from Amarpur to Chirimiri (12.40 km) the road is passing through Bundiyabahara RF, Salka PF and revenue forest in Tegni. These forest lands need to be diverted for use in non-forest purpose.

***As per directives of Ministry of Environment & Forests dated 8th July 2011; all applications seeking diversion of forest land for non-forest purpose under Forest Conservation Act, 1980 must be accompanied with Geo-referenced shape file (both soft copy and hard copy maps) of the forest land proposed for diversion prepared using Differential GPS (DGPS).***

To meet these requirements, WBPDC entrusted this DGPS survey work to an organization M/s SPARC Pvt. Ltd., Bhubaneswar, a Government recognized reputed firm specializing in such assignments. Credential of SPARC is enclosed at Appendix-1.

## 2. SCOPE:

The envisaged scopes of the assignments are described below

1. Computation of Forest Land area through digitization & comparison with area indicated in forest land schedule.
2. Control survey and geo-referencing of project area using DGPS.
  - a) Establishment of Base Station/ Primary Control Points (PCPs).
  - b) Planning, identification and DGPS observation at Secondary Control Point (SCPs).
  - c) Geo-referencing of the land plan based on DGPS Surveyed SCPs.
  - d) Identification of Forest Land Patches in the geo-referencing land plan.
3. DGPS Observation of entry/exit/bend points in RF/PF stretches.
4. Processing of DGPS observation for final co-ordinates and generation of geo-referenced shape files of the forest land patches.
5. Printing of Hard copy maps and report.

### 3. DELIVERABLES:

The deliverables envisaged for the assignment are described below

- I. Post processed DGPS observations data as well as raw data in RINEX format.
- II. Base line & network adjustment report for the primary and secondary networks.
- III. Geo-referenced scanned cadastral maps & forest block maps based on DGPS observation.
- IV. Geo-reference shape file (Soft copy) of alignment
- V. Area statement as per DGPS Survey
- VI. Report with map

### 4. APPROACH AND METHODOLOGY

#### 4.1 DESK STUDY

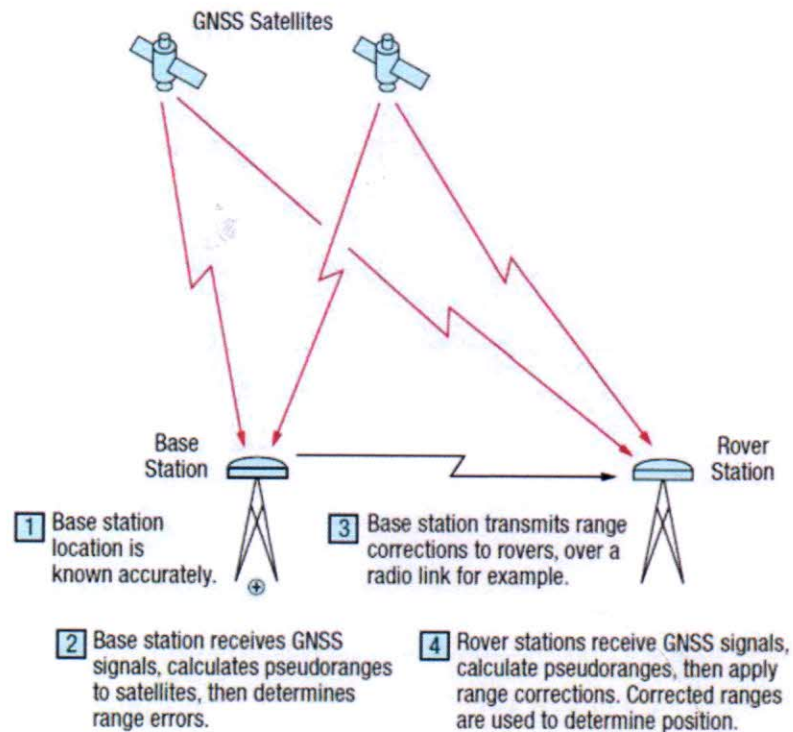
The following maps provided by the user were critically studied.

- SOI Topo sheet (64-1/8) showing the mine lease boundary
- Revenue (cadastral) map showing road alignment and highlighting forest lands in Tegni village.

#### 4.2 PRINCIPLE OF DGPS SURVEY

DGPS Survey is carried out by a pair of devices, one is called base and other is called as rover in order to eliminate the un-avoidable error which may occur during survey as transmission delays in the ionosphere, multipath signal due to foreign object which may induce in the DGPS observation.

Base is stationary and fixed in an ideal location (that has a clear line of sight to the sky in all directions away from vertical obstructions such as buildings, deep cuttings, site vehicles, towers, or tree canopy) which is act as the Primary Control Point (PCP) while the rover collects the reading at target locations.



*Fig-1: Concept of the DGPS survey*

As the rover has no choice of sites and has to take reading at the pre-fixed target location, it may induce error as discussed earlier. Therefore, the data received by the rover has to be processed with the observation received by the base rover in real time mode (through radio link) or during post process in a later stage to eliminate the error and get the final reading (coordinate value).

#### 4.3 ESTABLISHMENT OF BASE STATION/PRIMARY CONTROL POINT (PCP)

A Base Station/Primary Control Point was established (near the mining pillar of SCL at Gelapani Beat house) for apply correction to the data collected by Rover. As per Survey of India Guideline, the Base Stations were fixed through continuous observation of 12 hour on 12<sup>th</sup> March 2015. The observed data processed with reference to guideline. The IGS processed report is enclosed at Annexure-1.

The Processed co-ordinate of the PCP obtained after applying IGS corrections is as follows.

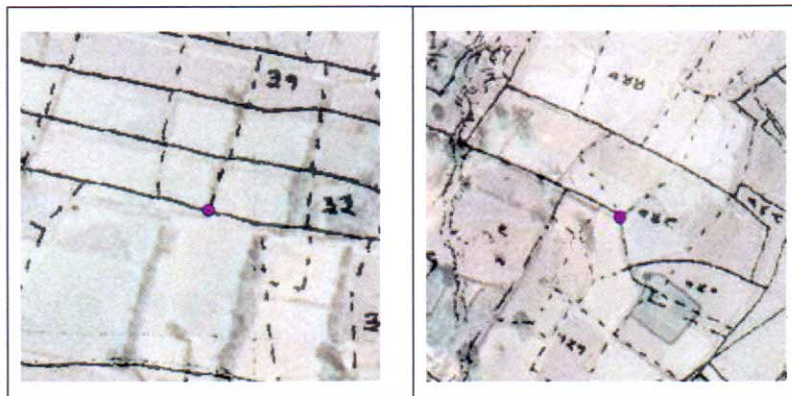
Latitude	N23 °13'06.93220"
Longitude	E82°23'47.44721"
Height	626.118m

The base station data is used for future RTK survey of Reserve & Protected forest, and post processing the SCP points of revenue sheet collected in static mode.

*As per the National Map policy (enclosed at Annexure-2), all the maps are prepared with UTM Projection using the Datum WGS-1984 to seamless integration with new Open Series Maps (OSM) Topo Sheets published by Survey of India.*

#### 4.4 SECONDARY CONTROL POINT (SCP) OBSERVATION

6 secondary point per revenue sheets are required to geo-reference the maps based on the DGSP survey. The Secondary Control Points (SCPs) in the area of interest were planned at convenient location. SCPs are planned well distributing in the revenue maps covering Tri-junction, Bi-junction, undistributed field bond.



*Fig-2: Sample of SCP location*

DGPS observation were taken SCPs location (for 15 minutes each) using rover. The data observed by base and rover were post processed using advanced Trimble Business Centre software for obtaining the final SCP Co-ordinates. The SCPs with fixed solutions only were used for Geo-referencing of the revenue maps. The specification of the rover devices used for SCP survey is enclosed at Annexure-3.

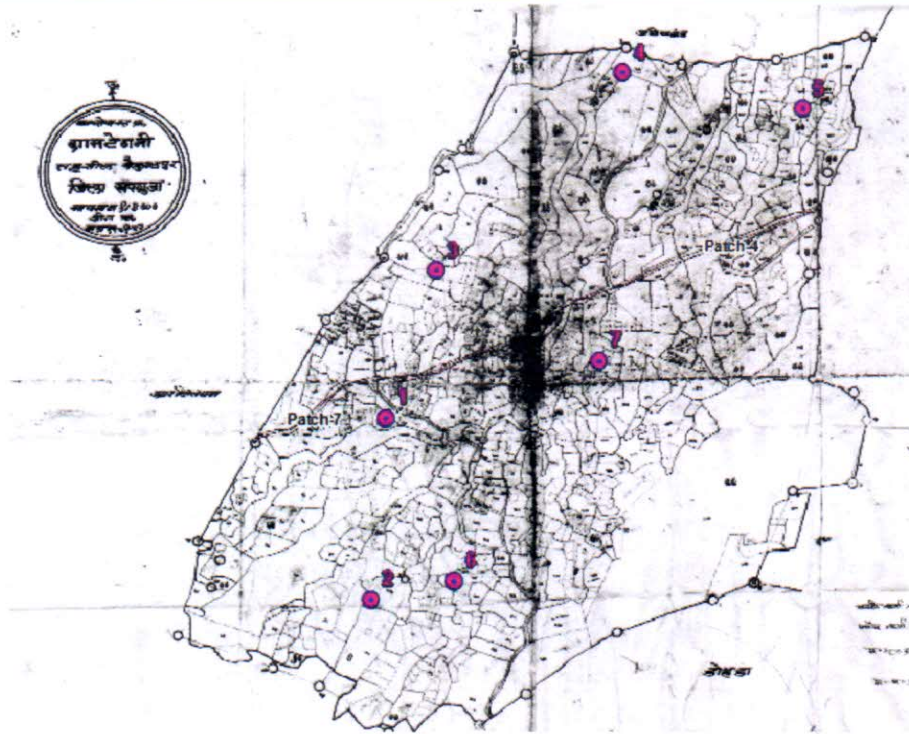


Fig-3: Location of SCP on Cadastral Image

#### 4.5 ROAD ALIGNMENT SURVEY IN RESERVE AND PROTECTED FOREST

Entry, exit and bend of RF & PF boundary were precisely surveyed using Real Time Kinematic(RTK) mode using Trimble SPS-855 Devices. The specification of the devices enclosed at Annexure-4.

#### 5. RESULTS

The observed DGPS co-ordinates of the SCP points used for Geo-referencing of revenue map, forest pillar co-ordinates of Protected Forest, Village Forest & Protected Forest and Forest Area are given in Table-1 to Table-4 respectively.

Table-1: Coordinates of Secondary Control Points (SCPs)

Pillar No	UTM Co-ordinates		Geo-graphical Co-ordinates	
	Easting	Northing	Longitude	Latitude
<b>Village Name- Tegni S1</b>				
11	649099.966	2569612.963	E82°27'26.12361"	N23°13'44.22620"
13	649212.074	2570630.600	E82°27'30.42670"	N23°14'17.27184"
19	649064.160	2570868.557	E82°27'25.30724"	N23°14'25.05582"
20	649003.679	2570093.795	E82°27'22.90618"	N23°13'59.88892"
22	650577.962	2571361.253	E82°28'18.73751"	N23°14'40.57628"
27	649387.970	2571153.388	E82°27'36.79950"	N23°14'34.20956"

Table-2: Coordinates of Salka Protected Forest Pillar

Pillar id	UTM Co-ordinates		Geographic Co-ordinates	
	Easting	Northing	Longitude	Latitude
PF1	651758.797	2571230.675	82°29'0.232647"	23°14'35.940589"
PF2	651763.722	2571219.732	82°29'0.401952"	23°14'35.583211"
PF3	651748.075	2571214.774	82°28'59.84973"	23°14'35.427218"
PF4	651737.932	2571213.325	82°28'59.492355"	23°14'35.38348"
PF5	651720.714	2571209.021	82°28'58.885086"	23°14'35.249298"
PF6	651701.137	2571199.490	82°28'58.192955"	23°14'34.945951"
PF7	651693.307	2571194.553	82°28'57.915717"	23°14'34.788076"
PF8	651678.386	2571183.365	82°28'57.386779"	23°14'34.429313"
PF9	651650.286	2571159.103	82°28'56.38953"	23°14'33.649932"
PF10	651588.702	2571116.081	82°28'54.207573"	23°14'32.27178"
PF11	651441.087	2571012.931	82°28'48.977509"	23°14'28.967503"
PF12	651427.359	2571006.442	82°28'48.492264"	23°14'28.761098"
PF13	651411.260	2571001.694	82°28'47.924186"	23°14'28.612083"
PF14	651372.542	2570993.356	82°28'46.559123"	23°14'28.353867"
PF15	651321.030	2570987.833	82°28'44.744996"	23°14'28.19137"
PF16	651191.630	2570980.971	82°28'40.190337"	23°14'28.11128"
PF17	651161.310	2570977.482	82°28'39.122441"	23°14'27.907751"
PF18	651139.503	2570973.605	82°28'38.353906"	23°14'27.788938"
PF19	651116.174	2570968.013	82°28'37.531197"	23°14'27.614848"
PF20	651103.125	2570962.576	82°28'37.70205"	23°14'27.442415"
PF21	651087.448	2570953.953	82°28'36.515604"	23°14'27.167298"
PF22	651066.479	2570937.146	82°28'35.771909"	23°14'26.627847"
PF23	651045.716	2570918.492	82°28'35.3483"	23°14'26.28303"
PF24	650989.104	2570861.553	82°28'33.22907"	23°14'24.196018"
PF25	650918.914	2570786.043	82°28'30.526666"	23°14'21.764474"

Pillar id	UTM Co-ordinates		Geographic Co-ordinates	
	Easting	Northing	Longitude	Latitude
PF26	650865.811	2570737.904	82°28'28.641385"	23°14'20.217072"
PF27	650842.368	2570733.875	82°28'27.815244"	23°14'20.93861"
PF28	650765.411	2570711.856	82°28'25.100123"	23°14'19.403458"
PF29	650641.777	2570674.656	82°28'20.737556"	23°14'18.2349"
PF30	650469.700	2570626.282	82°28'14.666866"	23°14'16.719023"
PF31	650454.524	2570624.270	82°28'14.132275"	23°14'16.658632"
PF32	650422.336	2570625.493	82°28'13.385"	23°14'16.708966"
PF33	650399.606	2570629.926	82°28'12.202347"	23°14'16.860582"
PF34	650355.521	2570643.218	82°28'10.656234"	23°14'17.307194"
PF35	650270.945	2570676.523	82°28'7.692807"	23°14'18.417707"
PF36	650243.603	2570687.290	82°28'6.734785"	23°14'18.776711"
PF37	650222.981	2570700.151	82°28'6.13884"	23°14'19.201601"
PF38	650204.211	2570718.450	82°28'5.360092"	23°14'19.802659"
PF39	650195.269	2570727.168	82°28'5.48641"	23°14'20.88987"
PF40	650183.107	2570741.829	82°28'4.626016"	23°14'20.569588"
PF41	650145.468	2570830.033	82°28'3.333277"	23°14'23.449387"
PF42	650136.095	2570856.113	82°28'3.12826"	23°14'24.300277"
PF43	650127.413	2570875.172	82°28'2.714163"	23°14'24.922712"
PF44	650115.998	2570892.606	82°28'2.318774"	23°14'25.493237"
PF45	650105.886	2570902.314	82°28'1.966501"	23°14'25.81213"
PF46	650088.781	2570914.203	82°28'1.369"	23°14'26.204271"
PF47	650067.831	2570923.631	82°28'0.635346"	23°14'26.517628"
PF48	650051.272	2570928.122	82°28'0.54402"	23°14'26.669051"
PF49	650026.131	2570927.898	82°27'59.169857"	23°14'26.670051"
PF50	650002.814	2570924.295	82°27'58.348324"	23°14'26.560565"
PF51	649943.675	2570908.206	82°27'56.262127"	23°14'26.56935"
PF52	649740.552	2570847.243	82°27'49.94767"	23°14'24.141742"
PF53	649705.357	2570844.695	82°27'47.85573"	23°14'24.70442"
PF54	649629.256	2570851.245	82°27'45.180859"	23°14'24.308296"
PF55	649563.345	2570861.289	82°27'42.86571"	23°14'24.656399"
PF56	649566.455	2570872.953	82°27'42.979268"	23°14'25.34582"
PF57	649630.676	2570863.167	82°27'45.235035"	23°14'24.695405"
PF58	649705.439	2570856.732	82°27'47.862874"	23°14'24.461734"
PF59	649738.368	2570859.116	82°27'49.22141"	23°14'24.528444"
PF60	649940.375	2570919.744	82°27'56.150119"	23°14'26.433112"
PF61	650000.315	2570936.051	82°27'58.264575"	23°14'26.943564"
PF62	650025.156	2570939.890	82°27'59.139828"	23°14'27.6021"
PF63	650052.818	2570940.136	82°28'0.113056"	23°14'27.59109"
PF64	650071.889	2570934.964	82°28'0.782128"	23°14'26.884715"

Pillar id	UTM Co-ordinates		Geographic Co-ordinates	
	Easting	Northing	Longitude	Latitude
PF65	650094.719	2570924.691	82°28'1.581597"	23°14'26.543248"
PF66	650113.513	2570911.626	82°28'2.238127"	23°14'26.112367"
PF67	650125.291	2570900.320	82°28'2.648444"	23°14'25.740929"
PF68	650137.954	2570880.980	82°28'3.87046"	23°14'25.108049"
PF69	650147.221	2570860.637	82°28'3.40582"	23°14'24.443701"
PF70	650156.643	2570834.421	82°28'3.727946"	23°14'23.58836"
PF71	650193.459	2570748.145	82°28'4.992413"	23°14'20.771537"
PF72	650204.100	2570735.317	82°28'5.362204"	23°14'20.351018"
PF73	650211.471	2570728.131	82°28'5.618952"	23°14'20.114978"
PF74	650230.430	2570709.648	82°28'6.279322"	23°14'19.507874"
PF75	650249.022	2570698.053	82°28'6.92923"	23°14'19.124826"
PF76	650275.342	2570687.688	82°28'7.851454"	23°14'18.779237"
PF77	650359.458	2570654.565	82°28'10.798776"	23°14'17.674759"
PF78	650402.494	2570641.589	82°28'12.308096"	23°14'17.238775"
PF79	650423.721	2570637.449	82°28'13.53354"	23°14'17.97186"
PF80	650453.959	2570636.300	82°28'14.116696"	23°14'17.499"
PF81	650467.276	2570638.065	82°28'14.58578"	23°14'17.102891"
PF82	650638.392	2570686.169	82°28'20.622567"	23°14'18.610302"
PF83	650762.110	2570723.393	82°28'24.988119"	23°14'19.779601"
PF84	650839.694	2570745.592	82°28'27.725346"	23°14'20.475625"
PF85	650860.352	2570749.141	82°28'28.453349"	23°14'20.5842"
PF86	650910.672	2570794.768	82°28'30.239834"	23°14'22.50836"
PF87	650980.452	2570869.870	82°28'32.721483"	23°14'24.469247"
PF88	651037.445	2570927.192	82°28'34.746963"	23°14'26.31388"
PF89	651058.710	2570946.298	82°28'35.501889"	23°14'26.92794"
PF90	651080.754	2570963.967	82°28'36.283701"	23°14'27.495041"
PF91	651097.911	2570973.403	82°28'36.890641"	23°14'27.79612"
PF92	651112.444	2570979.458	82°28'37.404072"	23°14'27.988168"
PF93	651137.052	2570985.358	82°28'38.271886"	23°14'28.171802"
PF94	651159.572	2570989.361	82°28'39.65564"	23°14'28.294503"
PF95	651190.626	2570992.934	82°28'40.159283"	23°14'28.40038"
PF96	651320.147	2570999.803	82°28'44.718209"	23°14'28.58079"
PF97	651370.832	2571005.242	82°28'46.503229"	23°14'28.74081"
PF98	651408.292	2571013.330	82°28'47.823962"	23°14'28.991328"
PF99	651423.534	2571017.825	82°28'48.361788"	23°14'29.132408"
PF100	651435.420	2571023.523	82°28'48.781959"	23°14'29.313684"
PF101	651581.776	2571125.882	82°28'53.967418"	23°14'32.592684"
PF102	651643.146	2571168.786	82°28'56.141819"	23°14'33.967075"
PF103	651670.868	2571192.734	82°28'57.125686"	23°14'34.736387"

Pillar id	UTM Co-ordinates		Geographic Co-ordinates	
	Easting	Northing	Longitude	Latitude
PF104	651686.396	2571204.382	82°28'57.676115"	23°14'35.109883"
PF105	651695.240	2571209.957	82°28'57.989244"	23°14'35.288197"
PF106	651716.623	2571220.362	82°28'58.745247"	23°14'35.619347"
PF107	651735.653	2571225.121	82°28'59.416431"	23°14'35.767716"
PF108	651745.808	2571226.572	82°28'59.774207"	23°14'35.811504"

Table-3: Coordinates of Bundiyabhar Reserve Forest Pillar

Pillar id	UTM Co-ordinates		Geographic Co-ordinates	
	Easting	Northing	Longitude	Latitude
RF1	642195.687	2568217.249	82°23'22.781596"	23°13'1.51616"
RF2	642241.086	2568211.629	82°23'24.3766"	23°13'0.854803"
RF3	642256.125	2568211.629	82°23'24.90558"	23°13'0.850125"
RF4	642275.965	2568217.815	82°23'25.605512"	23°13'1.45057"
RF5	642306.426	2568226.672	82°23'26.679932"	23°13'1.323536"
RF6	642371.984	2568244.256	82°23'28.991824"	23°13'1.874779"
RF7	642407.769	2568261.074	82°23'30.256224"	23°13'2.410372"
RF8	642486.119	2568328.765	82°23'33.34935"	23°13'4.586623"
RF9	642507.823	2568343.661	82°23'33.803395"	23°13'5.64102"
RF10	642519.777	2568351.864	82°23'34.226629"	23°13'5.327074"
RF11	642540.520	2568369.505	82°23'34.96223"	23°13'5.894094"
RF12	642553.153	2568379.064	82°23'35.409794"	23°13'6.200937"
RF13	642563.819	2568384.930	82°23'35.786955"	23°13'6.388329"
RF14	642575.989	2568389.208	82°23'36.216482"	23°13'6.523602"
RF15	642639.896	2568398.994	82°23'38.467678"	23°13'6.821808"
RF16	642670.519	2568404.758	82°23'39.546799"	23°13'6.999645"
RF17	642734.554	2568410.869	82°23'41.801251"	23°13'7.178316"
RF18	642875.744	2568419.755	82°23'46.770574"	23°13'7.423112"
RF19	642887.664	2568422.749	82°23'47.190866"	23°13'7.516741"
RF20	642981.081	2568419.098	82°23'50.475561"	23°13'7.368834"
RF21	643043.983	2568389.604	82°23'52.678126"	23°13'6.39034"
RF22	643103.875	2568349.272	82°23'54.771161"	23°13'5.60406"
RF23	643153.482	2568323.917	82°23'56.507492"	23°13'4.220601"
RF24	643167.691	2568319.248	82°23'57.5703"	23°13'4.64376"
RF25	643183.664	2568320.608	82°23'57.567984"	23°13'4.10357"
RF26	643191.668	2568324.330	82°23'57.850775"	23°13'4.222085"
RF27	643206.536	2568339.218	82°23'58.378806"	23°13'4.701418"
RF28	643208.804	2568347.659	82°23'58.461428"	23°13'4.975119"
RF29	643216.278	2568387.672	82°23'58.737894"	23°13'6.27361"
RF30	643221.062	2568474.238	82°23'58.9355"	23°13'9.86345"

Pillar id	UTM Co-ordinates		Geographic Co-ordinates	
	Easting	Northing	Longitude	Latitude
RF31	643223.608	2568482.462	82°23'59.27836"	23°13'9.352919"
RF32	643238.044	2568496.176	82°23'59.540262"	23°13'9.794208"
RF33	643262.846	2568502.173	82°24'0.414698"	23°13'9.981403"
RF34	643425.198	2568541.429	82°24'6.138726"	23°13'11.20673"
RF35	643514.818	2568566.268	82°24'9.299569"	23°13'11.986117"
RF36	643532.278	2568572.955	82°24'9.915978"	23°13'12.198044"
RF37	643541.104	2568582.493	82°24'10.22968"	23°13'12.505334"
RF38	643548.442	2568600.759	82°24'10.493987"	23°13'13.96867"
RF39	643586.753	2568736.224	82°24'11.887604"	23°13'17.488749"
RF40	643611.764	2568821.744	82°24'12.796426"	23°13'20.261147"
RF41	643626.784	2568867.483	82°24'13.340317"	23°13'21.743369"
RF42	643627.555	2568889.326	82°24'13.374858"	23°13'22.453236"
RF43	643625.829	2568907.058	82°24'13.32017"	23°13'23.30231"
RF44	643618.367	2568937.704	82°24'13.6811"	23°13'24.28878"
RF45	643592.228	2569090.249	82°24'12.200504"	23°13'28.996282"
RF46	643581.805	2569151.080	82°24'11.854523"	23°13'30.977156"
RF47	643567.820	2569219.009	82°24'11.385651"	23°13'33.189885"
RF48	643555.344	2569294.123	82°24'10.972325"	23°13'35.635737"
RF49	643556.061	2569304.344	82°24'11.1024"	23°13'35.967798"
RF50	643560.910	2569317.361	82°24'11.176"	23°13'36.389468"
RF51	643587.904	2569353.745	82°24'12.137929"	23°13'37.563804"
RF52	643620.001	2569407.731	82°24'13.285355"	23°13'39.308789"
RF53	643641.709	2569452.040	82°24'14.64028"	23°13'40.74246"
RF54	643650.357	2569463.081	82°24'14.372014"	23°13'41.98672"
RF55	643670.067	2569470.332	82°24'15.67795"	23°13'41.328184"
RF56	643691.612	2569467.807	82°24'15.824854"	23°13'41.239329"
RF57	643733.184	2569467.655	82°24'17.287175"	23°13'41.221327"
RF58	643756.025	2569471.508	82°24'18.91949"	23°13'41.339392"
RF59	643823.626	2569485.427	82°24'20.474701"	23°13'41.770628"
RF60	643841.714	2569488.638	82°24'21.112085"	23°13'41.869353"
RF61	643961.933	2569491.292	82°24'25.341927"	23°13'41.917767"
RF62	643976.782	2569489.545	82°24'25.863702"	23°13'41.856299"
RF63	643998.484	2569480.349	82°24'26.623981"	23°13'41.550526"
RF64	644013.755	2569468.565	82°24'27.157132"	23°13'41.162602"
RF65	644025.983	2569461.040	82°24'27.584718"	23°13'40.91411"
RF66	644051.282	2569449.388	82°24'28.4707"	23°13'40.527356"
RF67	644071.460	2569435.552	82°24'29.175766"	23°13'40.71198"
RF68	644097.566	2569410.469	82°24'30.85556"	23°13'39.247505"
RF69	644112.430	2569389.698	82°24'30.601342"	23°13'38.567559"

Pillar id	UTM Co-ordinates		Geographic Co-ordinates	
	Easting	Northing	Longitude	Latitude
RF70	644138.770	2569362.763	82°24'31.518698"	23°13'37.683634"
RF71	644154.276	2569354.769	82°24'32.61431"	23°13'37.418838"
RF72	644174.383	2569341.498	82°24'32.764189"	23°13'36.981083"
RF73	644188.146	2569329.434	82°24'33.244219"	23°13'36.584545"
RF74	644220.783	2569299.460	82°24'34.382049"	23°13'35.599818"
RF75	644234.584	2569292.655	82°24'34.865174"	23°13'35.374224"
RF76	644245.129	2569291.065	82°24'35.235578"	23°13'35.319203"
RF77	644262.123	2569293.762	82°24'35.834293"	23°13'35.401535"
RF78	644278.674	2569300.993	82°24'36.418958"	23°13'35.631388"
RF79	644309.872	2569310.725	82°24'37.519732"	23°13'35.937909"
RF80	644403.408	2569299.816	82°24'40.806275"	23°13'35.553714"
RF81	644445.382	2569300.168	82°24'42.282894"	23°13'35.551898"
RF82	644463.867	2569302.897	82°24'42.934081"	23°13'35.634787"
RF83	644488.203	2569303.304	82°24'43.790277"	23°13'35.640339"
RF84	644519.445	2569307.826	82°24'44.890785"	23°13'35.777467"
RF85	644559.041	2569317.913	82°24'46.287105"	23°13'36.92883"
RF86	644565.843	2569323.116	82°24'46.528146"	23°13'36.259874"
RF87	644584.766	2569377.048	82°24'47.212269"	23°13'38.7193"
RF88	644595.870	2569397.669	82°24'47.609913"	23°13'38.674048"
RF89	644599.666	2569413.083	82°24'47.748727"	23°13'39.173947"
RF90	644586.330	2569438.191	82°24'47.288199"	23°13'39.994422"
RF91	644583.394	2569453.873	82°24'47.190286"	23°13'40.505166"
RF92	644586.680	2569465.430	82°24'47.309848"	23°13'40.879822"
RF93	644596.389	2569474.179	82°24'47.654358"	23°13'41.161202"
RF94	644654.051	2569501.028	82°24'49.691907"	23°13'42.15794"
RF95	644677.492	2569505.519	82°24'50.518047"	23°13'42.154369"
RF96	644687.297	2569503.118	82°24'50.862124"	23°13'42.73209"
RF97	644699.503	2569496.336	82°24'51.289196"	23°13'41.848884"
RF98	644714.447	2569490.263	82°24'51.812777"	23°13'41.646718"
RF99	644734.966	2569485.833	82°24'52.533054"	23°13'41.496203"
RF100	644748.947	2569491.875	82°24'53.26929"	23°13'41.688199"
RF101	644779.765	2569515.642	82°24'54.119169"	23°13'42.451088"
RF102	644798.182	2569522.276	82°24'54.769302"	23°13'42.660931"
RF103	644890.024	2569546.068	82°24'58.8189"	23°13'43.405303"
RF104	644946.907	2569565.328	82°25'0.15766"	23°13'44.13382"
RF105	644970.542	2569571.237	82°25'0.849211"	23°13'44.198003"
RF106	645057.457	2569581.860	82°25'3.910286"	23°13'44.515775"
RF107	645071.233	2569579.794	82°25'4.394168"	23°13'44.444231"
RF108	645116.566	2569576.977	82°25'5.987874"	23°13'44.338255"

Pillar id	UTM Co-ordinates		Geographic Co-ordinates	
	Easting	Northing	Longitude	Latitude
RF109	645166.952	2569579.337	82°25'7.761107"	23°13'44.39897"
RF110	645179.481	2569587.043	82°25'8.2045"	23°13'44.645521"
RF111	645244.573	2569678.387	82°25'10.525645"	23°13'47.594383"
RF112	645246.387	2569689.954	82°25'10.593461"	23°13'47.96986"
RF113	645229.905	2569714.801	82°25'10.22192"	23°13'48.782862"
RF114	645220.039	2569731.908	82°25'9.681028"	23°13'49.342111"
RF115	645220.039	2569742.657	82°25'9.684723"	23°13'49.691562"
RF116	645232.325	2569765.176	82°25'10.124645"	23°13'50.419756"
RF117	645254.998	2569787.800	82°25'10.930009"	23°13'51.148039"
RF118	645264.155	2569790.124	82°25'11.252939"	23°13'51.220658"
RF119	645273.593	2569786.895	82°25'11.583825"	23°13'51.112697"
RF120	645284.667	2569779.548	82°25'11.970853"	23°13'50.870324"
RF121	645295.682	2569761.143	82°25'12.352004"	23°13'50.268492"
RF122	645301.058	2569728.470	82°25'12.52989"	23°13'49.204595"
RF123	645309.874	2569719.217	82°25'12.836825"	23°13'48.901005"
RF124	645317.385	2569716.466	82°25'13.100077"	23°13'48.809172"
RF125	645325.881	2569717.663	82°25'13.399371"	23°13'48.845368"
RF126	645344.830	2569735.510	82°25'14.72067"	23°13'49.419567"
RF127	645369.909	2569756.335	82°25'14.961448"	23°13'50.8859"
RF128	645387.892	2569777.273	82°25'15.601252"	23°13'50.763563"
RF129	645392.922	2569787.298	82°25'15.781674"	23°13'51.87852"
RF130	645397.829	2569790.160	82°25'15.955249"	23°13'51.179341"
RF131	645406.243	2569793.651	82°25'16.252456"	23°13'51.290143"
RF132	645417.997	2569790.055	82°25'16.664677"	23°13'51.169524"
RF133	645421.337	2569783.982	82°25'16.780095"	23°13'50.971007"
RF134	645423.485	2569775.744	82°25'16.852797"	23°13'50.702513"
RF135	645424.625	2569704.711	82°25'16.868466"	23°13'48.39291"
RF136	645428.724	2569695.930	82°25'17.9646"	23°13'48.106152"
RF137	645436.642	2569691.983	82°25'17.286791"	23°13'47.975308"
RF138	645466.244	2569709.915	82°25'18.334313"	23°13'48.548844"
RF139	645482.922	2569724.758	82°25'18.926087"	23°13'49.26093"
RF140	645497.006	2569744.874	82°25'19.428456"	23°13'49.675564"
RF141	645530.743	2569814.531	82°25'20.63923"	23°13'51.929309"
RF142	645538.887	2569837.153	82°25'20.933513"	23°13'52.662165"
RF143	645543.299	2569843.526	82°25'21.90919"	23°13'52.86794"
RF144	645549.075	2569847.428	82°25'21.295445"	23°13'52.992956"
RF145	645556.185	2569846.291	82°25'21.545172"	23°13'52.953717"
RF146	645561.974	2569842.478	82°25'21.747523"	23°13'52.827928"
RF147	645567.438	2569834.877	82°25'21.937088"	23°13'52.579073"

Pillar id	UTM Co-ordinates		Geographic Co-ordinates	
	Easting	Northing	Longitude	Latitude
RF148	645570.971	2569823.502	82°25'22.5746"	23°13'52.208169"
RF149	645573.131	2569786.213	82°25'22.12058"	23°13'50.995236"
RF150	645556.021	2569725.460	82°25'21.497776"	23°13'49.25625"
RF151	645552.978	2569712.861	82°25'21.386388"	23°13'48.617005"
RF152	645554.075	2569703.113	82°25'21.421626"	23°13'48.299777"
RF153	645569.040	2569697.153	82°25'21.946004"	23°13'48.101238"
RF154	645581.350	2569697.938	82°25'22.379303"	23°13'48.122849"
RF155	645587.776	2569707.417	82°25'22.608595"	23°13'48.428946"
RF156	645591.856	2569723.266	82°25'22.757577"	23°13'48.942899"
RF157	645605.152	2569742.309	82°25'23.231865"	23°13'49.557721"
RF158	645620.624	2569751.961	82°25'23.779483"	23°13'49.866575"
RF159	645640.329	2569754.279	82°25'24.473454"	23°13'49.935664"
RF160	645653.908	2569758.302	82°25'24.952483"	23°13'50.62109"
RF161	645667.969	2569769.849	82°25'25.451125"	23°13'50.43301"
RF162	645680.580	2569789.728	82°25'25.901586"	23°13'51.75251"
RF163	645692.832	2569797.248	82°25'26.335172"	23°13'51.31584"
RF164	645710.480	2569803.771	82°25'26.958258"	23°13'51.522247"
RF165	645728.494	2569813.610	82°25'27.595339"	23°13'51.836364"
RF166	645802.933	2569879.083	82°25'30.236516"	23°13'53.941104"
RF167	645809.344	2569881.077	82°25'30.462723"	23°13'54.3895"
RF168	645815.766	2569881.077	82°25'30.688638"	23°13'54.1846"
RF169	645823.076	2569876.204	82°25'30.944089"	23°13'53.841101"
RF170	645825.420	2569866.974	82°25'31.23363"	23°13'53.540294"
RF171	645823.804	2569856.308	82°25'30.962828"	23°13'53.194046"
RF172	645810.774	2569815.927	82°25'30.490522"	23°13'51.88547"
RF173	645792.539	2569790.669	82°25'29.840358"	23°13'51.70154"
RF174	645782.370	2569781.995	82°25'29.479621"	23°13'50.791405"
RF175	645770.123	2569774.667	82°25'29.46296"	23°13'50.557093"
RF176	645752.956	2569768.851	82°25'28.440406"	23°13'50.373489"
RF177	645741.192	2569763.228	82°25'28.24621"	23°13'50.194451"
RF178	645728.977	2569754.516	82°25'27.591923"	23°13'49.915097"
RF179	645721.710	2569746.243	82°25'27.333428"	23°13'49.648487"
RF180	645719.997	2569739.464	82°25'27.270844"	23°13'49.428636"
RF181	645715.916	2569705.871	82°25'27.115688"	23°13'48.337873"
RF182	645716.457	2569701.071	82°25'27.133062"	23°13'48.18163"
RF183	645721.150	2569703.906	82°25'27.299122"	23°13'48.272293"
RF184	645721.806	2569708.039	82°25'27.323631"	23°13'48.406459"
RF185	645722.362	2569724.905	82°25'27.349007"	23°13'48.954587"
RF186	645724.672	2569737.821	82°25'27.434728"	23°13'49.37374"

Pillar id	UTM Co-ordinates		Geographic Co-ordinates	
	Easting	Northing	Longitude	Latitude
RF187	645729.284	2569745.251	82°25'27.59952"	23°13'49.613824"
RF188	645744.072	2569753.297	82°25'28.122518"	23°13'49.870682"
RF189	645770.267	2569754.570	82°25'29.4441"	23°13'49.903709"
RF190	645795.826	2569750.576	82°25'29.942151"	23°13'49.765697"
RF191	645805.825	2569753.396	82°25'30.294869"	23°13'49.854201"
RF192	645837.186	2569783.256	82°25'31.40836"	23°13'50.814923"
RF193	645845.642	2569796.195	82°25'31.710279"	23°13'51.232874"
RF194	645848.651	2569804.521	82°25'31.819011"	23°13'51.502587"
RF195	645853.271	2569813.552	82°25'31.984654"	23°13'51.794684"
RF196	645879.632	2569833.279	82°25'32.91877"	23°13'52.427579"
RF197	645902.792	2569841.305	82°25'33.736271"	23°13'52.681101"
RF198	645932.121	2569853.439	82°25'34.77216"	23°13'53.66224"
RF199	645926.039	2569838.235	82°25'34.552967"	23°13'52.573884"
RF200	645906.846	2569829.985	82°25'33.874945"	23°13'52.311823"
RF201	645884.572	2569822.312	82°25'33.88751"	23°13'52.69476"
RF202	645867.102	2569811.905	82°25'32.470629"	23°13'51.736721"
RF203	645863.466	2569807.132	82°25'32.341065"	23°13'51.582725"
RF204	645859.069	2569796.717	82°25'32.182804"	23°13'51.245538"
RF205	645856.320	2569790.690	82°25'32.84"	23°13'51.50472"
RF206	645846.306	2569775.370	82°25'31.726461"	23°13'50.555653"
RF207	645812.239	2569742.933	82°25'30.516859"	23°13'49.512007"
RF208	645796.243	2569738.421	82°25'29.952603"	23°13'49.370432"
RF209	645769.349	2569742.554	82°25'29.7984"	23°13'49.513347"
RF210	645746.600	2569741.425	82°25'28.207341"	23°13'49.483923"
RF211	645738.117	2569736.728	82°25'27.907308"	23°13'49.333913"
RF212	645736.080	2569733.446	82°25'27.834517"	23°13'49.227864"
RF213	645734.327	2569723.644	82°25'27.769467"	23°13'48.909791"
RF214	645733.775	2569706.896	82°25'27.744269"	23°13'48.365491"
RF215	645732.584	2569699.394	82°25'27.699785"	23°13'48.121979"
RF216	645723.013	2569689.006	82°25'27.359534"	23°13'47.787328"
RF217	645715.680	2569688.680	82°25'27.101476"	23°13'47.779075"
RF218	645707.756	2569691.322	82°25'26.823644"	23°13'47.867472"
RF219	645704.763	2569697.684	82°25'26.72052"	23°13'48.7525"
RF220	645703.834	2569705.924	82°25'26.690698"	23°13'48.343431"
RF221	645708.176	2569741.666	82°25'26.855782"	23°13'49.503987"
RF222	645710.784	2569751.989	82°25'26.951075"	23°13'49.838748"
RF223	645720.878	2569763.479	82°25'27.310119"	23°13'50.209063"
RF224	645735.074	2569773.605	82°25'27.813001"	23°13'50.533728"
RF225	645748.428	2569779.987	82°25'28.284942"	23°13'50.736948"

Pillar id	UTM Co-ordinates		Geographic Co-ordinates	
	Easting	Northing	Longitude	Latitude
RF226	645765.060	2569785.622	82°25'28.871973"	23°13'50.914836"
RF227	645775.346	2569791.777	82°25'29.235935"	23°13'51.111642"
RF228	645784.015	2569799.171	82°25'29.543444"	23°13'51.349261"
RF229	645799.949	2569821.194	82°25'30.111561"	23°13'52.6014"
RF230	645812.038	2569858.755	82°25'30.549766"	23°13'53.277355"
RF231	645813.192	2569866.372	82°25'30.592998"	23°13'53.524634"
RF232	645812.133	2569869.077	82°25'30.556689"	23°13'53.612893"
RF233	645809.267	2569868.486	82°25'30.455669"	23°13'53.594587"
RF234	645734.997	2569803.434	82°25'27.820555"	23°13'51.50348"
RF235	645715.857	2569792.964	82°25'27.14366"	23°13'51.169226"
RF236	645698.101	2569786.403	82°25'26.516794"	23°13'50.961567"
RF237	645689.427	2569781.078	82°25'26.209824"	23°13'50.791237"
RF238	645677.287	2569762.244	82°25'25.776278"	23°13'50.182811"
RF239	645659.397	2569747.564	82°25'25.141887"	23°13'49.711293"
RF240	645641.762	2569742.352	82°25'24.519735"	23°13'49.547476"
RF241	645624.159	2569740.423	82°25'23.899843"	23°13'49.490355"
RF242	645613.774	2569733.822	82°25'23.532267"	23°13'49.279066"
RF243	645603.061	2569718.142	82°25'23.149982"	23°13'48.772733"
RF244	645599.014	2569703.147	82°25'23.2465"	23°13'48.286567"
RF245	645595.108	2569694.489	82°25'22.862055"	23°13'48.6336"
RF246	645591.009	2569689.597	82°25'22.71619"	23°13'47.848614"
RF247	645585.308	2569686.399	82°25'22.514543"	23°13'47.746459"
RF248	645567.697	2569685.153	82°25'21.894623"	23°13'47.711553"
RF249	645550.702	2569690.120	82°25'21.298476"	23°13'47.878443"
RF250	645543.618	2569696.592	82°25'21.51511"	23°13'48.91114"
RF251	645540.910	2569713.587	82°25'20.962129"	23°13'48.644459"
RF252	645544.517	2569728.877	82°25'21.94255"	23°13'49.140369"
RF253	645561.034	2569787.529	82°25'21.695516"	23°13'51.41853"
RF254	645559.076	2569821.344	82°25'21.638277"	23°13'52.14178"
RF255	645556.556	2569829.456	82°25'21.552427"	23°13'52.406308"
RF256	645551.841	2569834.783	82°25'21.388402"	23°13'52.580991"
RF257	645541.900	2569810.096	82°25'21.30191"	23°13'51.781581"
RF258	645507.343	2569738.716	82°25'19.789981"	23°13'49.472086"
RF259	645492.110	2569716.959	82°25'19.246627"	23°13'48.769629"
RF260	645473.425	2569700.280	82°25'18.583601"	23°13'48.233333"
RF261	645445.693	2569683.132	82°25'17.602133"	23°13'47.684703"
RF262	645438.715	2569679.566	82°25'17.355438"	23°13'47.570977"
RF263	645429.043	2569680.945	82°25'17.15679"	23°13'47.618898"
RF264	645419.649	2569687.669	82°25'16.687549"	23°13'47.84047"

Pillar id	UTM Co-ordinates		Geographic Co-ordinates	
	Easting	Northing	Longitude	Latitude
RF265	645412.724	2569702.344	82°25'16.449008"	23°13'48.319762"
RF266	645411.506	2569774.124	82°25'16.430853"	23°13'50.653679"
RF267	645409.379	2569780.823	82°25'16.358364"	23°13'50.872113"
RF268	645402.049	2569778.729	82°25'16.9976"	23°13'50.806385"
RF269	645398.113	2569770.887	82°25'15.958619"	23°13'50.552702"
RF270	645378.049	2569747.499	82°25'15.244774"	23°13'49.798751"
RF271	645353.032	2569726.686	82°25'14.35758"	23°13'49.130077"
RF272	645331.392	2569706.938	82°25'13.589548"	23°13'48.494971"
RF273	645325.382	2569704.559	82°25'13.377307"	23°13'48.419544"
RF274	645315.324	2569704.441	82°25'13.23458"	23°13'48.4189"
RF275	645304.181	2569708.523	82°25'12.632865"	23°13'48.555155"
RF276	645295.135	2569715.081	82°25'12.316922"	23°13'48.771222"
RF277	645289.725	2569724.020	82°25'12.129678"	23°13'49.63531"
RF278	645284.020	2569757.836	82°25'11.940622"	23°13'50.164696"
RF279	645276.381	2569770.645	82°25'11.676298"	23°13'50.583519"
RF280	645263.648	2569777.615	82°25'11.230773"	23°13'50.814158"
RF281	645241.732	2569757.681	82°25'10.452997"	23°13'50.173104"
RF282	645232.039	2569740.861	82°25'10.106235"	23°13'49.629373"
RF283	645232.039	2569734.551	82°25'10.104066"	23°13'49.424228"
RF284	645239.905	2569721.435	82°25'10.376236"	23°13'48.995342"
RF285	645258.105	2569693.998	82°25'11.705"	23°13'48.97601"
RF286	645257.823	2569678.602	82°25'10.991846"	23°13'47.597181"
RF287	645187.705	2569578.013	82°25'8.490705"	23°13'44.34936"
RF288	645171.147	2569567.829	82°25'7.904719"	23°13'44.23519"
RF289	645116.304	2569564.970	82°25'5.974549"	23°13'43.948"
RF290	645069.969	2569567.849	82°25'4.345584"	23°13'44.5632"
RF291	645057.106	2569569.779	82°25'3.893763"	23°13'44.123125"
RF292	644972.819	2569559.437	82°25'0.925253"	23°13'43.813665"
RF293	644950.292	2569553.805	82°25'0.130893"	23°13'43.637702"
RF294	644893.572	2569534.601	82°24'58.129065"	23°13'43.31364"
RF295	644801.632	2569510.764	82°24'54.886706"	23°13'42.285583"
RF296	644785.337	2569504.894	82°24'54.311501"	23°13'42.99925"
RF297	644755.520	2569481.746	82°24'53.254705"	23°13'41.356812"
RF298	644736.010	2569473.669	82°24'52.565625"	23°13'41.100418"
RF299	644710.492	2569478.917	82°24'51.669782"	23°13'41.279117"
RF300	644694.312	2569485.493	82°24'51.102848"	23°13'41.498022"
RF301	644682.877	2569491.845	82°24'50.702808"	23°13'41.708149"
RF302	644676.593	2569493.384	82°24'50.482281"	23°13'41.760166"
RF303	644658.007	2569489.667	82°24'49.827189"	23°13'41.645192"

Pillar id	UTM Co-ordinates		Geographic Co-ordinates	
	Easting	Northing	Longitude	Latitude
RF304	644608.492	2569466.841	82°24'48.77603"	23°13'40.918807"
RF305	644597.279	2569458.827	82°24'47.680395"	23°13'40.661811"
RF306	644595.709	2569453.306	82°24'47.623283"	23°13'40.482846"
RF307	644597.788	2569442.201	82°24'47.692619"	23°13'40.121163"
RF308	644612.236	2569415.000	82°24'48.191538"	23°13'39.232304"
RF309	644606.931	2569392.900	82°24'47.997378"	23°13'38.515515"
RF310	644595.625	2569371.903	82°24'47.592479"	23°13'37.836492"
RF311	644576.385	2569316.756	82°24'46.896808"	23°13'36.49765"
RF312	644563.726	2569306.677	82°24'46.448056"	23°13'35.726124"
RF313	644522.057	2569296.079	82°24'44.978673"	23°13'35.394756"
RF314	644489.167	2569291.319	82°24'43.820079"	23°13'35.25039"
RF315	644464.848	2569290.912	82°24'42.964489"	23°13'35.244841"
RF316	644446.641	2569288.223	82°24'42.323108"	23°13'35.163201"
RF317	644402.671	2569287.837	82°24'40.776264"	23°13'35.164518"
RF318	644310.425	2569298.544	82°24'37.535009"	23°13'35.541754"
RF319	644282.789	2569289.696	82°24'36.55986"	23°13'35.262818"
RF320	644265.520	2569282.151	82°24'35.949837"	23°13'35.22994"
RF321	644245.176	2569278.922	82°24'35.233092"	23°13'34.924431"
RF322	644231.659	2569280.960	82°24'34.758317"	23°13'34.994956"
RF323	644213.938	2569289.587	82°24'34.137902"	23°13'35.281011"
RF324	644179.922	2569320.686	82°24'32.951929"	23°13'36.302731"
RF325	644167.089	2569331.934	82°24'32.504353"	23°13'36.67246"
RF326	644148.204	2569344.398	82°24'31.844297"	23°13'37.83615"
RF327	644132.108	2569352.697	82°24'31.28092"	23°13'37.358482"
RF328	644103.023	2569382.223	82°24'30.267871"	23°13'38.327537"
RF329	644088.271	2569402.838	82°24'29.755964"	23°13'39.2369"
RF330	644064.141	2569426.021	82°24'28.915053"	23°13'39.763641"
RF331	644045.337	2569438.915	82°24'28.257981"	23°13'40.188749"
RF332	644020.308	2569450.442	82°24'27.381479"	23°13'40.571364"
RF333	644006.925	2569458.677	82°24'26.913526"	23°13'40.843316"
RF334	643991.988	2569470.205	82°24'26.391996"	23°13'41.222784"
RF335	643974.289	2569477.755	82°24'25.771966"	23°13'41.473815"
RF336	643961.229	2569479.292	82°24'25.313094"	23°13'41.527873"
RF337	643843.070	2569476.691	82°24'21.155721"	23°13'41.480537"
RF338	643826.026	2569473.665	82°24'20.555111"	23°13'41.387508"
RF339	643758.020	2569459.675	82°24'18.158132"	23°13'40.954083"
RF340	643734.386	2569455.688	82°24'17.325377"	23°13'40.831912"
RF341	643690.767	2569455.824	82°24'15.791034"	23°13'40.85003"
RF342	643670.284	2569458.224	82°24'15.71344"	23°13'40.9345"

Pillar id	UTM Co-ordinates		Geographic Co-ordinates	
	Easting	Northing	Longitude	Latitude
RF343	643658.473	2569453.982	82°24'14.65441"	23°13'40.800316"
RF344	643651.689	2569445.322	82°24'14.412831"	23°13'40.52091"
RF345	643630.712	2569402.292	82°24'13.660287"	23°13'39.128612"
RF346	643597.797	2569346.940	82°24'12.483629"	23°13'37.339466"
RF347	643571.561	2569311.578	82°24'11.548713"	23°13'36.19811"
RF348	643567.911	2569301.778	82°24'11.416976"	23°13'35.880643"
RF349	643567.315	2569293.283	82°24'11.393125"	23°13'35.604675"
RF350	643579.465	2569221.956	82°24'11.79628"	23°13'33.282039"
RF351	643593.599	2569153.304	82°24'12.270143"	23°13'31.4575"
RF352	643604.056	2569092.276	82°24'12.617243"	23°13'29.58452"
RF353	643630.125	2568940.140	82°24'13.482519"	23°13'24.104366"
RF354	643637.690	2568909.068	82°24'13.738072"	23°13'23.91876"
RF355	643639.575	2568889.697	82°24'13.797817"	23°13'22.461532"
RF356	643638.724	2568865.571	82°24'13.759664"	23°13'21.677467"
RF357	643623.189	2568818.061	82°24'13.197065"	23°13'20.137798"
RF358	643598.330	2568733.059	82°24'12.293756"	23°13'17.382225"
RF359	643559.770	2568596.766	82°24'10.891093"	23°13'12.963497"
RF360	643551.676	2568576.616	82°24'10.599531"	23°13'12.310968"
RF361	643538.831	2568562.841	82°24'10.143047"	23°13'11.867183"
RF362	643518.203	2568554.753	82°24'9.414694"	23°13'11.610724"
RF363	643428.211	2568529.812	82°24'6.240783"	23°13'10.828114"
RF364	643265.666	2568490.509	82°24'0.509948"	23°13'9.60133"
RF365	643243.141	2568485.062	82°23'59.715793"	23°13'9.431321"
RF366	643234.483	2568477.013	82°23'59.408517"	23°13'9.172367"
RF367	643232.760	2568471.447	82°23'59.346026"	23°13'8.991955"
RF368	643228.239	2568386.491	82°23'59.158235"	23°13'6.231465"
RF369	643220.393	2568344.545	82°23'58.868012"	23°13'4.870268"
RF370	643217.485	2568333.724	82°23'58.762087"	23°13'4.519372"
RF371	643198.224	2568314.145	82°23'58.77955"	23°13'3.888924"
RF372	643187.403	2568309.112	82°23'57.695614"	23°13'3.728689"
RF373	643165.287	2568307.407	82°23'56.917133"	23°13'3.680171"
RF374	643148.851	2568312.808	82°23'56.340824"	23°13'3.860886"
RF375	643097.771	2568338.915	82°23'54.552946"	23°13'4.725622"
RF376	643037.899	2568379.234	82°23'52.460617"	23°13'6.55108"
RF377	642978.461	2568407.191	82°23'50.379366"	23°13'6.982568"
RF378	642888.917	2568410.691	82°23'47.23086"	23°13'7.124342"
RF379	642877.598	2568407.848	82°23'46.831775"	23°13'7.35438"
RF380	642735.501	2568398.904	82°23'41.830524"	23°13'6.789068"
RF381	642672.203	2568392.864	82°23'39.601994"	23°13'6.612452"

Pillar id	UTM Co-ordinates		Geographic Co-ordinates	
	Easting	Northing	Longitude	Latitude
RF382	642641.725	2568387.128	82°23'38.528016"	23°13'6.435462"
RF383	642579.087	2568377.577	82°23'36.321512"	23°13'6.144515"
RF384	642568.734	2568373.938	82°23'35.95611"	23°13'6.29438"
RF385	642559.699	2568368.969	82°23'35.63666"	23°13'5.870719"
RF386	642548.034	2568360.142	82°23'35.223363"	23°13'5.58737"
RF387	642527.078	2568342.321	82°23'34.480238"	23°13'5.14549"
RF388	642514.613	2568333.766	82°23'34.38899"	23°13'4.740328"
RF389	642493.459	2568319.249	82°23'33.289918"	23°13'4.274953"
RF390	642414.366	2568250.915	82°23'30.484845"	23°13'2.78055"
RF391	642376.244	2568232.999	82°23'29.137876"	23°13'1.507487"
RF392	642309.351	2568215.026	82°23'26.778921"	23°13'0.944006"
RF393	642279.730	2568206.413	82°23'25.734114"	23°13'0.673202"
RF394	642257.425	2568199.629	82°23'24.947254"	23°13'0.459602"
RF395	642240.345	2568199.629	82°23'24.34649"	23°13'0.464914"
RF396	642193.742	2568205.466	82°23'22.709206"	23°13'0.669166"

Table-4: Area Statement of Village Forest

Sr. No.	Patch No.	Plot No./ Compartment No.	Length of Road (in M.)	Proposed Area (In Ac)	Proposed Area (In Ha)	Land Type	
1	Patch-1	P-466	1757.23	5.191	2.101	Protected Forest	
2		P-467	772.35	2.297	0.930		
3	Patch-2	199	75.62	0.094	0.038	Village Forest	
4	Patch-3	198	30.02	0.042	0.017		
5	Patch-3	196	33.33	0.025	0.010		
6	Patch-3	194	30.41	0.009	0.005		
7	Patch-4		40.57	0.023	0.008		
8	Patch-5	207	106.78	0.021	0.009		
9	Patch-6	55	60.22	0.059	0.024		
10	Patch-7		61.47	0.015	0.006		
11	Patch-8	511	2843.54	8.437	3.414		Reserve Forest
12		513	3254.83	9.655	3.907		
Total			9066.36	25.870	10.469		

  
Executive Engineer  
P.W.D., Dn. Korea  
Momenragarh (C.G.)

  
वन परिक्षेत्राधिकारी  
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करिया वन मण्डल, बैकुण्ठपुर