

Telesonic Networks Ltd.
3rd Floor, Metro Towers, Near
Vijay Nagar Square Scheme
No-58, Indore-452010

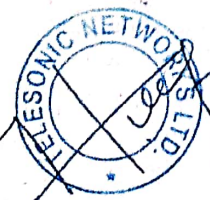
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DGPS Survey Report for Forest Diversion of Proposed OFC
Cable routes in Kawardha Forest (Bhoramdev Wildlife
Sanctuary) Division with Route Length 20.125 Km. under
(CG) SKY Project

APPLICATION SUBMITTED BY:

TELESONIC NETWORKS LIMITED



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DGPS Survey Report – (CG) SKY Project

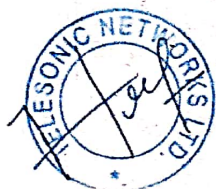
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1 Introduction and Background

1.1 Background

The Chhattisgarh Infotech Promotion Society (CHIPS) has selected an implementation partner (i.e. Telesonic Networks Limited) for Sanchar Kranti Yojna (CG-SKY) project. The Government has taken a leap forward to design the Sanchar Kranti Yojna (CG-SKY) for providing a solution to improve the telecom connectivity in the state of Chhattisgarh by incentivizing the telecom operators to install Cell-Sites. In order to create commercial viability for Telecom operators to invest in the network infrastructure the Government is distributing approx. 50 lakh Smartphones. The primary objective is to ensure the mobile network connectivity is extended to all villages in state of Chhattisgarh with a population of 1000 or above as per the 2011 census and to further strengthen network coverage in all towns and villages, which already have coverage by either erecting new telecom towers or upgradation of existing towers. Based on preliminary assessment, besides the urban areas, approximately 14,000 villages will come under network connectivity and approximately 50,80,000 Smartphones will be distributed under the CG-SKY scheme. The scheme would cover all villages and towns in the State of Chhattisgarh, except those villages having less than 1,000 population and not having connectivity. It may be noted that villages with less than 1,000 population, but having connectivity shall be considered for the CG-SKY.

1.2 Proposed Routes

Following image (Fig-1) shows the proposed routes in Kawardha Division



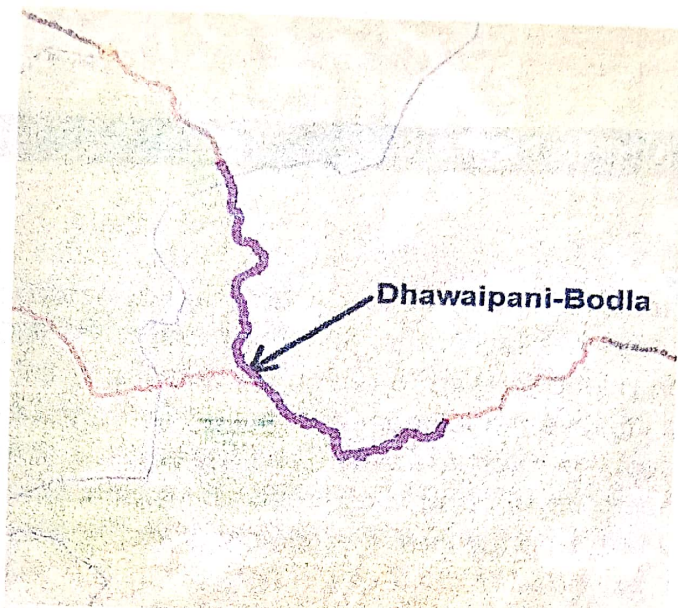


Fig-1: OFC Cable Proposed Routes on Online Map in Kawardha Division.

1.3 Work Location

The proposed OFC Cable route in Kawardha Forest Division (Tehsils covered along the route are: Bodla ; District: Kawardha). The Division length is approx. 20.125 km. The survey site passes through forest ranges – Bhoramdev , and Chilphi of Kawardha forest division. The OFC Cable route is covered under Survey of India Toposheets 64F3 & 64F4 on RF 1:50000.



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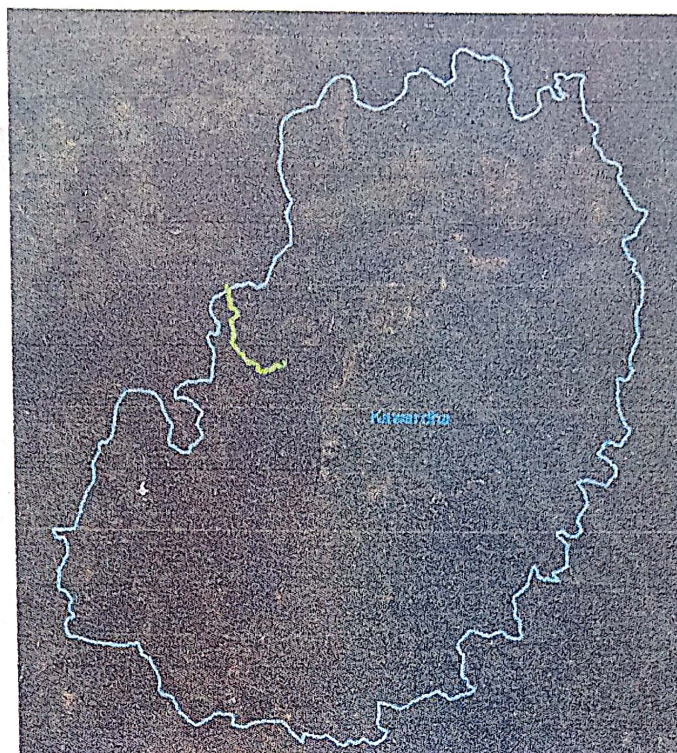
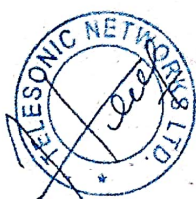


Fig-2: OFC Cable Proposed Routes on Satellite Imagery in Kawardha Division.



1.4 Objective

As per directives of Ministry of Environment & Forests (MoEF) dated 8th July 2011; all applications for Forest Diversion, under Forest Conservation Act, 1980 must be accompanied with Geo-referenced shape file, showing the boundary of the proposed area (both soft copy and hard copy maps), prepared using Differential GPS (DGPS) and the same should be uploaded to MoEF website along with the online application.

To meet this requirement, Telesonic Networks Limited entrusted the DGPS survey work to M/s Telesonic Networks Limited., Indore (MP), through Mobile Technology.

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2 cope of Work

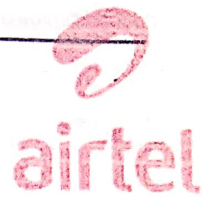
1. Establishment of one base station with 72 Hours observation and secondary control points at every 10km along the proposed route.
2. DGPS Survey for collection of ground coordinates along the OFC Cable trench at every 50m interval and/or at every turn/bend along the proposed trench. The DGPS data is collected at forest patches only.
3. Data processing and Interpretation
 - a. Geo-referencing of SOI Toposheet (1:50000), Forest Stock map (1:15000, if available) and satellite imagery
 - b. Creation of OFC Cable trench boundary vector map using the DGPS Surveyed data
 - c. Superimposition of cable route layer on Geo-referenced forest maps, SOI Toposheet and Satellite imagery.
 - d. Computation of Forest area proposed for diversion. It includes Reserved/Protected Forest & Revenue Forest.
 - e. Preparation of Geo-referenced forest map at 1:15000 scale, and SOI Toposheet at 1:50000 scale.
 - f. Preparation of DGPS survey report along with soft copy of maps in shapefile format and kml file
4. Printing of report and Geo-referenced maps and Technical compliance.



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3 Deliverables

The deliverables envisaged for the assignment are described below

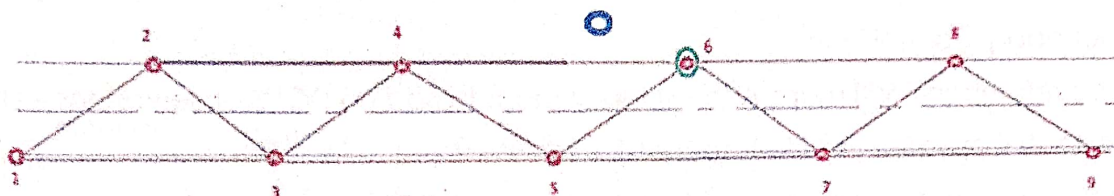
1. Post processed DGPS observations data as well as raw data in RINEX format.
2. DGPS Reports - Base line & network adjustment report for the primary and Secondary Control Points.
3. Geo-referenced SOI maps & forest block maps based on DGPS observations – Hard and Soft Copy (SHP and KML formats).
4. Proposed Forest Diversion area statement as per DGPS Survey
5. DGPS Survey and mapping report



4 Technical Approach (Brief Description)

4.1 GCP Establishment for (DGPS) Survey:

Example of defined Triangular Network GCP method.



-  Primary Control Point (PCP)
-  Secondary Control Point (SCP)
-  Temporary Bench Mark (TBM)

Primary Control Point: 72 Hours of DGPS observation for Post Processing the PCP data with IGS stations.

Secondary Control Point: 2 - 4 Hours of DGPS observation for Post Processing the SCP data with PCP Data.

Temporary Bench Mark: 1 Hour of DGPS observation for improving the spatial accuracy of the point cloud data.



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5 Control Points

Primary Control Point (Fixing of Base Station Point)

Details of Primary Control Points Used for Fixing of Base Station Point are given
Below

Primary Control Point (Fixing of Base Station Point)

Sr.No.	Point ID	UTM Coordinates		Geographical Coordinates		Height
		Easting (m)	Northing (m)	Latitude "N"	Longitude "E"	
1	P1	504909.999986	2454868.99988	22° 11' 56.871" N	81° 2' 51.485" E	752.856
2	P2	504704.000036	2454608.99996	22° 11' 48.417" N	81° 2' 44.287" E	757.428
3	P3	505078.999994	2454608.99996	22° 11' 48.413" N	81° 2' 57.384" E	765.962
4	P4	504922.99998	2454446.99991	22° 11' 43.146" N	81° 2' 51.934" E	760.171
5	P5	505203.000013	2454406.99993	22° 11' 41.842" N	81° 3' 1.713" E	773.277
6	P6	505263.000051	2453965.99995	22° 11' 27.499" N	81° 3' 3.803" E	764.133
7	P7	505165.000013	2454189.99994	22° 11' 34.785" N	81° 3' 0.383" E	759.256



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6 DGPS Survey Results

The total route length is approx. 20.125 km and the proposed forest area for diversion is 0.719 Ha. Forest Area Statement Report is in Annexure-1, and DGPS coordinates and forest patch boundary coordinates is in Annexure-2. The geo-referenced maps are in Annexure - 3.

6.1 Forest Area Statement (Annexure-1):

SCHEDULE OF FOREST LAND - RESERVE & PROTECTED FOREST									
KAWARDHA DIVISION (BHQRAMDEV WILDLIFE SANCTUARY) - FOREST AREA STATEMENT									
SPAN NAME	S.R. NO.	PATCH NUMBER	DIVISION	RANGE	VILLAGE NAME	COMPARTMENT	TYPE OF LAND	DIVERSION AREA (in HA)	Length (KM)
Kawardha-Bohla	1	Patch-1_1	Kawardha	Bohla	Bhaskar	111	Protected Forest	0.015	0.300
	2					112		0.137	1.550
	3					113		0.211	0.150
	4	Bohla			114	0.023		1.751	
	5				115	0.035		0.330	
	6				117	0.043		0.250	
	7	Patch-1_2		Bohla	116	Protected Forest	0.011	0.240	
	8				118	Reserved Forest	0.008	0.140	
	9				119	Protected Forest	0.024	0.550	
	10	Patch-1_3		Chalga	Chalga	120	Reserved Forest	0.015	0.190
	11					121		0.040	0.230
	12					TOTAL FOREST AREA			
Total Route Length (in KM)			Total Forest Patch Length (in KM)		OFC Cable Trench Width (in KM)		Total Forest Diversion Area (in HA)		
20.125			14.380		0.6025		0.719		
Summary Of Forest And Non Forest Area									
Protected Forest, Reserved Forest & Orange Area (in HA)				Revenue Forest Area (in HA)				Non Forest Area (in HA)	
0.719				0.005				0.287	

परिक्षेत्र अधिकारी भोरमदेव
भोरमदेव अभ्यारण्य कवचा

वन परिक्षेत्र अधिकारी
विष्णु, भोरमदेव अभ्यारण्य



Divisional Forest Officer
Kawardha, Division Kawardha

अधीक्षक
भोरमदेव अभ्यारण्य कवचा



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6.2 DGPS Surveyed coordinates of Forest Patches (Annexure-2):

DGPS Survey Points						
KAWARDHA_DIVISION_(BHORAMDEV WILDLIFE SANCTUARY)						
Sr.No.	Point ID	Patch No	UTM Coordinates		Geographical Coordinates	
			Easting(m)	Northing(m)	Latitude "N"	Longitude "E"
1	P1	Patch-1_1	504835.0721	2458793.828	22° 14' 4.522" N	81° 2' 48.910" E
2	P2		504829.9147	2458671.803	22° 14' 0.553" N	81° 2' 48.729" E
3	P3		504816.1299	2458586.718	22° 13' 57.786" N	81° 2' 48.246" E
4	P4		504804.7895	2458489.688	22° 13' 54.630" N	81° 2' 47.849" E
5	P5	Patch-1_2	504963.8955	2457291.876	22° 13' 15.671" N	81° 2' 53.394" E
6	P6		504971.791	2457142.122	22° 13' 10.801" N	81° 2' 53.668" E
7	P7		505026.5005	2457004.449	22° 13' 6.323" N	81° 2' 55.578" E
8	P8		505124.3185	2456891.311	22° 13' 2.642" N	81° 2' 58.993" E
9	P9		505265.4533	2456876.926	22° 13' 2.173" N	81° 3' 3.923" E
10	P10		505413.6166	2456873.168	22° 13' 2.049" N	81° 3' 9.098" E
11	P11		505533.5628	2456790.03	22° 12' 59.343" N	81° 3' 13.287" E
12	P12		505615.9336	2456664.699	22° 12' 55.266" N	81° 3' 16.163" E
13	P13		505702.2131	2456542.344	22° 12' 51.286" N	81° 3' 19.173" E
14	P14		505808.6123	2456437.704	22° 12' 47.881" N	81° 3' 22.890" E
15	P15		505860.2036	2456297.969	22° 12' 43.336" N	81° 3' 24.690" E
16	P16		505868.2795	2456148.539	22° 12' 38.476" N	81° 3' 24.970" E
17	P17		505874.5368	2456005.965	22° 12' 33.839" N	81° 3' 23.440" E
18	P18		505732.8596	2455888.062	22° 12' 30.006" N	81° 3' 20.237" E
19	P19		505630.1259	2455778.878	22° 12' 26.456" N	81° 3' 16.647" E
20	P20		505506.6898	2455695.221	22° 12' 23.737" N	81° 3' 12.335" E
21	P21		505377.7623	2455618.555	22° 12' 21.245" N	81° 3' 7.831" E
22	P22		505253.6653	2455534.317	22° 12' 18.506" N	81° 3' 3.495" E
23	P23		505132.6996	2455445.664	22° 12' 15.624" N	81° 2' 59.269" E
24	P24		505050.661	2455327.616	22° 12' 11.786" N	81° 2' 56.403" E
25	P25		505032.9287	2455203.986	22° 12' 7.765" N	81° 2' 55.782" E
26	P26		505003.2031	2454911.361	22° 11' 58.248" N	81° 2' 54.744" E
27	P27		505031.2437	2454767.601	22° 11' 53.572" N	81° 2' 55.718" E
28	P28		505123.2251	2454652.935	22° 11' 49.842" N	81° 2' 58.929" E
29	P29		505186.0114	2454516.918	22° 11' 45.417" N	81° 3' 1.121" E
30	P30		505225.0486	2454377.241	22° 11' 40.874" N	81° 3' 7.482" E
31	P31		505242.5407	2454228.724	22° 11' 36.044" N	81° 3' 3.092" E
32	P32		505270.3338	2454081.323	22° 11' 31.249" N	81° 3' 4.061" E
33	P33		505294.1522	2453933.351	22° 11' 26.437" N	81° 3' 4.891" E
34	P34		505274.965	2453784.92	22° 11' 21.609" N	81° 3' 4.219" E
35	P35		505332.363	2453649.235	22° 11' 17.196" N	81° 3' 6.222" E
36	P36		505395.2792	2453516.422	22° 11' 12.875" N	81° 3' 8.417" E
37	P37		505378.6651	2453372.273	22° 11' 8.187" N	81° 3' 7.835" E
38	P38		505282.3691	2453257.549	22° 11' 4.457" N	81° 3' 4.471" E
39	P39		505419.5553	2453121.466	22° 11' 0.032" N	81° 3' 2.275" E
	P40		505118.8228	2452992.167	22° 10' 55.827" N	81° 2' 59.804" E
	P41		505104.4919	2452856.057	22° 10' 51.401" N	81° 2' 58.255" E
	P42		505081.7792	2452717.943	22° 10' 46.909" N	81° 2' 57.460" E



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DGPS Survey Points

KAWARDHA_DIVISION_(BHORAMDEV WILDLIFE SANCTUARY)

Sr.No.	Point ID	Patch No	UTM Coordinates		Geographical Coordinates	
			Easting(m)	Northing(m)	Latitude "N"	Longitude "E"
43	P43	Patch-1_2	505103.7316	2452613.179	22° 10' 43.502" N	81° 2' 58.225" E
44	P44		505132.276	2452509.248	22° 10' 40.121" N	81° 2' 59.221" E
45	P45	Patch-1_3	505215.8265	2452172.625	22° 10' 29.172" N	81° 3' 2.135" E
46	P46		505277.2204	2452077.899	22° 10' 26.091" N	81° 3' 4.277" E
47	P47		505328.9307	2452036.769	22° 10' 24.752" N	81° 3' 6.083" E
48	P48		505387.8541	2451989.849	22° 10' 23.226" N	81° 3' 8.140" E
49	P49		507010.2446	2450031.913	22° 9' 19.525" N	81° 4' 4.762" E
50	P50		507127.5667	2450041.689	22° 9' 19.842" N	81° 4' 8.858" E
51	P51		507239.8418	2449992.928	22° 9' 18.254" N	81° 4' 12.777" E
52	P52		507318.4994	2449865.409	22° 9' 14.105" N	81° 4' 15.522" E
53	P53		507432.7445	2449883.073	22° 9' 14.678" N	81° 4' 19.511" E
54	P54		507559.8326	2449956.499	22° 9' 17.064" N	81° 4' 23.949" E
55	P55		507676.8717	2449869.954	22° 9' 14.248" N	81° 4' 28.034" E
56	P56		507801.7993	2449824.828	22° 9' 12.778" N	81° 4' 32.395" E
57	P57		507896.9791	2449715.253	22° 9' 9.213" N	81° 4' 35.716" E
58	P58		508000.4944	2449612.366	22° 9' 5.865" N	81° 4' 39.329" E
59	P59		508146.8552	2449609.404	22° 9' 5.766" N	81° 4' 44.438" E
60	P60		508277.5999	2449547.027	22° 9' 3.735" N	81° 4' 49.002" E
61	P61		508284.8758	2449405.955	22° 8' 59.147" N	81° 4' 49.264" E
62	P62		508366.6647	2449296.706	22° 8' 55.592" N	81° 4' 52.107" E
63	P63		508320.8983	2449156.446	22° 8' 51.031" N	81° 4' 50.507" E
64	P64		508351.0244	2449042.393	22° 8' 47.321" N	81° 4' 51.556" E
65	P65		508360.3938	2448900.215	22° 8' 42.697" N	81° 4' 51.881" E
66	P66		508412.3601	2448781.249	22° 8' 38.826" N	81° 4' 53.693" E
67	P67		508525.1971	2448722.173	22° 8' 36.903" N	81° 4' 57.631" E
68	P68		508548.4308	2448618.175	22° 8' 33.520" N	81° 4' 58.440" E
69	P69		508655.275	2448711.272	22° 8' 36.546" N	81° 5' 2.172" E
70	P70		508790.4245	2448754.129	22° 8' 37.938" N	81° 5' 6.891" E
71	P71		508938.0472	2448730.403	22° 8' 37.163" N	81° 5' 12.045" E
72	P72		509075.1633	2448687.415	22° 8' 35.763" N	81° 5' 16.831" E
73	P73		509133.9559	2448679.33	22° 8' 35.499" N	81° 5' 18.883" E
74	P74		509147.8946	2448811.269	22° 8' 39.789" N	81° 5' 19.372" E
75	P75		509239.8218	2448849.941	22° 8' 41.045" N	81° 5' 22.583" E
76	P76		509351.6749	2448871.114	22° 8' 41.732" N	81° 5' 26.488" E
77	P77		509489.0208	2448912.425	22° 8' 43.073" N	81° 5' 31.284" E
78	P78		509610.6199	2448975.375	22° 8' 45.118" N	81° 5' 35.531" E
79	P79		509711.797	2448958.358	22° 8' 44.562" N	81° 5' 39.063" E
80	P80		509820.7683	2448964.398	22° 8' 44.757" N	81° 5' 42.867" E
81	P81		509839.1671	2449074.368	22° 8' 48.333" N	81° 5' 43.519" E
82	P82		509967.7677	2449151.141	22° 8' 50.827" N	81° 5' 48.003" E
83	P83		510105.7406	2449201.036	22° 8' 52.447" N	81° 5' 52.822" E
	P84		510216.7802	2449110.278	22° 8' 49.493" N	81° 5' 56.690" E



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TeleSonic Networks Ltd.
3rd Floor, Metro Towers, Near
Vijay Mahal, Gurgaon, Haryana
No-5

DGPS Survey Points

KAWARDHA_DIVISION_(BHARAMDEV WILDLIFE SANCTUARY)

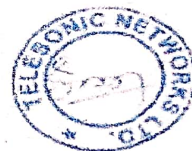
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			Easting(m)	Northing(m)	Latitude "N"	Longitude "E"
85	P85	Patch-1_4	510186.0713	2449171.616	22° 8' 51.488" N	81° 5' 55.625" E
86	P86		510176.8135	2449233.166	22° 8' 53.491" N	81° 5' 55.304" E
87	P87		510297.4296	2449182.054	22° 8' 51.855" N	81° 5' 59.514" E
88	P88		510259.0146	2449325.996	22° 8' 56.508" N	81° 5' 58.176" E
89	P89		510337.05	2449444.609	22° 9' 0.364" N	81° 6' 0.903" E
90	P90		510454.2665	2449398.557	22° 8' 58.864" N	81° 6' 5.343" E
91	P91		510472.7983	2449513.261	22° 9' 2.594" N	81° 6' 5.644" E
92	P92		510520.7205	2449634.091	22° 9' 7.173" N	81° 6' 7.320" E
93	P93		510650.9837	2449623.01	22° 9' 6.159" N	81° 6' 11.868" E
94	P94		510770.8701	2449613.628	22° 9' 5.852" N	81° 6' 16.053" E
95	P95		510895.2703	2449582.402	22° 9' 4.833" N	81° 6' 20.396" E
96	P96		511007.2816	2449482.7	22° 9' 1.588" N	81° 6' 24.304" E
97	P97		511150.1279	2449453.384	22° 9' 0.631" N	81° 6' 29.290" E
98	P98		511298.1581	2449476.555	22° 9' 1.381" N	81° 6' 34.459" E
99	P99		511438.6743	2449525.611	22° 9' 2.974" N	81° 6' 39.366" E
100	P100		511555.8978	2449618.501	22° 9' 5.992" N	81° 6' 43.462" E
101	P101		511619.8803	2449751.735	22° 9' 10.324" N	81° 6' 45.699" E
102	P102		511647.4779	2449899.161	22° 9' 15.118" N	81° 6' 46.666" E
103	P103		511685.6605	2450002.53	22° 9' 18.479" N	81° 6' 48.002" E

परिक्षेत्र अधिकारी भोरमदेव
भोरमदेव अभयारण्य, कानपुर

वन परिक्षेत्र अधिकारी
दिल्ली, भोरमदेव अभयारण्य

Divisional Forest Officer
Kandauli, Division Kawardha

अधीक्षक
भोरमदेव अभयारण्य, कानपुर



6.3 DGPS Surveyed coordinates of Forest Patches (Annexure-2):

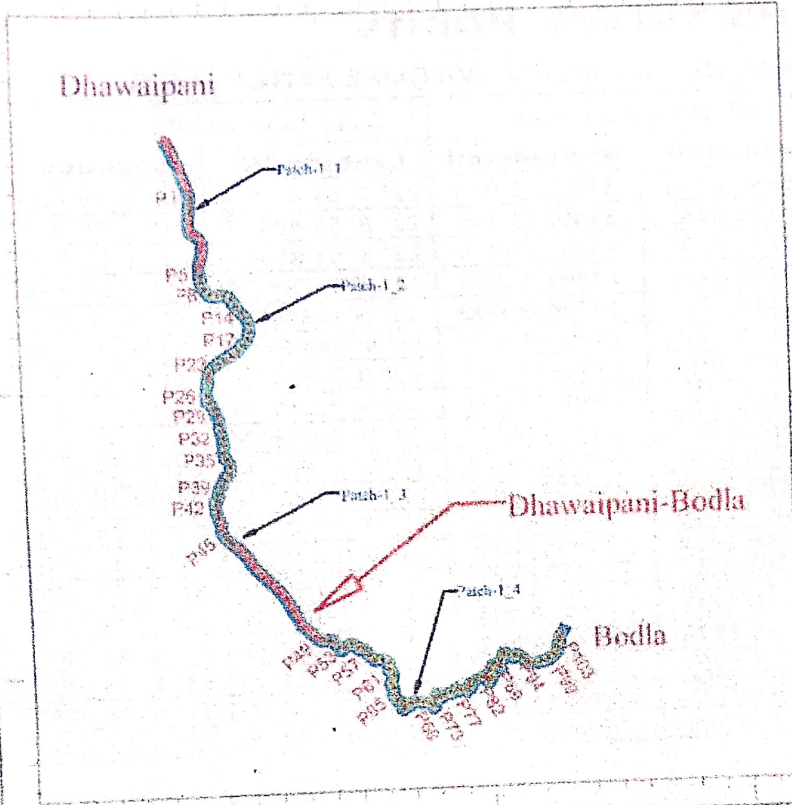


DGPS Survey Report – (CG) SKY Project

Telesonic Networks Ltd.

3rd F
Vijay
No-5

MAP SHOWING DGPS POINTS ON PROPOSED ROUTE FOR LAYING OF OFC CABLE WITHIN NH,SH,PWD & PMGSY ROAD CORRIDOR FOR (BHORAMDEV WILDLIFE SANCTUARY (KAWARDHA DIVISION) OF CHHATTISGARH



DGPS Survey Points

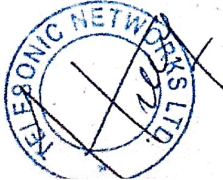
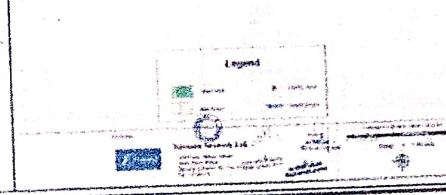
Point No.	Stationing	Latitude	Longitude	Height	Remarks
P1	0+00	18.1234	81.5678	120.5	Start of Route
P2	0+10	18.1235	81.5679	120.5	
P3	0+20	18.1236	81.5680	120.5	
P4	0+30	18.1237	81.5681	120.5	
P5	0+40	18.1238	81.5682	120.5	
P6	0+50	18.1239	81.5683	120.5	
P7	0+60	18.1240	81.5684	120.5	
P8	0+70	18.1241	81.5685	120.5	
P9	0+80	18.1242	81.5686	120.5	
P10	0+90	18.1243	81.5687	120.5	
P11	1+00	18.1244	81.5688	120.5	
P12	1+10	18.1245	81.5689	120.5	
P13	1+20	18.1246	81.5690	120.5	
P14	1+30	18.1247	81.5691	120.5	
P15	1+40	18.1248	81.5692	120.5	
P16	1+50	18.1249	81.5693	120.5	
P17	1+60	18.1250	81.5694	120.5	
P18	1+70	18.1251	81.5695	120.5	
P19	1+80	18.1252	81.5696	120.5	
P20	1+90	18.1253	81.5697	120.5	
P21	2+00	18.1254	81.5698	120.5	
P22	2+10	18.1255	81.5699	120.5	
P23	2+20	18.1256	81.5700	120.5	
P24	2+30	18.1257	81.5701	120.5	
P25	2+40	18.1258	81.5702	120.5	
P26	2+50	18.1259	81.5703	120.5	
P27	2+60	18.1260	81.5704	120.5	
P28	2+70	18.1261	81.5705	120.5	
P29	2+80	18.1262	81.5706	120.5	
P30	2+90	18.1263	81.5707	120.5	
P31	3+00	18.1264	81.5708	120.5	
P32	3+10	18.1265	81.5709	120.5	
P33	3+20	18.1266	81.5710	120.5	
P34	3+30	18.1267	81.5711	120.5	
P35	3+40	18.1268	81.5712	120.5	
P36	3+50	18.1269	81.5713	120.5	
P37	3+60	18.1270	81.5714	120.5	
P38	3+70	18.1271	81.5715	120.5	
P39	3+80	18.1272	81.5716	120.5	
P40	3+90	18.1273	81.5717	120.5	
P41	4+00	18.1274	81.5718	120.5	
P42	4+10	18.1275	81.5719	120.5	
P43	4+20	18.1276	81.5720	120.5	
P44	4+30	18.1277	81.5721	120.5	
P45	4+40	18.1278	81.5722	120.5	

SCHEDULE OF FOREST LAND - RESERVE & PROTECTED FOREST

Sl. No.	Area Name	Area Type	Area Size (Ha)	Area Status	Area Remarks
1	Forest Land	Forest Land	100.00	Forest Land	Forest Land
2	Reserve Forest	Reserve Forest	50.00	Reserve Forest	Reserve Forest
3	Protected Forest	Protected Forest	25.00	Protected Forest	Protected Forest
4	Other Forest	Other Forest	12.50	Other Forest	Other Forest
5	Non-Forest	Non-Forest	12.50	Non-Forest	Non-Forest
6	Water Body	Water Body	12.50	Water Body	Water Body
7	Barren Land	Barren Land	12.50	Barren Land	Barren Land
8	Settlement	Settlement	12.50	Settlement	Settlement
9	Other Land	Other Land	12.50	Other Land	Other Land
10	Total	Total	250.00	Total	Total

Summary of Forest Land - Reserve & Protected Forest

Sl. No.	Area Name	Area Type	Area Size (Ha)	Area Status	Area Remarks
1	Forest Land	Forest Land	100.00	Forest Land	Forest Land
2	Reserve Forest	Reserve Forest	50.00	Reserve Forest	Reserve Forest
3	Protected Forest	Protected Forest	25.00	Protected Forest	Protected Forest
4	Other Forest	Other Forest	12.50	Other Forest	Other Forest
5	Non-Forest	Non-Forest	12.50	Non-Forest	Non-Forest
6	Water Body	Water Body	12.50	Water Body	Water Body
7	Barren Land	Barren Land	12.50	Barren Land	Barren Land
8	Settlement	Settlement	12.50	Settlement	Settlement
9	Other Land	Other Land	12.50	Other Land	Other Land
10	Total	Total	250.00	Total	Total



रायपुर, दिनांक :

प्रति,

श्रीमान् कलेक्टर महोदय,
कलेक्टोरेट परिसर कबीरधाम,
जिला - कबीरधाम, (छत्तीसगढ़).

विषय : कवर्धा डिवीजन अंतर्गत वनभूमि सडक समानांतर 4 जी टेलीकॉम सुविधा प्रदान करने हेतु
आप्टिकल फायबर केबल बिछाने बाबत प्रभावित वन भूमि एवं संरक्षित वन भूमि के गैर वानिकी
प्रयोजन हेतु वन संरक्षण अधिनियम 1980 अन्तर्गत व्यपवर्तन हेतु FRA निर्धारित प्रपत्र "स" में
प्रदान करने विषयक ।

संदर्भ : 1) कार्यालय चिप्स, एसडीसी बिल्डिंग, सिविल लाईन्स रायपुर का पत्र
क्रमांक / 737/CEO/Chips/SKY/ दिनांक 16.04.2018 ।

2) छत्तीसगढ़ शासन, इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी विभाग, मंत्रालय, महानदी भवन, नया
रायपुर का आदेश क्रमांक-3-11/2018/56/इसूप्रौ दिनांक 11.05.2018 ।

महोदय,

उपरोक्त विषयान्तर्गत अवगत हों कि संदर्भित पत्र क्रमांक-1 द्वारा कार्यालय चिप्स रायपुर द्वारा
छत्तीसगढ़ संचार क्रांति योजना के तहत मेसर्स टेलीसोनिक नेटवर्क्स प्रायवेट लिमिटेड को "कार्यान्वयन
सहभागी" बनाया गया है तथा छत्तीसगढ़ शासन इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी विभाग, मंत्रालय,
महानदी भवन, नया रायपुर द्वारा संदर्भित पत्र क्रमांक-2 एवं अधिसूचना क्रमांक/एफ-4/54/2014
/56/इसूप्रौ दिनांक 26.06.2015 के माध्यम से समस्त जिलों में कार्य सम्पादन हेतु राईट-ऑफ-वे की
निःशुल्क अनुमति प्रदान की गई है ।

संदर्भित पत्र क्रमांक-2 के माध्यम से छत्तीसगढ़ शासन, इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी
विभाग, मंत्रालय, महानदी भवन, नया रायपुर द्वारा उल्लेखित प्रावधानों के अन्तर्गत "छत्तीसगढ़ संचार
क्रांति योजना (स्काई योजना)" के तहत अनुमति प्रदान की गई है ।

आपके जिले के क्षेत्रान्तर्गत कवर्धा डिवीजन अंतर्गत वनभूमि सडक समानांतर आप्टिकल फायबर
केबल बिछाने का कार्य प्रस्तावित है तथा इस मार्ग में निम्नांकित वन भूमि शामिल है :-

प्रभावित वन भूमि का कक्ष अनुसार विवरण

क्रमांक	मार्ग	वन संभाग	वन परिक्षेत्र	ग्राम का नाम	कक्ष क्रमांक	जायवर्सन एरिया (हेक्टर में)
1	धवईपानी-बोडला	कवर्धा	चित्पी	राजधर	324	0.015
2				दुलदुला	326	0.133
3					151	0.013
4					325	0.088
5					327	0.015
6					56	0.043
7					328	0.013
8			भोरमदेव	बंजारी	72	0.008
9			चित्पी	चित्पी	328	0.028
10				बंजारी	59	0.015
11				चित्पी		0.348
संरक्षित वनए आरक्षित वन कुल योग						0.719

शासन के निर्देशानुसार एवं वन विभाग के गार्ड लाईन के अनुसार FRA निर्धारित प्रपत्र "स" में संबंधित कलेक्टर द्वारा लिया जाना आवश्यक है। अतएव आपके अधिकार क्षेत्रान्तर्गत राष्ट्रीय राजमार्ग में शामिल वन भूमि पर ग्राम पंचायत की अनापत्ति प्रपत्र "ब" संलग्न है।

अतः महानुभाव से अनुरोध है कि कृपया उक्त मार्ग में सम्मिलित वन भूमि/संरक्षित वन भूमि के गैर वानिकी प्रयोजन हेतु वन संरक्षण अधिनियम 1980 अन्तर्गत व्यवर्तन FRA निर्धारित प्रपत्र "स" में प्रदान करने का कष्ट करें।

संलग्न :- उपरोक्तानुसार।

देवेन्द्र अरोड़ा
टेलीसोनिक नेटवर्क्स प्रायवेट लिमिटेड
इंदौर (मध्य प्रदेश)

रायपुर, दिनांक :

प्रति,

श्रीमान् कलेक्टर महोदय,
कलेक्टोरेट परिसर कबीरधाम,
जिला - कबीरधाम, (छत्तीसगढ़).

विषय : कवर्धा डिवीजन अंतर्गत राजस्व वनभूमि सडक समानांतर 4 जी टेलीकॉम सुविधा प्रदान करने हेतु ऑप्टिकल फायबर केबल बिछाने बाबत प्रभावित राजस्व वन भूमि के गैर वानिकी प्रयोजन हेतु वन संरक्षण अधिनियम 1980 अन्तर्गत व्यपवर्तन हेतु राजस्व वन भूमि की अनापत्ति प्रमाण पत्र प्रदान करने विषयक ।

संदर्भ : 1) कार्यालय चिप्स, एसडीसी बिल्डिंग, सिविल लाईन्स रायपुर का पत्र
क्रमांक/737/CEO/Chips/SKY/ दिनांक 16.04.2018 ।

2) छत्तीसगढ़ शासन, इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी विभाग, मंत्रालय, महानदी भवन, नया रायपुर का आदेश क्रमांक-3-11/2018/56/इसूप्रौ दिनांक 11.05.2018 ।

महोदय,

उपरोक्त विषयान्तर्गत अवगत हों कि संदर्भित पत्र क्रमांक-1 द्वारा कार्यालय चिप्स रायपुर द्वारा छत्तीसगढ़ संचार क्रांति योजना के तहत मेसर्स टेलीसोनिक नेटवर्क्स प्रायवेट लिमिटेड को "कार्यान्वयन सहभागी" बनाया गया है तथा छत्तीसगढ़ शासन इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी विभाग, मंत्रालय, महानदी भवन, नया रायपुर द्वारा संदर्भित पत्र क्रमांक-2 एवं अधिसूचना क्रमांक/एफ-4/54/2014/56/इसूप्रौ दिनांक 26.06.2015 के माध्यम से समस्त जिलों में कार्य सम्पादन हेतु राईट-ऑफ-वे की निःशुल्क अनुमति प्रदान की गई है ।

संदर्भित पत्र क्रमांक-2 के माध्यम से छत्तीसगढ़ शासन, इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी विभाग, मंत्रालय, महानदी भवन, नया रायपुर द्वारा उल्लेखित प्रावधानों के अन्तर्गत "छत्तीसगढ़ संचार क्रांति योजना (स्काई योजना)" के तहत अनुमति प्रदान की गई है ।

आपके जिले के क्षेत्रान्तर्गत कवर्धा डिवीजन अंतर्गत राजस्व वनभूमि सडक समानांतर ऑप्टिकल फायबर केबल बिछाने का कार्य प्रस्तावित है तथा इस मार्ग में निम्नांकित राजस्व वन भूमि शामिल है :-

प्रत्यावर्तन हेतु प्रत्यावित राजस्व वन भूमि का विवरण नम्नानुसार है :-

क्रमांक	मार्ग	जिला का नाम	तहसील का नाम	ग्राम का नाम	खसरा क्रमांक	डायवर्सन एरिया (हेक्टर में)
1	निरंक					0
राजस्व निरंक						0.000

शासन के निर्देशानुसार एवं वन विभाग के गाईड लाईन के अनुसार राजस्व वन भूमि की अनापत्ति प्रमाण पत्र संबंधित कलेक्टर से लिया जाना आवश्यक है। अतएव आपके अधिकार क्षेत्रान्तर्गत राष्ट्रीय राजमार्ग में शामिल वन परिक्षेत्र का खसरा व नक्शा व पी-2 संलग्न है।

अतः महानुभाव से अनुरोध है कि कृपया उक्त मार्ग में सम्मिलित राजस्व वन भूमि के गैर वानिकी प्रयोजन हेतु वन संरक्षण अधिनियम 1980 अन्तर्गत व्यपवर्तन हेतु राजस्व वन भूमि की अनापत्ति प्रमाण पत्र प्रदान करने का कष्ट करें।

संलग्न :- उपरोक्तानुसार।

देवेन्द्र अरोड़ा
टेलीसोनिक नेटवर्क प्रायवेट लिमिटेड
इंदौर (मध्य प्रदेश)

SCHEDULE OF FOREST LAND - RESERVE & PROTECTED FOREST										
KAWARDHA_DIVISION_(BHORAMDEV WILDLIFE SANCTUARY) - FOREST AREA STATEMENT										
SPAN NAME	SR. NO.	PATCH NUMBER	DIVISION	RANGE	VILLAGE NAME	COMPARTMENT	TYPE OF LAND	DIVERSION AREA (in HA)	LENGTH (KM)	
Dhawaipani-Bodla	1	Patch-1_1	Kawardha	Chilphi	Rajadhar	324	Protected Forest	0.015	0.300	
	2	Patch-1_2			Duldula	326		0.133	2.660	
	3					151		0.013	0.260	
	4					325		0.088	1.760	
	5					327		0.015	0.300	
	6					56	Reserved Forest	0.043	0.860	
	7	328				Protected Forest	0.013	0.260		
	8	Patch-1_3		Bhoramdev	Banjari	72	Reserved Forest	0.008	0.160	
	9			Chilphi	Chilphi	328	Protected Forest	0.028	0.560	
	10				Banjari		0.015	0.300		
	11				Chilphi	59	Reserved Forest	0.348	6.960	
TOTAL FOREST AREA								0.719	14.380	
Total Route Length (in KM)				Total Forest Patch Length (in KM)		OFC Cable Trench Width (in KM)		Total Forest Diversion Area (in HA)		
20.125				14.380		0.0005		0.719		
Summary Of Forest And Non Forest Area										
Protected Forest, Reserved Forest & Orange Area (in HA)				Revenue Forest Area (in HA)			Non Forest Area (in HA)			
0.719				0.000			0.287			

परिक्षेत्र अधिकारी भोरमदेव
भोरमदेव अभ्यारण्य कवर्धा

वन परिक्षेत्र अधिकारी
घिल्फी, भोरमदेव अभ्यारण्य

Divisional Forest Officer
Kawardha, Division Kawardha

अधीक्षक
भोरमदेव अभ्यारण्य, कवर्धा



DGPS Survey Points

KAWARDHA_DIVISION_(BHARAMDEV WILDLIFE SANCTUARY)

Sr.No.	Point ID	Patch No	UTM Coordinates		Geographical Coordinates	
			Easting(m)	Northing(m)	Latitude "N"	Longitude "E"
1	P1	Patch-1_1	504835.0721	2458793.828	22° 14' 4.522" N	81° 2' 48.910" E
2	P2		504829.9147	2458671.803	22° 14' 0.553" N	81° 2' 48.729" E
3	P3		504816.1299	2458586.718	22° 13' 57.786" N	81° 2' 48.246" E
4	P4		504804.7895	2458489.688	22° 13' 54.630" N	81° 2' 47.849" E
5	P5	Patch-1_2	504963.8955	2457291.876	22° 13' 15.671" N	81° 2' 53.394" E
6	P6		504971.791	2457142.122	22° 13' 10.801" N	81° 2' 53.668" E
7	P7		505026.5005	2457004.449	22° 13' 6.323" N	81° 2' 55.578" E
8	P8		505124.3185	2456891.311	22° 13' 2.642" N	81° 2' 58.993" E
9	P9		505265.4533	2456876.926	22° 13' 2.173" N	81° 3' 3.923" E
10	P10		505413.6166	2456873.168	22° 13' 2.049" N	81° 3' 9.098" E
11	P11		505533.5628	2456790.03	22° 12' 59.343" N	81° 3' 13.287" E
12	P12		505615.9336	2456664.699	22° 12' 55.266" N	81° 3' 16.163" E
13	P13		505702.2131	2456542.344	22° 12' 51.286" N	81° 3' 19.175" E
14	P14		505808.6123	2456437.704	22° 12' 47.881" N	81° 3' 22.890" E
15	P15		505860.2036	2456297.969	22° 12' 43.336" N	81° 3' 24.690" E
16	P16		505868.2795	2456148.539	22° 12' 38.476" N	81° 3' 24.970" E
17	P17		505824.5368	2456005.965	22° 12' 33.839" N	81° 3' 23.440" E
18	P18		505732.8596	2455888.062	22° 12' 30.006" N	81° 3' 20.237" E
19	P19		505630.1259	2455778.878	22° 12' 26.456" N	81° 3' 16.647" E
20	P20		505506.6898	2455695.221	22° 12' 23.737" N	81° 3' 12.335" E
21	P21		505377.7623	2455618.555	22° 12' 21.245" N	81° 3' 7.831" E
22	P22		505253.6653	2455534.317	22° 12' 18.506" N	81° 3' 3.495" E
23	P23		505132.6996	2455445.664	22° 12' 15.624" N	81° 2' 59.269" E
24	P24		505050.661	2455327.616	22° 12' 11.786" N	81° 2' 56.403" E
25	P25		505032.9287	2455203.986	22° 12' 7.765" N	81° 2' 55.782" E
26	P26		505003.2931	2454911.361	22° 11' 58.248" N	81° 2' 54.744" E
27	P27		505031.2437	2454767.601	22° 11' 53.572" N	81° 2' 55.718" E
28	P28		505123.2251	2454652.935	22° 11' 49.842" N	81° 2' 58.929" E
29	P29		505186.0114	2454516.918	22° 11' 45.417" N	81° 3' 1.121" E
30	P30		505225.0486	2454377.241	22° 11' 40.874" N	81° 3' 2.482" E
31	P31		505242.5407	2454228.724	22° 11' 36.044" N	81° 3' 3.092" E
32	P32		505270.3338	2454081.323	22° 11' 31.249" N	81° 3' 4.061" E
33	P33		505294.1522	2453933.351	22° 11' 26.437" N	81° 3' 4.891" E
34	P34		505274.965	2453784.92	22° 11' 21.609" N	81° 3' 4.219" E
35	P35		505332.363	2453649.235	22° 11' 17.196" N	81° 3' 6.222" E
36	P36		505395.2792	2453516.422	22° 11' 12.875" N	81° 3' 8.417" E
37	P37		505378.6651	2453372.273	22° 11' 8.187" N	81° 3' 7.835" E
38	P38		505282.3691	2453257.549	22° 11' 4.457" N	81° 3' 4.471" E
39	P39		505219.5553	2453121.466	22° 11' 0.032" N	81° 3' 2.276" E
40	P40		505148.8228	2452992.167	22° 10' 55.827" N	81° 2' 59.804" E
41	P41		505104.4919	2452856.057	22° 10' 51.401" N	81° 2' 58.255" E
42	P42		505081.7792	2452717.943	22° 10' 46.909" N	81° 2' 57.460" E

DGPS Survey Points

KAWARDHA_DIVISION_(BHARAMDEV WILDLIFE SANCTUARY)

Sr.No.	Point ID	Patch No	UTM Coordinates		Geographical Coordinates	
			Easting(m)	Northing(m)	Latitude "N"	Longitude "E"
43	P43	Patch-1_2	505103.7316	2452613.179	22° 10' 43.502" N	81° 2' 58.225" E
44	P44		505132.276	2452509.248	22° 10' 40.121" N	81° 2' 59.221" E
45	P45	Patch-1_3	505215.8265	2452172.625	22° 10' 29.172" N	81° 3' 2.135" E
46	P46		505277.2204	2452077.899	22° 10' 26.091" N	81° 3' 4.277" E
47	P47		505328.9307	2452036.769	22° 10' 24.752" N	81° 3' 6.083" E
48	P48		505387.8541	2451989.849	22° 10' 23.226" N	81° 3' 8.140" E
49	P49		507010.2446	2450031.913	22° 9' 19.525" N	81° 4' 4.762" E
50	P50		507127.5667	2450041.689	22° 9' 19.842" N	81° 4' 8.858" E
51	P51		507239.8418	2449992.928	22° 9' 18.254" N	81° 4' 12.777" E
52	P52		507318.4994	2449865.409	22° 9' 14.105" N	81° 4' 15.522" E
53	P53		507432.7445	2449883.073	22° 9' 14.678" N	81° 4' 19.511" E
54	P54		507559.8326	2449956.499	22° 9' 17.064" N	81° 4' 23.949" E
55	P55		507676.8717	2449869.954	22° 9' 14.248" N	81° 4' 28.034" E
56	P56		507801.7993	2449824.828	22° 9' 12.778" N	81° 4' 32.395" E
57	P57		507896.9791	2449715.253	22° 9' 9.213" N	81° 4' 35.716" E
58	P58		508000.4944	2449612.366	22° 9' 5.865" N	81° 4' 39.329" E
59	P59		508146.8552	2449609.404	22° 9' 5.766" N	81° 4' 44.438" E
60	P60		508277.5999	2449547.027	22° 9' 3.735" N	81° 4' 49.002" E
61	P61		508284.8758	2449405.955	22° 8' 59.147" N	81° 4' 49.254" E
62	P62		508366.6647	2449296.706	22° 8' 55.592" N	81° 4' 52.107" E
63	P63		508320.8983	2449156.446	22° 8' 51.031" N	81° 4' 50.507" E
64	P64		508351.0244	2449042.393	22° 8' 47.321" N	81° 4' 51.556" E
65	P65		508360.3938	2448900.215	22° 8' 42.697" N	81° 4' 51.881" E
66	P66		508412.3601	2448781.249	22° 8' 38.826" N	81° 4' 53.693" E
67	P67		508525.1971	2448722.173	22° 8' 36.903" N	81° 4' 57.631" E
68	P68		508548.4308	2448618.175	22° 8' 33.520" N	81° 4' 58.440" E
69	P69		508655.275	2448711.272	22° 8' 36.546" N	81° 5' 2.172" E
70	P70		508790.4245	2448754.129	22° 8' 37.938" N	81° 5' 6.891" E
71	P71		508938.0472	2448730.403	22° 8' 37.163" N	81° 5' 12.045" E
72	P72		509075.1633	2448687.415	22° 8' 35.763" N	81° 5' 16.831" E
73	P73		509133.9559	2448679.33	22° 8' 35.499" N	81° 5' 18.883" E
74	P74		509147.8946	2448811.269	22° 8' 39.789" N	81° 5' 19.372" E
75	P75		509239.8218	2448849.941	22° 8' 41.045" N	81° 5' 22.583" E
76	P76		509351.6749	2448871.114	22° 8' 41.732" N	81° 5' 26.488" E
77	P77		509489.0208	2448912.425	22° 8' 43.073" N	81° 5' 31.284" E
78	P78		509610.6199	2448975.375	22° 8' 45.118" N	81° 5' 35.531" E
79	P79		509711.797	2448958.358	22° 8' 44.562" N	81° 5' 39.063" E
80	P80		509820.7683	2448964.398	22° 8' 44.757" N	81° 5' 42.867" E
81	P81		509839.3671	2449074.368	22° 8' 48.333" N	81° 5' 43.519" E
82	P82		509967.7677	2449151.141	22° 8' 50.827" N	81° 5' 48.003" E
83	P83		510105.7406	2449201.036	22° 8' 52.447" N	81° 5' 52.822" E
84	P84		510216.7802	2449110.278	22° 8' 49.493" N	81° 5' 56.696" E

DGPS Survey Points

KAWARDHA_DIVISION_(BHORAMDEV WILDLIFE SANCTUARY)

Sr.No.	Point ID	Patch No	UTM Coordinates		Geographical Coordinates	
			Easting(m)	Northing(m)	Latitude "N"	Longitude "E"
85	P85	Patch-1_4	510186.0713	2449171.616	22° 8' 51.488" N	81° 5' 55.625" E
86	P86		510176.8135	2449233.166	22° 8' 53.491" N	81° 5' 55.304" E
87	P87		510297.4296	2449182.954	22° 8' 51.855" N	81° 5' 59.514" E
88	P88		510259.0146	2449325.996	22° 8' 56.508" N	81° 5' 58.176" E
89	P89		510337.05	2449444.609	22° 9' 0.364" N	81° 6' 0.903" E
90	P90		510464.2665	2449398.557	22° 8' 58.864" N	81° 6' 5.343" E
91	P91		510472.7983	2449513.261	22° 9' 2.594" N	81° 6' 5.644" E
92	P92		510520.7205	2449654.091	22° 9' 7.173" N	81° 6' 7.320" E
93	P93		510650.9837	2449623.01	22° 9' 6.159" N	81° 6' 11.868" E
94	P94		510770.8701	2449613.628	22° 9' 5.852" N	81° 6' 16.053" E
95	P95		510895.2703	2449582.402	22° 9' 4.833" N	81° 6' 20.396" E
96	P96		511007.2816	2449482.7	22° 9' 1.588" N	81° 6' 24.304" E
97	P97		511150.1279	2449453.384	22° 9' 0.631" N	81° 6' 29.290" E
98	P98		511298.1581	2449476.555	22° 9' 1.381" N	81° 6' 34.459" E
99	P99		511438.6743	2449525.611	22° 9' 2.974" N	81° 6' 39.366" E
100	P100		511555.8978	2449618.501	22° 9' 5.992" N	81° 6' 43.462" E
101	P101		511619.8803	2449751.735	22° 9' 10.324" N	81° 6' 45.699" E
102	P102		511647.4779	2449899.161	22° 9' 15.118" N	81° 6' 46.666" E
103	P103		511685.6605	2450002.53	22° 9' 18.479" N	81° 6' 48.002" E

परिक्षेत्र अधिकारी भोरमदेव
भोरमदेव अभ्यारण्य कवर्धा

Divisional Forest Officer
Kawardha, Division Kawardha

वन परिक्षेत्र अधिकारी
चिल्फी, भोरमदेव अभ्यारण्य

अधीक्षक
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