

Telesonic Networks Ltd.
3rd Floor, Metro Towers, Near
Vijay Nagar Square Scheme
No-54, 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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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



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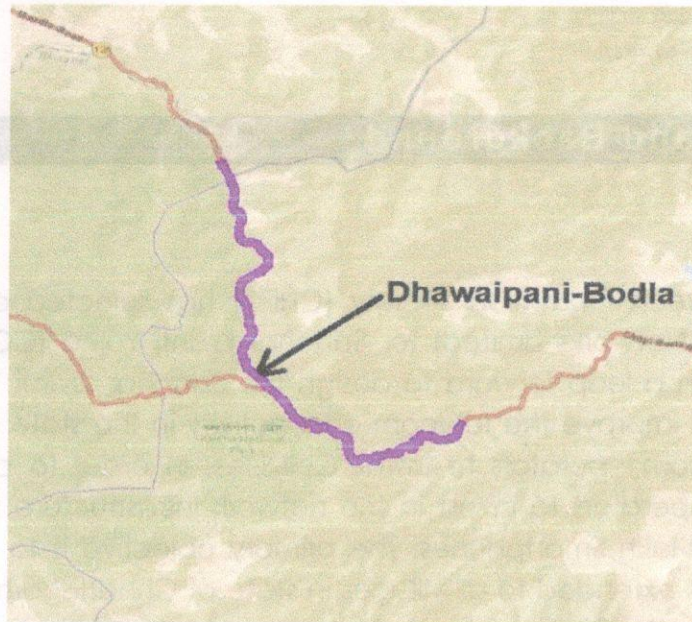


Fig-1: OFC Cable Proposed Routes on Online Map in Kawardha Division.

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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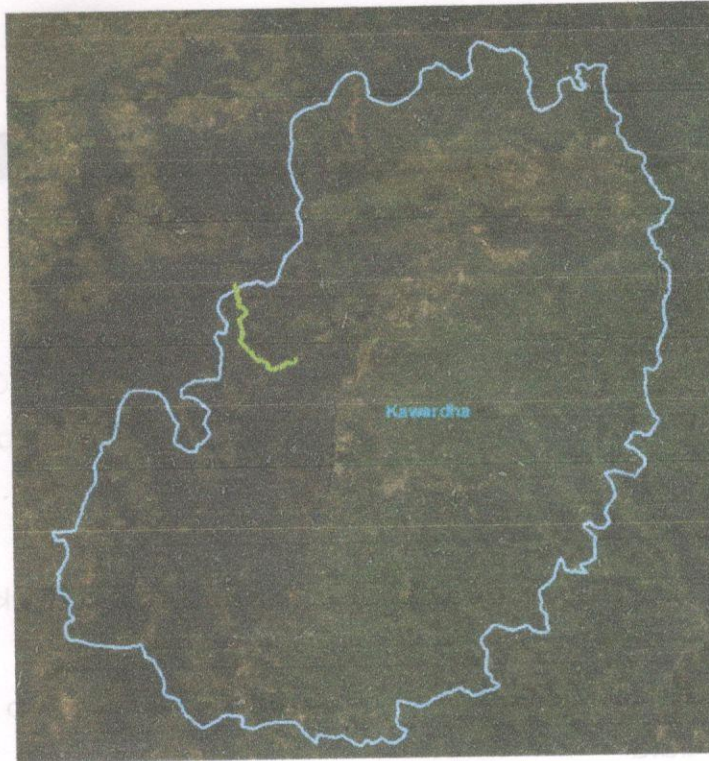


Fig-2: OFC Cable Proposed Routes on Satellite Imagery in Kawardha Division.



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.

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

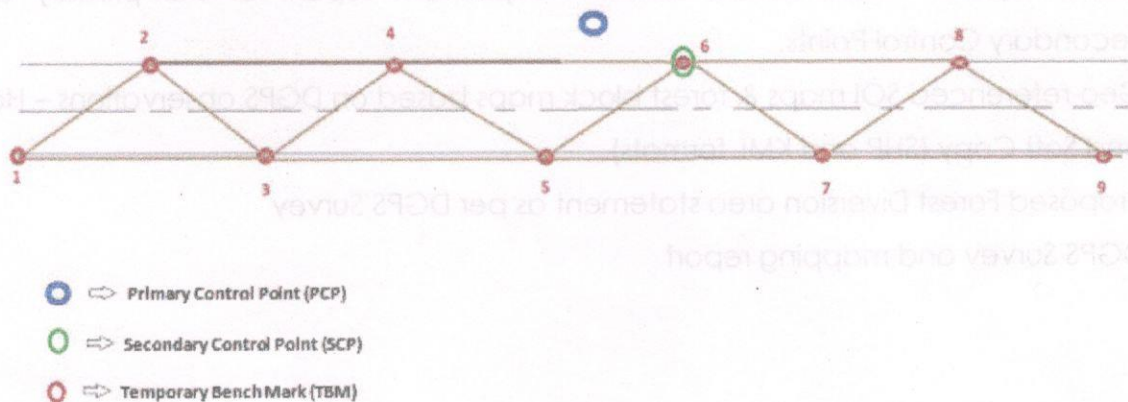
1. Post processed DGPS observations data as well as raw data in RINEX format.
2. DGPS Reports - Base line & network adjustment report for the primary and Secondary Control Points.
3. Geo-referenced SOI maps & forest block maps based on DGPS observations – Hard and Soft Copy (SHP and KML formats).
4.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





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



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 (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)	
Dhawalpuri-Bodla	1	Patch-1.1	Kawardha	Chilpi	Bodhar	324	Protected Forest	0.015	0.300	
	2					326		0.133	2.500	
	3					151		0.013	0.250	
	4	Dulaula			325	0.088		1.750		
	5				327	0.015	0.300			
	6				56	Reserved Forest	0.043	0.850		
	7	Patch-1.3			Bhoramdev	328	Protected Forest	0.013	0.250	
	8					72	Reserved Forest	0.008	0.150	
	9					Chilpi	325	Protected Forest	0.028	0.550
	10	Bodhar			Chilpi		59	Reserved Forest	0.015	0.300
	11								0.240	5.100
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			

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वन परिक्षेत्र अधिकारी
विल्पी, भोरमदेव अभ्यारण्य

Divisional Forest Officer
Kawardha, Division Kawardha

अधीक्षक
भोरमदेव अभ्यारण्य, कवर्धा



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' 19.175" 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
	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

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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°

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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"
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

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Divisional Forest Officer
Kawardha, Division Kawardha

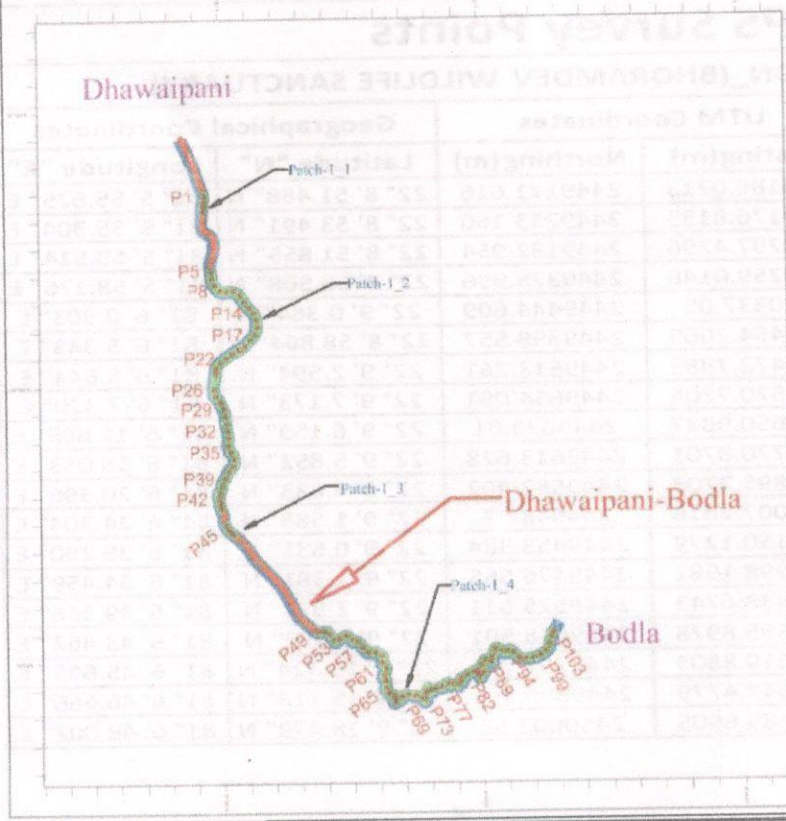
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6.3 DGPS Surveyed coordinates of Forest Patches (Annexure-2):



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.	Station	UTM Northing (m)	UTM Easting (m)	UTM Zone	UTM Datum	UTM Projection	UTM Spheroid	UTM Flattening	UTM Semi-Major Axis (m)
P1	...	...	...	...	...	...	...	...	...
P2	...	...	...	...	...	...	...	...	...
P3	...	...	...	...	...	...	...	...	...
P4	...	...	...	...	...	...	...	...	...
P5	...	...	...	...	...	...	...	...	...
P6	...	...	...	...	...	...	...	...	...
P7	...	...	...	...	...	...	...	...	...
P8	...	...	...	...	...	...	...	...	...
P9	...	...	...	...	...	...	...	...	...
P10	...	...	...	...	...	...	...	...	...
P11	...	...	...	...	...	...	...	...	...
P12	...	...	...	...	...	...	...	...	...
P13	...	...	...	...	...	...	...	...	...
P14	...	...	...	...	...	...	...	...	...
P15	...	...	...	...	...	...	...	...	...
P16	...	...	...	...	...	...	...	...	...
P17	...	...	...	...	...	...	...	...	...
P18	...	...	...	...	...	...	...	...	...
P19	...	...	...	...	...	...	...	...	...
P20	...	...	...	...	...	...	...	...	...
P21	...	...	...	...	...	...	...	...	...
P22	...	...	...	...	...	...	...	...	...
P23	...	...	...	...	...	...	...	...	...
P24	...	...	...	...	...	...	...	...	...
P25	...	...	...	...	...	...	...	...	...
P26	...	...	...	...	...	...	...	...	...
P27	...	...	...	...	...	...	...	...	...
P28	...	...	...	...	...	...	...	...	...
P29	...	...	...	...	...	...	...	...	...
P30	...	...	...	...	...	...	...	...	...
P31	...	...	...	...	...	...	...	...	...
P32	...	...	...	...	...	...	...	...	...
P33	...	...	...	...	...	...	...	...	...
P34	...	...	...	...	...	...	...	...	...
P35	...	...	...	...	...	...	...	...	...
P36	...	...	...	...	...	...	...	...	...
P37	...	...	...	...	...	...	...	...	...
P38	...	...	...	...	...	...	...	...	...
P39	...	...	...	...	...	...	...	...	...
P40	...	...	...	...	...	...	...	...	...
P41	...	...	...	...	...	...	...	...	...
P42	...	...	...	...	...	...	...	...	...
P43	...	...	...	...	...	...	...	...	...
P44	...	...	...	...	...	...	...	...	...
P45	...	...	...	...	...	...	...	...	...
P46	...	...	...	...	...	...	...	...	...
P47	...	...	...	...	...	...	...	...	...
P48	...	...	...	...	...	...	...	...	...
P49	...	...	...	...	...	...	...	...	...
P50	...	...	...	...	...	...	...	...	...
P51	...	...	...	...	...	...	...	...	...
P52	...	...	...	...	...	...	...	...	...
P53	...	...	...	...	...	...	...	...	...
P54	...	...	...	...	...	...	...	...	...
P55	...	...	...	...	...	...	...	...	...
P56	...	...	...	...	...	...	...	...	...
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P59	...	...	...	...	...	...	...	...	...
P60	...	...	...	...	...	...	...	...	...
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P62	...	...	...	...	...	...	...	...	...
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P99	...	...	...	...	...	...	...	...	...
P100	...	...	...	...	...	...	...	...	...

SCHEDULE OF FOREST LAND - RESERVE & PROTECTED FOREST									
KAWARDHA DIVISION (BHORAMDEV WILDLIFE SANCTUARY) - FOREST AREA STATEMENT									
STATION	SR. NO.	NAME	CLASS	CLASS CODE	COMPARISON	TYPE OF LAND	DATE OF SURV. (MM/YY)	AREA (HA)	REMARKS
Dhawaipani-Bodla	1	Patch-1.1	Forest	100	100	Forest	01/2019	0.000	
	2	Patch-1.2	Forest	100	100	Forest	01/2019	0.000	
	3	Patch-1.3	Forest	100	100	Forest	01/2019	0.000	
	4	Patch-1.4	Forest	100	100	Forest	01/2019	0.000	
	5	Patch-1.5	Forest	100	100	Forest	01/2019	0.000	
	6	Patch-1.6	Forest	100	100	Forest	01/2019	0.000	
	7	Patch-1.7	Forest	100	100	Forest	01/2019	0.000	
	8	Patch-1.8	Forest	100	100	Forest	01/2019	0.000	
	9	Patch-1.9	Forest	100	100	Forest	01/2019	0.000	
	10	Patch-1.10	Forest	100	100	Forest	01/2019	0.000	
TOTAL FOREST AREA								0.000	
Total Forest Area								0.000	
Total Forest Area								0.000	
Total Forest Area								0.000	
Total Forest Area								0.000	
Total Forest Area								0.000	
Total Forest Area								0.000	
Total Forest Area								0.000	
Total Forest Area								0.000	



Telesonic Networks Ltd.
3rd Floor, Metro Towers, Near
Vijay Nagar Square Scheme
No-54, Indore-452010.

www.airtel.in
Call +91 731 4222555



6.4 Geo-Referenced Maps of the Proposed Route (Annexure-3):

MAP SHOWING DGPS SURVEYED FOREST AREA PROPOSED FOR DIVERSION FOR LAYING OF OFC CABLE WITHIN NH, SH, PWD & PMGSY ROAD CORRIDOR FOR (BHORAMDEV WILDLIFE SANCTUARY (KAWARDHA DIVISION) OF CHHATTISGARH

