

# कार्यालय वनमण्डलाधिकारी, कोरबा वनमण्डल कोरबा (छ.ग.)

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क्रमांक/तक.अ/ 6943

कोरबा, दिनांक 05/11/2019

प्रति,

मुख्य कार्यपालन अधिकारी  
चिप्स स्टेट डाटा सेन्टर,  
सिविल लाईन्स रायपुर (छ.ग.)

**विषय :** भारत सरकार की महत्वपूर्ण योजना "भारतनेट प्रोजेक्ट (A Part of Digital India)" के सफल क्रियान्वयन हेतु कोरबा जिला के कोरबा वनमण्डल क्षेत्रांतर्गत करतला ब्लॉक के अंतर्गत शामिल ग्राम पंचायत के मार्ग समानांतर 3.570 हे. वनभूमि 0.473 हे. राजस्व वनभूमि कुल रकबा 4.043 हे. वनभूमि पर आर्टिकल फायबर केबल बिछाने विषयक ।

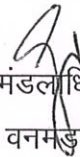
**संदर्भ :** प्राधिकृत अधिकारी, टाटा प्रोडक्ट्स लिमिटेड रायपुर, छत्तीसगढ़ का पत्र क/भानेप्रो/ओएफसी/वनभूमि/प्रस्ताव/2019-20/19 दिनांक -

—00—

उपरोक्त विषयान्तर्गत लेख है कि संदर्भित पत्र के द्वारा गैर वानिकी कार्य के उपयोग हेतु वन संरक्षण अधिनियम 1980 के तहत पंजीयन आबंटन करने बाबत डी.जी.पी.एस. सर्वे रिपोर्ट प्रस्तुत की गई है। जिसमें हस्ताक्षर उपरांत आपकी ओर आवश्यक कार्यवाही हेतु संलग्न प्रेषित है।

आप वन संरक्षण अधिनियम 1980 के तहत अपर प्रधान मुख्य वन संरक्षक (भू-प्रबंध/व.स.अ.) छत्तीसगढ़, अटल नगर रायपुर से पंजीयन नम्बर आबंटित करावें।

सहपत्र - डी.जी.पी.एस. रिपोर्ट - 01 नग ।

  
वनमंडलाधिकारी  
कोरबा वनमंडल कोरबा

# **CHHATTISGARH BHARATNET PHASE-II PROJECT**

## **LIDAR/DGPS SURVEY REPORT FOR KORBA FOREST DIVISION FOR DIVERSION OF PROPOSED OFC ROUTES**

Forest Division	:	<b>KORBA</b>
Forest Land (RF/PF/OA)	:	<b>3.570 Ha.</b>
Rev. Forest Land	:	<b>0.473 Ha.</b>
Total Proposed Diversion Area	:	<b>4.043 Ha.</b>
Block	:	<b>KARTALA</b>
District	:	<b>KORBA (C.G.)</b>

Applicant -



**Chhattisgarh Infotech Promotion Society (CHIPS)  
Raipur (Chhattisgarh)**

Submitted By -



**TATA PROJECTS**

**Tata Projects Limited, Raipur (Chhattisgarh)**



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## 1. Introduction and Background

### 1.1. Background

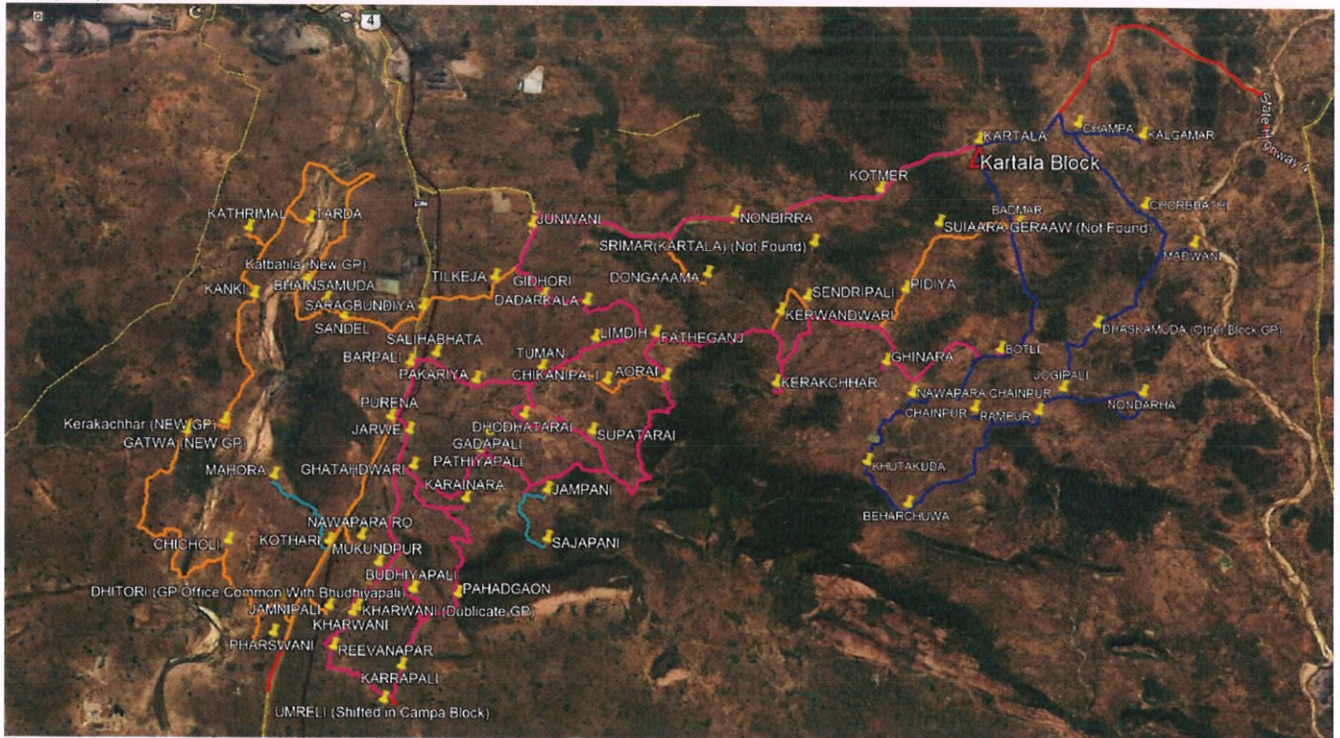
The Government of Chhattisgarh intends to setup an Optical Fibre Cable Network from the Block Head Quarters to Gram Panchayats to provide high speed broadband connectivity by connecting the 85 Blocks, 5987 Gram Panchayats across the State. The proposed network architecture for BharatNet Phase-II project follows ring architecture with Internet Protocol – Multi Protocol Label Switching (IP-MPLS) technology. The network shall be leveraged to deliver scalable bandwidth to households, institutions and enterprises. It is planned to have an IP-MPLS ring at GP level with provisioning of 6 dedicated core of fibre as mandated by Government of India.

The Chhattisgarh Infotech Promotion Society (CHIPS), a Registered Society promoted by the Government of Chhattisgarh, is the nodal agency and prime mover for propelling IT growth and implementation of IT plans in the State.

The Chhattisgarh Infotech Promotion Society (CHIPS) has selected an implementation partner “**Tata Project Limited**” for BharatNet Phase-II Project. The project has been conceived with the ambitious vision of providing connectivity to the yet unreachable blocks in Chhattisgarh and entails massive investment on the infrastructure creation across the state which would serve as the information highway for decades to come.

### 1.2. Proposed Routes

The proposed routes in Kartala block with in Korba Forest Division.



OFC Cable Proposed Routes in Kartala Block in Korba Forest Division.

### 1.3. Location

The proposed OFC Cable route in Korba Forest Division (The OFC route Kartala Block; District: Korba). The Proposed OFC route length is approx. 414.959 Km in Kartala Block hence Total route lengths is 414.959 km. The survey site passes through forest ranges Kartala, Korba and Kudmura of Korba Forest Division. The OFC Cable route is covered under Survey of India Toposheets 64 J11,64 J12,64 J15, and 64 J16 and 64 N03,64 N04 RF 1:50000.

### 1.4. Objectives

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 LiDAR/Differential GPS (DGPS) and the same should be uploaded to MoEF website along with the online application.

To meet this requirement, **Tata Project Limited** entrusted the DGPS survey work to **Genesys International Corporation Limited, Mumbai** through Mobile LiDAR Technology.

## **2. Scope of Work**

1. Establishment of Ground Control Pointy with 72 Hours observation which covering approx. 15 km radius of the proposed route.
2. DGPS Survey for collection of ground coordinates along the proposed OFC Cable trench at every 200 m 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
  - I. Geo-referencing of SOI Toposheet (scale 1:50000).
  - II. Creation of OFC Cable trench boundary vector map using the DGPS Surveyed data
  - III. Computation of Forest area and preparation of Forest Area Statement for proposed diversion. It includes Reserved/Protected Forest/ Orange Area & Revenue Forest Land.
  - IV. Preparation of Geo-referenced map showing proposed OFC Route.
  - V. Superimposition of cable route layer on Geo-referenced SOI Toposheet (scale 1:50000).
  - VI. Preparation of DGPS survey report along with soft copy of maps including shapefile format and kml file.
4. Preparation of Desired report, Geo-referenced maps and Technical compliance in Hard copy and soft copy.

## **3. Deliverables**

The deliverables envisaged for the assignment are described below -

1. Proposed Forest Diversion area statement as per LiDAR / DGPS Survey of proposed OFC route.
2. Geo-referenced map showing proposed OFC route in forest area and superimposed on SOI maps based on LiDAR / DGPS observations – Hard and Soft Copy (Maps in PDF format, SHP and KML formats).
3. LiDAR / DGPS Survey and Mapping Reports containing Ground Control Points report as the primary Control Points.
4. DGPS Survey and mapping report on hard copy and soft copy in CD.

## **4. Technical Approach**

### **4.1. GCP Establishment for LiDAR (DGPS) Survey:**

DGPS Survey with high precision equipment was used in blocks to bring mapping in to a single co-ordinates system. These Ground Control Point (GCPs) were connected to the Mobile LiDAR Mapping for accuracy purpose. The Ground Control Point required for eliminates the traditional mapping. The system can achieve millimeter accuracy of vehicle positioning, 3-D coordinates, and objects measured from the Geo-referenced image sequences. The Ground Control Point with 72 Hours of DGPS observation for Post Processing the GCP data with International GNSS Service (IGS) stations.

### **4.2. Mobile LiDAR (DGPS) data collection:**

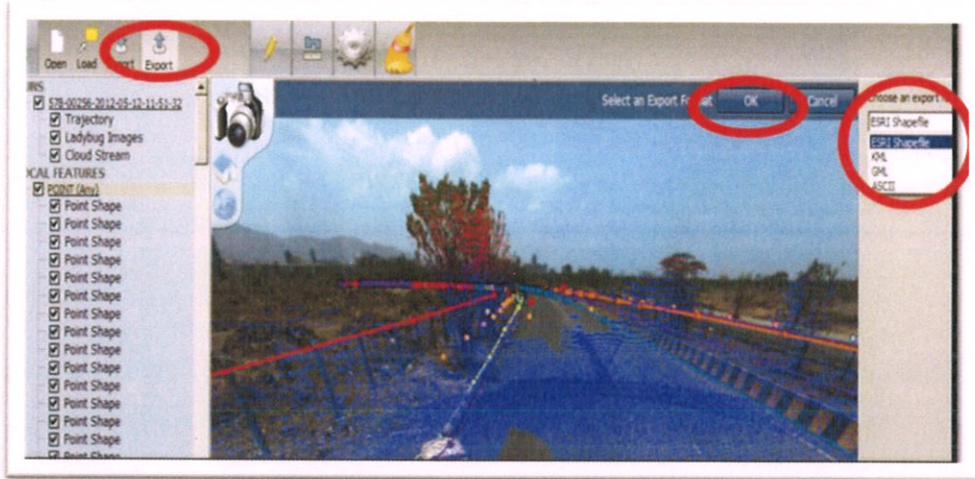
DGPS based Mobile LiDAR data was collected along with 360 degree panoramic view of the OFC route corridor (25 meter on each side along the center of the road).



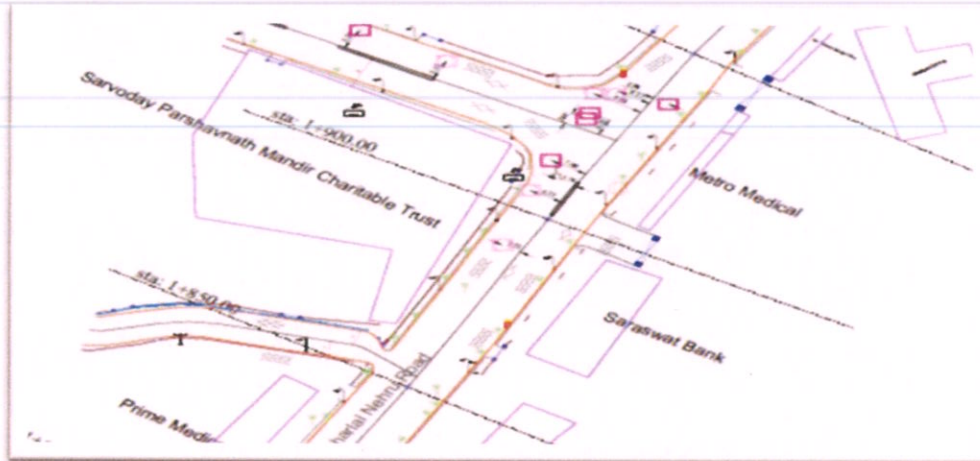
Mobile LiDAR Van

#### 4.3. DRS / GIS Map Creation Using LiDAR data:

All the features along the route are captured using LiDAR data and Panoramic Imagery to create the DRS / GIS Map.



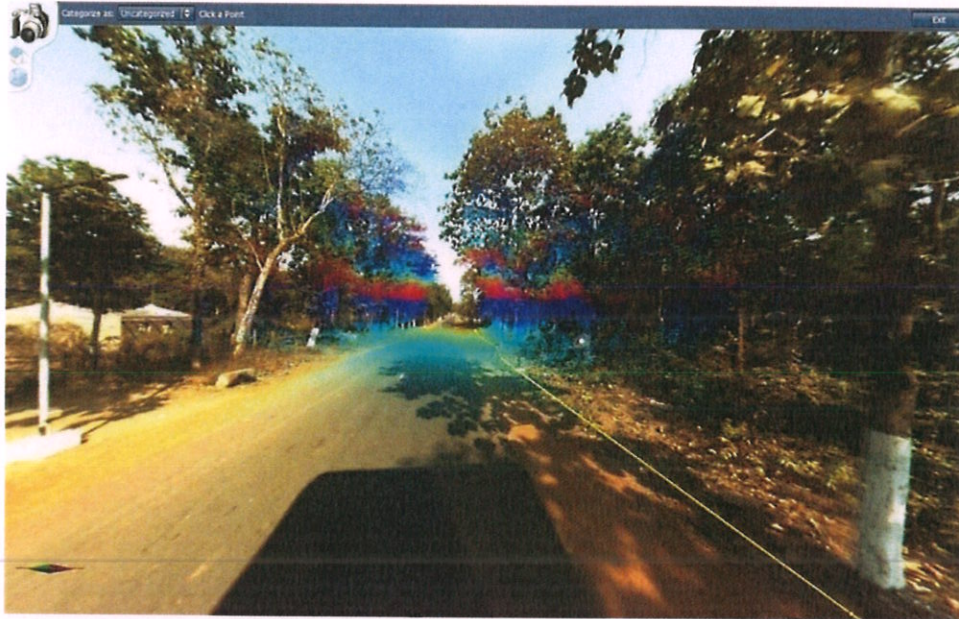
Feature Extraction on LiDAR



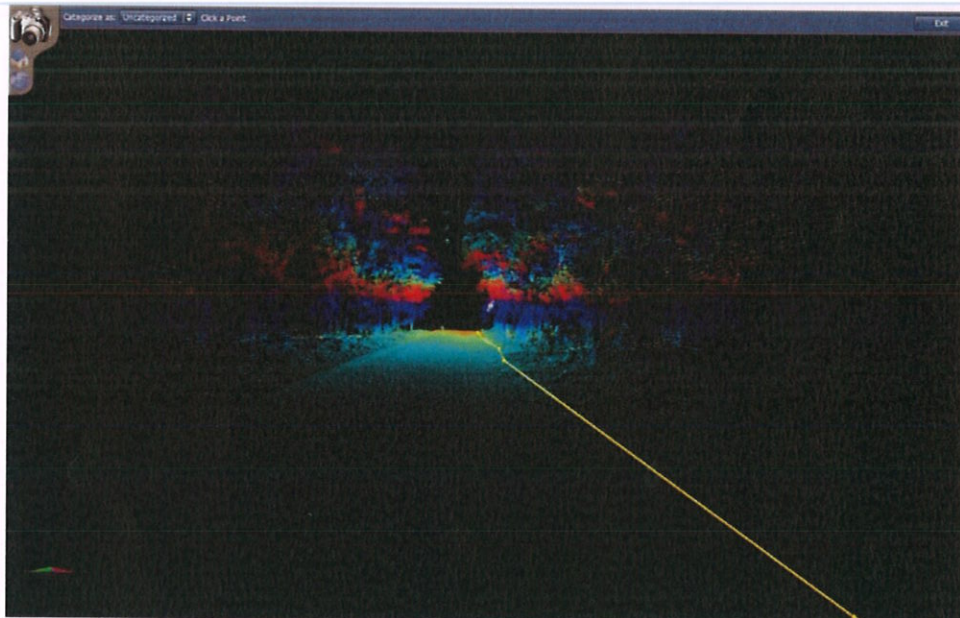
Final DRS / GIS Map

4.4. Demarcation of Proposed OFC on LiDAR data:

Proposed OFC line is demarcated based on the feasibility of trenching to be done on ground by referring the LiDAR data with the panoramic imagery.



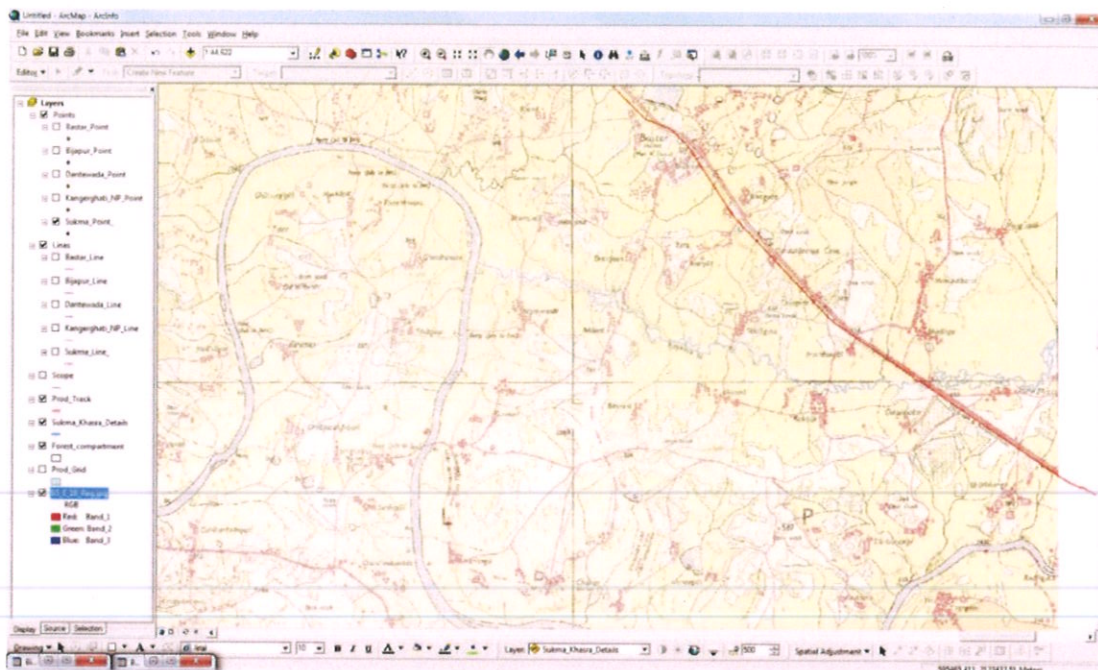
Proposed OFC Line on LiDAR Data (with Panoramic Imagery)



Proposed OFC Line on LiDAR Data only

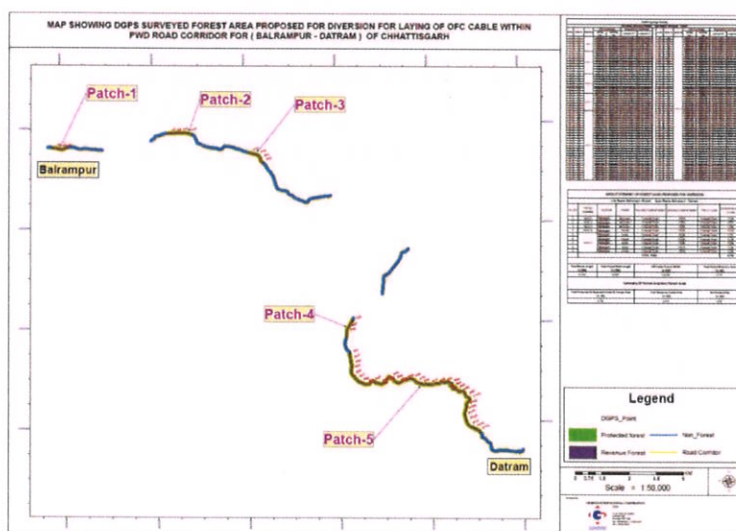
#### 4.5. Geo-referencing of Maps:

Geo-referencing of Revenue Village Maps and SOI Toposheets are to be done. SOI Toposheets would be geo-referenced based on the coordinates provided on the maps whereas Revenue Village Maps would be geo-referenced with the help of GCPs collected on field. (At least 5 GCPs for a village having Government Forest Land are to be collected)



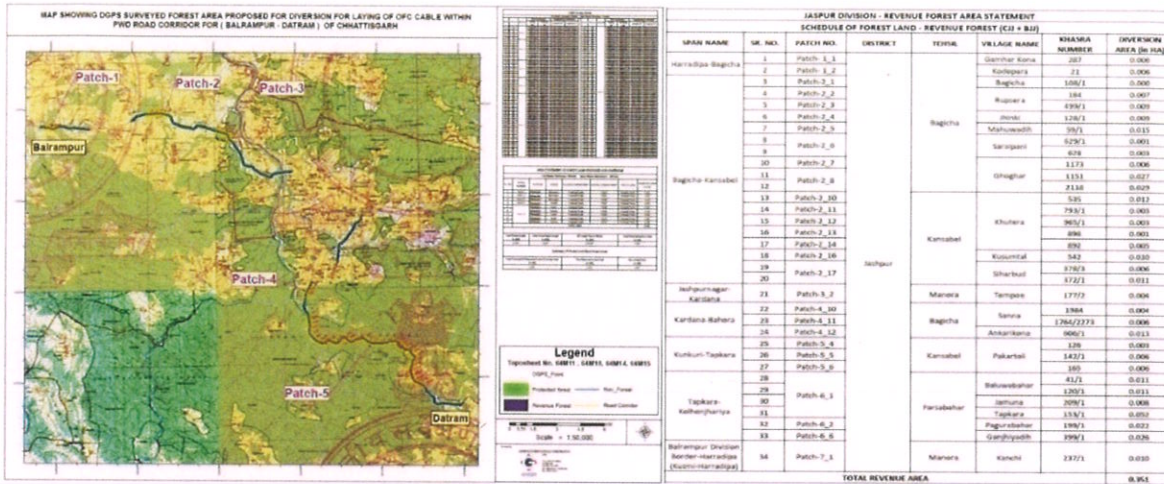
#### 4.6. Creation of Vector Data for Forest Diversion:

Different Layers such as Polygon of Reserved Forest /Protected Forest /Orange Area Patch, Centerline of Proposed OFC Trench, Non-Forest Trench line, Polygons showing Revenue Forest patches etc. are to be created using the Lidar based GDPS Observation, Geo-referenced maps and the information provided by the forest department and Revenue department.



#### 4.7. Generation of Map and Survey Reports for Forest Diversion

A map is created by overlaying the created vector data for the forest patches on the Geo-referenced SOI Toposheets. The reports are generated for DGPS Points (with Lat/long) placed at the regular intervals of 100 m on the proposed OFC route in the forest area. Another report is generated having area calculation for the proposed trench area in different type of Forest Lands. Samples of these are as below.



Geo-referenced Map

Forest Area Statement

## 5. DGPS Survey Results

The total OFC route length is approx. 414.959 km. covered Kartala Block of Korba District. Out of this 334.106 km OFC route length is passing through non-forest land and 80.853 km OFC route length is passing through Forest Patches hence the proposed forest area for diversion 4.043 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.

### 5.1. Forest Area Statement (Annexure-1)

Forest Area Statement – Kartala Block with in Korba Forest Division, District - Korba						
Total Route Length (in Km.)	Length of Non Forest Land (in Km.)	Width of Non Forest Land (in Km.)	Area of Non-Forest Land (in Ha.)	Length of Forest Land (in km.)	Width of Forest Land (in km.)	Area of Proposed Forest Land (in Ha.)
414.959	334.106	0.0005	16.705	80.853	0.0005	4.043

Korba Forest Division – Total Forest Area for Diversion Proposal						
Sl. No.	Forest Division	Forest range	No of Compartment	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
1	Korba	Kartala	38	59250.085	0.5	2.963
2	Korba	korba	3	3519.284	0.5	0.176
3	Korba	Kudmura	7	8613.033	0.5	0.431
Total of Table A				71382.402	0.5	3.570
Sl. No.	District	Block	No of Khastra	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
1	Korba	Kartala	27	9470.227	0.5	0.473
Total of Table B				9470.227	0.5	0.473
Total Diversion Area (Table A+TableB)				80852.629	0.5	4.043





Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
1	5	Kartala	Korba	Kalgamar To Champa	Kartala	PF	P1142	1935.639	0.5	0.097
2	6	Kartala	Korba	Dhaskamura To Chorbhathi	Kartala	OA	OA 1439	1289.023	0.5	0.064
3	7	Kartala	Korba	Rampur To Nondarha	Kartala	PF	P1157	3640.086	0.5	0.182
4	8	Kartala	Korba	Beharchuwa To Rampur	Kartala	OA	OA 1471	210.749	0.5	0.011
5	8	Kartala	Korba	Beharchuwa To Rampur	Kartala	OA	OA 1470	3355.904	0.5	0.168
6	9	Kartala	Korba	Khutakuda To Beharchuwa	Kartala	PF	P1174	1184.144	0.5	0.059
7	10	Kartala	Korba	Kartala To Botli	Kartala	PF	P1151	1095.374	0.5	0.055
8	11	Kartala	Korba	Kartala To Botli	Kartala	OA	OA 1462	1489.165	0.5	0.074
9	11	Kartala	Korba	Kartala To Botli	Kartala	PF	P1149	3010.321	0.5	0.151
10	12	Kartala	Korba	Kartala To Botli	Kartala	OA	OA 1447	404.665	0.5	0.031
11	12	Kartala	Korba	Pidiya To Kartala	Kartala	OA	OA 1449	502.102	0.5	0.025
12	12	Kartala	Korba	Pidiya To Kartala	Kartala	OA	OA 1449	503.102	0.5	0.025
13	12	Kartala	Korba	Pidiya To Kartala	Kartala	PF	P1015	4443.333	0.5	0.222
14	13	Kartala	Korba	Kartala To Aorai	Kartala	OA	OA 1446	1678.357	0.5	0.084
15	13	Kartala	Korba	Kartala To Botli	Kartala	OA	OA 1448	1708.851	0.5	0.085
16	14	Kartala	Korba	Champa To Kartala	Kartala	OA	OA 1446	767.063	0.5	0.038
17	14	Kartala	Korba	Champa To Kartala	Kartala	PF	P1034	987.752	0.5	0.049
18	15	Kartala	Korba	Kartala To Kotmer	Kartala	OA	OA 1451	2260.934	0.5	0.113
19	15	Kartala	Korba	Kartala To Kotmer	Kartala	PF	P1014	4189.613	0.5	0.209



Table A - Area statement for proposed forest Patches – Protected /Reserve /Orange Area										
Sl. No.	Patch	Block	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
20	16	Kartala	Korba	Dadarkala To Kartala	Kartala	PF	P995	1693.676	0.5	0.084
21	17	Kartala	Korba	Kotmer To Saragbundiya	Kartala	PF	P1143	715.501	0.5	0.036
22	19	Kartala	Korba	Kotmer To Saragbundiya	Kartala	OA	OA 1456	1739.176	0.5	0.087
23	20	Kartala	Korba	Kotmer To Saragbundiya	Kartala	PF	P1146	1240.037	0.5	0.062
24	21	Kartala	Korba	Dongaaama To Nonbina	Kartala	PF	P1146	1914.812	0.5	0.095
25	22	Kartala	Korba	Dongaaama To Nonbina	Kartala	OA	OA 1457	413.412	0.5	0.021
26	24	Kartala	Korba	Bhainsamuda To Katbatila	Kartala	OA	OA 1504	1005.598	0.5	0.050
27	24	Kartala	Korba	Kathrimal To Kanki	Kartala	OA	OA 1506	147.978	0.5	0.007
28	25	Kartala	Korba	Kanki To Pharswani	Kartala	OA	OA 1504	2277.957	0.5	0.109
29	26	Kartala	Korba	Kothari To Mahora	Kartala	PF	P1165	794.214	0.5	0.040
30	27	Kartala	Korba	Pathiyapali To Pahadgaon	Kartala	PF	P1166	1494.233	0.5	0.075
31	29	Kartala	Korba	Aorai To Pathiyapali	Kartala	OA	OA 1489	222.099	0.5	0.011
32	29	Kartala	Korba	Aorai To Pathiyapali	Kartala	OA	OA 1490	457.876	0.5	0.023
33	29	Kartala	Korba	Aorai To Pathiyapali	Kartala	PF	P1169	2036.130	0.5	0.100
34	29	Kartala	Korba	Aorai To Pathiyapali	Kartala	PF	P1170	2676.030	0.5	0.133
35	30	Kartala	Korba	Dhodhatarai To Supatarai	Kartala	OA	OA 1495	511.606	0.5	0.026
36	33	Kartala	Korba	Fatheganj To Kerwandwari	Kartala	OA	OA 1485	1874.012	0.5	0.094
37	34	Kartala	Korba	Kartala To Aorai	Kartala	PF	P1171	1268.751	0.5	0.063
38	34	Kartala	Korba	Kerwandwari To Sendripali	Kartala	OA	OA 1458	2110.810	0.5	0.105

*Chhattisgarh BharatNet Phase-II Project*

Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
<b>Total-</b>										
39	17	Kartala	Korba	Kotmer To Saragbundiya	Kartala	OA	OA 1305	1471.513	0.5	0.074
40	17	Kartala	Korba	Kotmer To Saragbundiya	Kartala	OA	OA 1304	781.644	0.5	0.039
41	23	Kartala	Korba	Kotmer To Saragbundiya	Korba	OA	OA 1302	1266.127	0.5	0.063
<b>Total</b>										
42	1	Kartala	Korba	Kartala To Kunmura	Kudmura	OA	OA 1425	447.595	0.5	0.022
43	2	Kartala	Korba	Kartala To Kunmura	Kudmura	OA	OA 1424	684.961	0.5	0.034
44	2	Kartala	Korba	Kartala To Chachiya	Kudmura	PF	P1139	1627.870	0.5	0.081
45	3	Kartala	Korba	Kartala To Chachiya	Kudmura	PF	P1138	2335.917	0.5	0.117
46	4	Kartala	Korba	Kartala Block To Kalgamar	Kudmura	PF	P1141	614.336	0.5	0.031
47	4	Kartala	Korba	Kartala To Chachiya	Kudmura	OA	OA 1429	949.733	0.5	0.048
48	28	Kartala	Korba	Aorai To Pathiyapali	Kudmura	PF	P1177	1952.621	0.5	0.098
<b>Total</b>										
<b>Grand Total-</b>										
							<b>7</b>	<b>8613.033</b>	<b>0.5</b>	<b>0.431</b>
							<b>48</b>	<b>71382.402</b>	<b>0.5</b>	<b>3.570</b>





Table B - Area statement for proposed forest Patches – Revenue Forest land (Chhote / Bade Jhad ka Jangal)										
Sl No.	Patch	District	Block	Route Name	Village	Type	Khasra No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
1	6	Korba	Kartala	Madwani To Dhaskamuda	Charmar	BJJ	511	52.910	0.5	0.003
2	6	Korba	Kartala	Madwani To Dhaskamuda	Manvani	BJJ	363	53.502	0.5	0.003
3	6	Korba	Kartala	Madwani To Dhaskamuda	Manvani	BJJ	364	25.878	0.5	0.001
4	7	Korba	Kartala	Jogipali To Jogipali	Nondarha	BJJ	648	99.423	0.5	0.005
5	7	Korba	Kartala	Jogipali To Rampur	Rampur	BJJ	434	226.936	0.5	0.011
6	8	Korba	Kartala	Rampur To Chainpur	Rampur	BJJ	10	302.199	0.5	0.015
7	8	Korba	Kartala	Rampur To Chainpur	Rampur	BJJ	750/1	232.646	0.5	0.012
8	10	Korba	Kartala	Ghinara To Botli	Botli	BJJ	644/1	130.520	0.5	0.007
9	11	Korba	Kartala	Dhaskamuda To Badmar	Tenganmar	BJJ	423	1163.787	0.5	0.056
10	14	Korba	Kartala	Kartala To Champa	Kartala	BJJ	1224	158.797	0.5	0.008
11	15	Korba	Kartala	Kartala To Kotmer	Kartala	BJJ	595	364.209	0.5	0.018
12	16	Korba	Kartala	Kotmer To Nonbirra	Kotmer	BJJ	45/1	510.504	0.5	0.026
13	16	Korba	Kartala	Kotmer To Nonbirra	Kotmer	BJJ	846	259.889	0.5	0.013
14	18	Korba	Kartala	Nonbirra To Dongaama	Nonbirra	BJJ	359	451.865	0.5	0.023
15	21	Korba	Kartala	Nonbirra To Dongaama	Dongaama	BJJ	1/1	737.809	0.5	0.037
16	25	Korba	Kartala	Kanki To Kerakachhar	Kanki	BJJ	1606	475.851	0.5	0.024
17	30	Korba	Kartala	Supatarai To Dhodhatarai	Supatarai	BJJ	80	158.159	0.5	0.008
18	31	Korba	Kartala	Tuman To Chikanipali	Chiknipali	BJJ	2/1	209.140	0.5	0.010
19	31	Korba	Kartala	Tuman To Chikanipali	Chiknipali	BJJ	441/1	127.242	0.5	0.006

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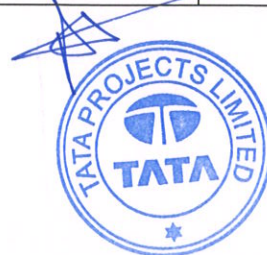
Table B - Area statement for proposed forest Patches – Revenue Forest land (Chhote / Bade Jhad ka Jangal)										
Sl No.	Patch	District	Block	Route Name	Village	Type	Khasra No	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
20	31	Korba	Kartala	Tuman To Chikanipali	Chiknipali	BJJ	65/1	120.395	0.5	0.006
21	31	Korba	Kartala	Tuman To Chikanipali	Chiknipali	BJJ	65/2	175.682	0.5	0.009
22	31	Korba	Kartala	Tuman To Chikanipali	Chiknipali	BJJ	89/1	154.537	0.5	0.008
23	32	Korba	Kartala	Fatheganj To Aorai	Aurai	BJJ	419	279.815	0.5	0.014
24	32	Korba	Kartala	Fatheganj To Aorai	Aurai	BJJ	470	1184.961	0.5	0.059
25	32	Korba	Kartala	Fatheganj To Aorai	Aurai	BJJ	7	353.286	0.5	0.018
26	34	Korba	Kartala	Kerwandwari To Sendripali	Kervaduware	BJJ	420	355.078	0.5	0.018
27	35	Korba	Kartala	Sendripali To Ghinara	Sendripali	BJJ	543	1105.207	0.5	0.055
<b>Total-</b>							<b>27</b>	<b>9470.227</b>	<b>0.5</b>	<b>0.473</b>



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5.2. LiDAR/DGPS Surveyed coordinates of Forest Patches (Annexure-2)

Point	Patch	Longitud in D:M:S	Latitud i D:M:S	Point	Patch	Longitud in D:M:S	Latitud i D:M:S
P-1	1	83°04'36.13849"	22°18'40.13256"	P-51	5	83°01'05.49374"	22°18'24.55736"
P-2	1	83°04'36.79974"	22°18'46.60377"	P-52	5	83°01'12.25333"	22°18'23.07204"
P-3	1	83°04'37.41919"	22°18'53.07844"	P-53	5	83°01'18.15072"	22°18'19.77109"
P-4	1	83°04'37.57594"	22°18'54.61851"	P-54	5	83°01'22.62076"	22°18'18.31204"
P-5	2	83°03'22.32248"	22°20'06.11768"	P-55	6	83°01'41.58117"	22°14'58.90348"
P-6	2	83°03'15.74563"	22°20'08.26689"	P-56	6	83°01'44.24428"	22°15'04.88315"
P-7	2	83°03'08.89885"	22°20'09.56337"	P-57	6	83°01'49.03334"	22°15'09.34880"
P-8	2	83°03'02.07340"	22°20'10.93513"	P-58	6	83°01'53.28984"	22°15'14.26055"
P-9	2	83°02'55.40242"	22°20'12.87009"	P-59	6	83°01'56.84139"	22°15'23.10146"
P-10	2	83°02'48.88384"	22°20'15.20904"	P-60	6	83°02'00.88930"	22°15'28.37624"
P-11	2	83°03'46.55765"	22°19'48.50744"	P-61	6	83°02'03.89507"	22°15'34.23750"
P-12	2	83°03'40.92433"	22°19'52.23888"	P-62	6	83°02'05.09081"	22°15'36.90742"
P-13	2	83°03'35.58013"	22°19'56.32746"	P-63	6	83°01'40.64526"	22°14'57.42089"
P-14	2	83°03'34.88700"	22°19'56.96371"	P-64	6	83°01'41.58117"	22°14'58.90348"
P-15	2	83°04'09.69933"	22°19'32.95337"	P-65	6	83°01'54.39562"	22°15'17.27031"
P-16	2	83°04'02.96952"	22°19'34.62042"	P-66	6	83°01'55.08297"	22°15'18.88737"
P-17	2	83°03'57.72375"	22°19'38.89990"	P-67	6	83°02'05.21332"	22°15'37.18362"
P-18	2	83°03'52.58051"	22°19'43.29882"	P-68	6	83°02'05.21332"	22°15'37.18362"
P-19	2	83°03'50.41854"	22°19'45.19103"	P-69	7	83°00'53.67827"	22°12'18.09196"
P-20	3	83°02'03.65446"	22°20'40.00436"	P-70	7	83°00'47.14649"	22°12'15.82669"
P-21	3	83°01'57.69175"	22°20'43.37641"	P-71	7	83°00'40.29612"	22°12'14.66310"
P-22	3	83°01'51.62460"	22°20'46.60207"	P-72	7	83°00'33.42621"	22°12'14.96861"
P-23	3	83°01'45.55621"	22°20'49.82039"	P-73	7	83°00'26.45824"	22°12'14.72228"
P-24	3	83°01'38.82534"	22°20'51.54923"	P-74	7	83°00'19.47855"	22°12'14.78421"
P-25	3	83°01'32.02248"	22°20'53.03248"	P-75	7	83°00'12.51340"	22°12'15.16684"
P-26	3	83°01'25.12765"	22°20'53.94632"	P-76	7	83°00'18.78522"	22°12'14.46619"
P-27	3	83°01'18.15168"	22°20'54.31153"	P-77	7	83°00'25.76440"	22°12'14.37635"
P-28	3	83°01'11.17519"	22°20'54.44656"	P-78	7	83°00'32.73517"	22°12'14.66717"
P-29	3	83°01'04.34539"	22°20'53.08433"	P-79	7	83°00'39.60668"	22°12'14.26094"
P-30	3	83°00'57.50392"	22°20'51.76423"	P-80	7	83°00'46.50274"	22°12'15.23909"
P-31	3	83°00'50.62090"	22°20'50.67504"	P-81	7	83°00'53.01611"	22°12'17.56292"



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Point	Patch	Longitud in D:M:S	Latitud i D:M:S	Point	Patch	Longitud in D:M:S	Latitud i D:M:S
P-32	3	83°00'48.64665"	22°20'46.91363"	P-82	7	83°00'57.53297"	22°12'12.90910"
P-33	4	83°00'07.03970"	22°19'38.98239"	P-83	7	83°01'01.81233"	22°12'07.77252"
P-34	4	83°00'03.35694"	22°19'33.46537"	P-84	7	83°01'06.55382"	22°12'03.01174"
P-35	4	82°59'59.28971"	22°19'28.18321"	P-85	7	83°01'11.43057"	22°11'58.36391"
P-36	4	82°59'55.26389"	22°19'22.87009"	P-86	7	83°01'16.84639"	22°11'54.36411"
P-37	4	82°59'54.97073"	22°19'22.49229"	P-87	7	83°01'23.49900"	22°11'52.61035"
P-38	4	83°00'20.58473"	22°20'05.43748"	P-88	7	83°01'24.89712"	22°11'52.55780"
P-39	4	83°00'14.71571"	22°20'01.90932"	P-89	7	83°00'56.94001"	22°12'19.18879"
P-40	4	83°00'12.20162"	22°19'56.08830"	P-90	7	83°00'53.67827"	22°12'18.09196"
P-41	4	83°00'10.72988"	22°19'49.73604"	P-91	7	82°59'29.13290"	22°12'12.87672"
P-42	4	83°00'09.21659"	22°19'43.39517"	P-92	7	82°59'35.39021"	22°12'15.69458"
P-43	4	83°00'07.03970"	22°19'38.98239"	P-93	7	82°59'36.29629"	22°12'15.92858"
P-44	5	83°01'22.62053"	22°18'18.50813"	P-94	8	82°57'36.31961"	22°10'26.97670"
P-45	5	83°01'16.07100"	22°18'20.70528"	P-95	8	82°57'41.37132"	22°10'31.17770"
P-46	5	83°01'10.24391"	22°18'24.14421"	P-96	8	82°57'41.63194"	22°10'31.42900"
P-47	5	83°01'03.33939"	22°18'25.06757"	P-97	8	82°57'41.99022"	22°11'00.90329"
P-48	5	83°00'56.42296"	22°18'24.20126"	P-98	8	82°57'48.24472"	22°11'03.29866"
P-49	5	83°00'51.63411"	22°18'23.71070"	P-99	8	82°57'55.01374"	22°11'04.88733"
P-50	5	83°00'58.57702"	22°18'24.08378"	P-100	8	82°57'56.68466"	22°11'09.96433"
P-101	8	82°57'55.06171"	22°11'16.14060"	P-151	11	82°59'08.91148"	22°14'24.91178"
P-102	8	82°57'56.40687"	22°11'22.44237"	P-152	11	82°59'04.27628"	22°14'20.11286"
P-103	8	82°57'58.55211"	22°11'28.60053"	P-153	11	82°58'59.63291"	22°14'15.30860"
P-104	8	82°58'02.67809"	22°11'33.75723"	P-154	11	82°58'48.13748"	22°14'45.24474"
P-105	8	82°58'06.39549"	22°11'37.64633"	P-155	11	82°58'51.54476"	22°14'40.01129"
P-106	8	82°58'13.34476"	22°11'37.95601"	P-156	11	82°58'57.94629"	22°14'37.54434"
P-107	8	82°58'20.29268"	22°11'38.39560"	P-157	11	82°59'02.35650"	22°14'32.52387"
P-108	8	82°58'27.27278"	22°11'38.37090"	P-158	11	82°59'06.97143"	22°14'27.64711"
P-109	8	82°58'34.05716"	22°11'39.85887"	P-159	11	82°59'06.87856"	22°14'22.50794"
P-110	8	82°58'40.96588"	22°11'40.64681"	P-160	11	82°59'01.88498"	22°14'17.96516"
P-111	8	82°58'47.83116"	22°11'41.80573"	P-161	11	82°58'58.63488"	22°14'12.37021"
P-112	8	82°58'54.77330"	22°11'41.41970"	P-162	11	82°58'58.59633"	22°14'12.03666"
P-113	8	82°59'01.63748"	22°11'40.23718"	P-163	11	82°58'58.59633"	22°14'12.03666"
P-114	8	82°58'04.42884"	22°11'38.97506"	P-164	11	82°58'58.55731"	22°14'10.67225"

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Point	Patch	Longitud in D:M:S	Latitud i D:M:S	Point	Patch	Longitud in D:M:S	Latitud i D:M:S
P-115	8	82°58'01.87958"	22°11'45.92447"	P-165	11	82°58'58.55602"	22°14'01.63740"
P-116	8	82°58'03.34809"	22°11'42.48660"	P-166	11	82°58'58.53336"	22°14'01.81875"
P-117	8	82°58'01.76452"	22°11'45.45772"	P-167	11	82°59'00.23319"	22°13'50.11803"
P-118	8	82°59'12.54504"	22°11'39.14525"	P-168	11	82°59'00.12281"	22°13'50.71311"
P-119	8	82°59'10.22387"	22°11'38.51376"	P-169	11	82°58'59.33242"	22°13'45.89894"
P-120	8	82°59'11.34917"	22°11'38.34791"	P-170	12	82°58'02.75973"	22°16'45.78838"
P-121	9	82°55'41.94886"	22°09'41.53384"	P-171	12	82°58'03.31747"	22°16'43.23583"
P-122	9	82°55'37.35133"	22°09'46.37578"	P-172	12	82°58'04.34670"	22°16'41.71735"
P-123	9	82°55'32.30998"	22°09'54.30655"	P-173	12	82°58'04.40927"	22°16'41.57734"
P-124	9	82°55'27.22320"	22°09'58.70950"	P-174	12	82°56'26.85680"	22°15'45.65266"
P-125	9	82°55'21.76028"	22°10'02.75390"	P-175	12	82°56'30.56903"	22°15'51.11099"
P-126	9	82°55'15.85723"	22°10'06.22096"	P-176	12	82°56'37.12989"	22°15'52.92657"
P-127	9	82°55'12.29740"	22°10'10.67599"	P-177	12	82°56'40.53619"	22°15'53.95737"
P-128	10	82°56'43.32940"	22°13'07.96663"	P-178	12	82°57'40.06586"	22°16'07.76056"
P-129	10	82°56'38.18167"	22°13'03.57459"	P-179	12	82°57'43.99027"	22°16'13.03232"
P-130	10	82°56'33.41525"	22°12'58.82424"	P-180	12	82°57'50.82598"	22°16'13.94448"
P-131	10	82°56'28.68601"	22°12'54.04107"	P-181	12	82°57'57.75986"	22°16'14.64178"
P-132	10	82°56'23.91987"	22°12'49.28991"	P-182	12	82°58'04.69534"	22°16'14.94240"
P-133	10	82°56'18.99671"	22°12'44.68083"	P-183	12	82°58'11.62970"	22°16'14.41530"
P-134	10	82°56'16.62269"	22°12'42.50738"	P-184	12	82°58'17.53408"	22°16'11.01940"
P-135	10	82°56'46.69856"	22°13'10.82286"	P-185	12	82°58'23.19780"	22°16'07.21475"
P-136	10	82°56'43.32940"	22°13'07.96663"	P-186	12	82°58'05.94908"	22°16'39.35548"
P-137	11	82°58'39.82773"	22°15'11.28725"	P-187	12	82°58'11.11500"	22°16'35.02127"
P-138	11	82°58'42.32490"	22°15'05.25075"	P-188	12	82°58'16.26580"	22°16'30.67854"
P-139	11	82°58'44.53159"	22°14'59.12046"	P-189	12	82°58'20.14601"	22°16'25.32570"
P-140	11	82°58'46.20542"	22°14'52.80942"	P-190	12	82°58'22.81029"	22°16'19.31755"
P-141	11	82°58'40.28297"	22°15'09.53514"	P-191	12	82°58'21.99451"	22°16'20.29374"
P-142	11	82°58'43.16155"	22°15'03.62892"	P-192	12	82°58'19.26792"	22°16'26.27811"
P-143	11	82°58'44.95698"	22°14'57.36161"	P-193	12	82°58'15.07756"	22°16'31.45293"
P-144	11	82°58'46.67841"	22°14'51.06210"	P-194	12	82°58'09.68023"	22°16'35.55344"
P-145	11	82°58'47.39094"	22°14'48.24080"	P-195	12	82°58'04.80509"	22°16'40.16215"
P-146	11	82°58'47.40752"	22°14'48.24607"	P-196	12	82°58'06.70894"	22°16'38.46665"
P-147	11	82°58'49.00387"	22°14'41.93146"	P-197	12	82°58'12.08235"	22°16'34.33523"

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Point	Patch	Longitud in D:M:S	Latitud i D:M:S	Point	Patch	Longitud in D:M:S	Latitud i D:M:S
P-148	11	82°58'54.98016"	22°14'38.79576"	P-198	12	82°58'17.02250"	22°16'29.78722"
P-149	11	82°59'00.19334"	22°14'34.83892"	P-199	12	82°58'20.60378"	22°16'24.26769"
P-150	11	82°59'04.83570"	22°14'29.98450"	P-200	12	82°58'23.22086"	22°16'18.24214"
P-201	12	82°58'23.77842"	22°16'16.93272"	P-251	15	82°56'05.20630"	22°17'34.82895"
P-202	12	82°57'29.75387"	22°15'55.33099"	P-252	15	82°56'11.37224"	22°17'37.66139"
P-203	12	82°57'32.96352"	22°16'00.85944"	P-253	15	82°56'16.47253"	22°17'42.09037"
P-204	12	82°57'37.22833"	22°16'05.75191"	P-254	15	82°56'22.49753"	22°17'45.26632"
P-205	12	82°57'40.06586"	22°16'07.76056"	P-255	15	82°56'29.42704"	22°17'45.99499"
P-206	13	82°57'46.88830"	22°17'11.94329"	P-256	15	82°56'36.37834"	22°17'46.61653"
P-207	13	82°57'51.47326"	22°17'07.06228"	P-257	15	82°56'43.33949"	22°17'47.16483"
P-208	13	82°57'56.29365"	22°17'02.37862"	P-258	15	82°56'50.28881"	22°17'47.83194"
P-209	13	82°57'58.16511"	22°16'58.36795"	P-259	15	82°56'57.24983"	22°17'48.37994"
P-210	13	82°57'54.23303"	22°17'03.58063"	P-260	15	82°57'03.12257"	22°17'50.58761"
P-211	13	82°57'49.72284"	22°17'08.53864"	P-261	15	82°55'55.10154"	22°17'31.63949"
P-212	13	82°57'48.30897"	22°17'10.69107"	P-262	15	82°55'48.55970"	22°17'29.37526"
P-213	13	82°57'52.71582"	22°17'05.64880"	P-263	15	82°55'41.83906"	22°17'27.60035"
P-214	13	82°57'57.32446"	22°17'00.85064"	P-264	15	82°55'36.13214"	22°17'24.21152"
P-215	13	82°57'59.05630"	22°16'57.71483"	P-265	15	82°55'31.96219"	22°17'18.99631"
P-216	13	82°57'33.20977"	22°17'40.80376"	P-266	15	82°55'27.77575"	22°17'13.79206"
P-217	13	82°57'35.13786"	22°17'34.58390"	P-267	15	82°55'26.53823"	22°17'12.15859"
P-218	13	82°57'38.41495"	22°17'28.85370"	P-268	15	82°55'30.67150"	22°17'17.39985"
P-219	13	82°57'33.51144"	22°17'39.54050"	P-269	15	82°55'34.89241"	22°17'22.57988"
P-220	13	82°57'35.73963"	22°17'33.41383"	P-270	15	82°55'39.79914"	22°17'27.01105"
P-221	13	82°57'39.19352"	22°17'27.77418"	P-271	15	82°55'46.51421"	22°17'28.80265"
P-222	13	82°57'39.46576"	22°17'26.69666"	P-272	15	82°55'53.14683"	22°17'30.83286"
P-223	13	82°57'35.87890"	22°17'32.26910"	P-273	15	82°55'55.09962"	22°17'31.62099"
P-224	13	82°57'33.39115"	22°17'38.32188"	P-274	15	82°57'07.97940"	22°17'54.25040"
P-225	13	82°57'32.85332"	22°17'40.81918"	P-275	15	82°57'03.54728"	22°17'50.99672"
P-226	14	82°59'07.10009"	22°18'18.51177"	P-276	15	82°57'07.97790"	22°17'54.23263"
P-227	14	82°59'00.69846"	22°18'17.35352"	P-277	16	82°53'47.24071"	22°16'42.80977"
P-228	14	82°58'53.83749"	22°18'16.62564"	P-278	16	82°53'54.10150"	22°16'41.59203"
P-229	14	82°58'47.05202"	22°18'15.13015"	P-279	16	82°54'00.98053"	22°16'40.46602"
P-230	14	82°58'40.39252"	22°18'13.24158"	P-280	16	82°54'07.84632"	22°16'39.26735"

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Point	Patch	Longitud in D:M:S	Latitud i D:M:S	Point	Patch	Longitud in D:M:S	Latitud i D:M:S
P-231	14	82°58'34.26752"	22°18'11.06219"	P-281	16	82°54'14.77976"	22°16'38.49644"
P-232	14	82°58'20.07031"	22°18'09.43222"	P-282	16	82°54'10.73103"	22°16'38.89877"
P-233	14	82°58'13.12287"	22°18'08.74870"	P-283	16	82°54'03.84742"	22°16'39.99207"
P-234	14	82°58'06.17605"	22°18'08.05769"	P-284	16	82°53'56.97525"	22°16'41.15208"
P-235	14	82°57'59.22491"	22°18'07.40745"	P-285	16	82°53'50.09445"	22°16'42.27181"
P-236	14	82°57'53.51400"	22°18'06.35219"	P-286	16	82°53'46.89608"	22°16'42.89872"
P-237	14	82°58'25.58416"	22°18'08.98353"	P-287	16	82°54'51.84267"	22°16'42.92244"
P-238	14	82°58'20.07031"	22°18'09.43222"	P-288	16	82°54'44.85765"	22°16'42.98178"
P-239	15	82°57'03.10178"	22°17'50.59104"	P-289	16	82°54'47.98339"	22°16'42.96425"
P-240	15	82°56'56.82710"	22°17'48.37127"	P-290	16	82°54'51.84245"	22°16'42.90618"
P-241	15	82°56'49.86754"	22°17'47.80717"	P-291	16	82°54'38.38199"	22°16'42.54952"
P-242	15	82°56'42.91774"	22°17'47.14456"	P-292	16	82°54'36.36851"	22°16'42.22347"
P-243	15	82°56'35.95643"	22°17'46.59777"	P-293	16	82°54'38.43194"	22°16'42.53830"
P-244	15	82°56'29.00980"	22°17'45.94340"	P-294	17	82°52'56.96844"	22°16'25.72078"
P-245	15	82°56'22.08612"	22°17'45.18892"	P-295	17	82°52'49.29212"	22°16'19.22191"
P-246	15	82°56'16.13295"	22°17'41.87219"	P-296	17	82°52'44.07939"	22°16'15.01585"
P-247	15	82°56'11.04891"	22°17'37.42445"	P-297	17	82°52'37.86344"	22°16'12.12622"
P-248	15	82°56'04.79577"	22°17'34.74840"	P-298	17	82°52'35.40630"	22°16'11.84959"
P-249	15	82°55'58.14001"	22°17'32.78798"	P-299	17	82°52'41.96308"	22°16'13.80592"
P-250	15	82°55'58.53757"	22°17'32.90738"	P-300	17	82°52'47.76646"	22°16'17.39273"
P-301	17	82°52'52.41746"	22°16'22.21164"	P-351	22	82°50'45.02232"	22°14'36.59353"
P-302	17	82°52'56.98107"	22°16'25.70948"	P-352	22	82°50'40.22934"	22°14'39.75469"
P-303	17	82°52'33.17572"	22°16'11.69182"	P-353	22	82°50'46.04083"	22°14'36.64346"
P-304	17	82°52'26.21272"	22°16'11.21843"	P-354	22	82°50'46.50560"	22°14'36.59044"
P-305	17	82°52'19.85212"	22°16'10.79240"	P-355	23	82°49'03.49545"	22°15'37.44608"
P-306	17	82°52'26.81952"	22°16'11.19551"	P-356	23	82°48'56.57258"	22°15'37.77405"
P-307	17	82°52'33.14174"	22°16'11.67356"	P-357	23	82°48'23.60111"	22°15'53.04568"
P-308	17	82°52'19.54172"	22°16'10.81774"	P-358	23	82°48'16.66046"	22°15'53.76401"
P-309	17	82°52'12.64150"	22°16'11.72807"	P-359	23	82°48'21.33827"	22°15'53.32206"
P-310	17	82°52'08.65659"	22°16'12.20009"	P-360	23	82°48'54.48294"	22°15'38.65352"
P-311	17	82°52'15.59315"	22°16'11.45730"	P-361	23	82°49'01.18973"	22°15'37.29753"
P-312	17	82°52'19.55577"	22°16'10.80093"	P-362	23	82°49'03.49475"	22°15'37.42977"
P-313	18	82°51'11.52223"	22°16'06.08919"	P-363	24	82°40'46.94144"	22°13'26.90518"

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Point	Patch	Longitud in D:M:S	Latitud i D:M:S	Point	Patch	Longitud in D:M:S	Latitud i D:M:S
P-314	18	82°51'07.67204"	22°16'06.26602"	P-364	24	82°40'44.50508"	22°13'32.78367"
P-315	18	82°51'14.52320"	22°16'05.96234"	P-365	24	82°40'43.99928"	22°13'39.25660"
P-316	18	82°51'16.33425"	22°16'05.94130"	P-366	24	82°40'43.01256"	22°13'45.69178"
P-317	19	82°50'54.87985"	22°16'06.57252"	P-367	24	82°40'42.63822"	22°13'52.17848"
P-318	19	82°50'47.96425"	22°16'07.22920"	P-368	24	82°40'42.10715"	22°13'58.65384"
P-319	19	82°50'40.98233"	22°16'07.09218"	P-369	24	82°40'42.10157"	22°13'58.83576"
P-320	19	82°50'34.00879"	22°16'06.75754"	P-370	24	82°39'26.29111"	22°15'19.36112"
P-321	19	82°50'27.03687"	22°16'06.40162"	P-371	24	82°39'26.80292"	22°15'19.19922"
P-322	19	82°50'29.18808"	22°16'06.54039"	P-372	25	82°39'19.95703"	22°13'10.74558"
P-323	19	82°50'36.16306"	22°16'06.87668"	P-373	25	82°39'18.32918"	22°13'04.45304"
P-324	19	82°50'43.14049"	22°16'07.13434"	P-374	25	82°39'17.80552"	22°12'58.00512"
P-325	19	82°50'50.12319"	22°16'07.18039"	P-375	25	82°39'18.70395"	22°12'51.59184"
P-326	19	82°50'54.87980"	22°16'06.55594"	P-376	25	82°39'20.37155"	22°12'45.28911"
P-327	20	82°50'10.75429"	22°15'54.57303"	P-377	25	82°39'22.59915"	22°12'39.12736"
P-328	20	82°50'06.66173"	22°15'49.30567"	P-378	25	82°39'25.50210"	22°12'33.24604"
P-329	20	82°50'02.52635"	22°15'44.07273"	P-379	25	82°39'27.91305"	22°12'27.16799"
P-330	20	82°49'58.19846"	22°15'38.99786"	P-380	25	82°39'31.70950"	22°12'22.05383"
P-331	20	82°50'02.34890"	22°15'43.83905"	P-381	25	82°39'37.09681"	22°12'18.33702"
P-332	20	82°50'06.50563"	22°15'49.05753"	P-382	25	82°39'40.60836"	22°12'12.76405"
P-333	20	82°50'10.59969"	22°15'54.32396"	P-383	25	82°39'41.90947"	22°12'06.54317"
P-334	20	82°50'11.06029"	22°15'54.99742"	P-384	25	82°39'41.00806"	22°12'04.19890"
P-335	21	82°50'11.51394"	22°15'04.19051"	P-385	25	82°39'18.54002"	22°13'26.08598"
P-336	21	82°50'05.33594"	22°15'07.21613"	P-386	25	82°39'19.09040"	22°13'19.60504"
P-337	21	82°50'02.40783"	22°15'12.03710"	P-387	25	82°39'19.69145"	22°13'13.12786"
P-338	21	82°49'57.13028"	22°15'15.93710"	P-388	25	82°39'19.95914"	22°13'10.67524"
P-339	21	82°49'53.26584"	22°15'21.32040"	P-389	26	82°41'21.24594"	22°09'05.46985"
P-340	21	82°49'54.26868"	22°15'24.93141"	P-390	26	82°41'16.21190"	22°09'09.80103"
P-341	21	82°49'54.93164"	22°15'19.17162"	P-391	26	82°41'09.73410"	22°09'12.12815"
P-342	21	82°49'59.84939"	22°15'14.71297"	P-392	26	82°41'03.12321"	22°09'14.05824"
P-343	21	82°50'02.33598"	22°15'09.61691"	P-393	26	82°40'57.30023"	22°09'17.27753"
P-344	21	82°50'08.15830"	22°15'06.21824"	P-394	27	82°45'06.04553"	22°08'03.26868"
P-345	21	82°50'11.70693"	22°15'04.47692"	P-395	27	82°45'02.96804"	22°07'57.69686"
P-346	21	82°50'11.70693"	22°15'04.47692"	P-396	27	82°44'58.76828"	22°07'52.67894"

*Chhattisgarh BharatNet Phase-II Project*

Point	Patch	Longitud in D:M:S	Latitud i D:M:S	Point	Patch	Longitud in D:M:S	Latitud i D:M:S
P-347	21	82°50'15.94179"	22°14'59.40257"	P-397	27	82°44'56.88047"	22°07'46.43743"
P-348	21	82°50'13.04007"	22°15'02.83497"	P-398	27	82°44'57.67328"	22°07'40.07009"
P-349	21	82°50'19.58352"	22°14'50.93321"	P-399	27	82°44'58.24263"	22°07'33.71471"
P-350	21	82°50'18.22770"	22°14'54.85094"	P-400	27	82°44'57.08720"	22°07'27.54724"
P-401	27	82°44'55.91035"	22°07'21.22762"	P-451	30	82°47'37.75425"	22°11'09.63780"
P-402	27	82°44'55.57014"	22°07'18.18182"	P-452	30	82°47'22.12942"	22°11'23.03199"
P-403	28	82°48'21.24271"	22°10'13.00895"	P-453	30	82°47'39.24007"	22°11'09.03031"
P-404	28	82°48'14.26295"	22°10'12.94036"	P-454	31	82°47'40.55361"	22°12'46.48747"
P-405	28	82°48'07.30898"	22°10'13.49017"	P-455	31	82°47'24.59387"	22°12'31.62626"
P-406	28	82°48'00.40387"	22°10'14.36632"	P-456	31	82°47'24.90576"	22°12'31.56337"
P-407	28	82°47'55.78368"	22°10'19.09337"	P-457	31	82°48'12.48249"	22°12'16.99560"
P-408	28	82°47'49.88034"	22°10'21.49220"	P-458	31	82°48'16.18662"	22°12'14.79978"
P-409	28	82°47'44.83285"	22°10'18.10339"	P-459	31	82°47'37.67306"	22°12'29.76926"
P-410	28	82°47'39.74559"	22°10'13.80332"	P-460	31	82°47'41.82064"	22°12'29.13530"
P-411	28	82°47'34.13732"	22°10'09.95369"	P-461	31	82°47'41.82064"	22°12'29.13530"
P-412	28	82°47'28.29764"	22°10'06.44248"	P-462	31	82°47'47.87897"	22°12'29.77926"
P-413	28	82°47'23.49508"	22°10'04.30985"	P-463	31	82°47'30.54194"	22°12'30.82224"
P-414	29	82°49'23.62516"	22°10'59.13486"	P-464	31	82°47'37.67306"	22°12'29.76926"
P-415	29	82°49'26.38019"	22°11'04.99305"	P-465	32	82°49'56.95581"	22°12'32.96350"
P-416	29	82°49'28.63418"	22°11'11.10132"	P-466	32	82°49'58.62803"	22°12'30.92283"
P-417	29	82°49'33.46265"	22°11'15.69686"	P-467	32	82°49'56.95969"	22°12'32.94215"
P-418	29	82°49'37.10932"	22°11'20.46248"	P-468	32	82°49'34.71855"	22°12'46.67303"
P-419	29	82°49'35.18637"	22°11'25.83621"	P-469	32	82°49'39.93857"	22°12'45.02828"
P-420	29	82°49'36.31710"	22°11'32.16077"	P-470	32	82°49'48.51087"	22°12'37.86328"
P-421	29	82°49'38.08689"	22°11'37.11856"	P-471	32	82°49'43.22988"	22°12'42.07660"
P-422	29	82°49'44.57147"	22°11'38.67110"	P-472	32	82°49'43.18207"	22°12'42.13607"
P-423	29	82°49'51.26976"	22°11'39.12547"	P-473	32	82°49'48.45007"	22°12'37.90258"
P-424	29	82°49'58.13850"	22°11'38.25483"	P-474	32	82°49'51.22207"	22°12'36.75146"
P-425	29	82°50'04.34881"	22°11'37.63563"	P-475	32	82°49'27.53088"	22°12'54.03366"
P-426	29	82°50'04.09000"	22°11'43.34079"	P-476	32	82°49'28.80132"	22°12'51.68931"
P-427	29	82°50'10.33894"	22°11'45.99467"	P-477	32	82°49'31.71284"	22°12'48.27478"
P-428	29	82°50'10.48394"	22°11'48.11234"	P-478	33	82°50'35.63375"	22°13'11.87103"
P-429	29	82°49'21.12560"	22°10'41.01703"	P-479	33	82°50'42.17981"	22°13'11.76030"

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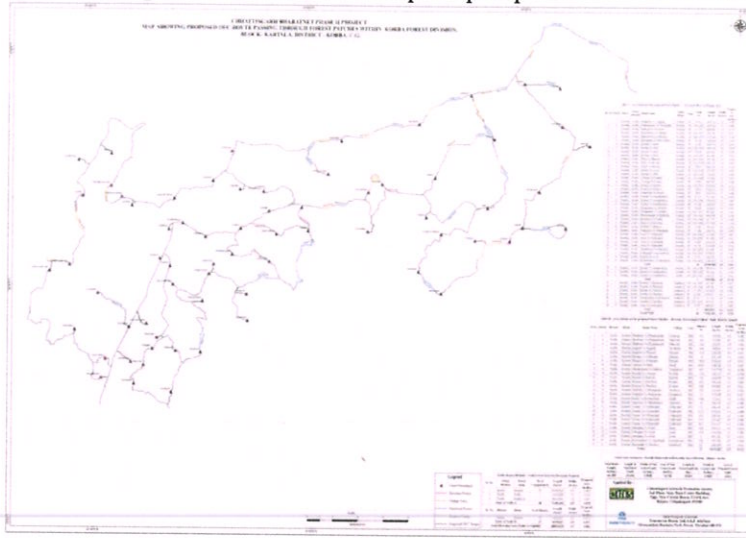
Point	Patch	Longitud in D:M:S	Latitud i D:M:S	Point	Patch	Longitud in D:M:S	Latitud i D:M:S
P-430	29	82°49'21.83090"	22°10'34.69422"	P-480	33	82°50'48.05634"	22°13'10.02806"
P-431	29	82°49'22.19540"	22°10'34.06108"	P-481	33	82°50'52.90391"	22°13'14.50358"
P-432	29	82°49'22.55700"	22°10'55.10647"	P-482	33	82°50'58.76016"	22°13'15.75037"
P-433	29	82°49'20.28076"	22°10'49.31030"	P-483	33	82°51'01.29906"	22°13'15.94589"
P-434	29	82°49'20.90123"	22°10'42.88543"	P-484	33	82°50'54.55181"	22°13'16.26865"
P-435	29	82°49'21.12560"	22°10'41.01703"	P-485	33	82°50'49.60123"	22°13'11.88995"
P-436	29	82°49'23.62516"	22°10'59.13486"	P-486	33	82°50'44.10625"	22°13'10.25646"
P-437	29	82°49'23.40562"	22°10'32.07642"	P-487	33	82°50'38.14997"	22°13'12.20884"
P-438	29	82°49'26.21758"	22°10'26.16099"	P-488	33	82°50'35.61719"	22°13'11.85557"
P-439	29	82°49'26.42195"	22°10'19.70963"	P-489	34	82°53'22.49419"	22°14'08.89592"
P-440	29	82°49'29.32915"	22°10'14.49914"	P-490	34	82°53'18.74841"	22°14'13.37080"
P-441	29	82°49'34.34652"	22°10'10.18629"	P-491	34	82°53'14.75390"	22°14'18.69796"
P-442	29	82°49'40.30127"	22°10'07.12482"	P-492	34	82°53'10.23678"	22°14'23.62521"
P-443	29	82°49'34.22259"	22°10'05.10545"	P-493	34	82°53'05.23254"	22°14'28.15988"
P-444	29	82°49'27.70915"	22°10'03.17132"	P-494	34	82°52'59.57696"	22°14'31.88811"
P-445	29	82°49'22.44147"	22°10'00.98223"	P-495	34	82°52'55.49250"	22°14'29.26951"
P-446	29	82°49'21.65904"	22°09'54.78821"	P-496	34	82°52'54.28575"	22°14'22.93995"
P-447	29	82°49'21.09696"	22°09'53.77861"	P-497	34	82°52'53.15892"	22°14'16.54879"
P-448	30	82°47'25.50560"	22°11'21.36621"	P-498	34	82°52'50.58475"	22°14'10.51419"
P-449	30	82°47'29.68576"	22°11'16.15969"	P-499	34	82°52'48.11818"	22°14'04.44232"
P-450	30	82°47'34.38570"	22°11'11.45484"	P-500	34	82°52'47.37935"	22°14'00.92849"
P-501	34	82°51'36.57784"	22°13'18.19608"	P-510	34	82°52'46.18243"	22°13'58.94049"
P-502	34	82°51'30.30017"	22°13'17.47147"	P-511	34	82°52'41.62835"	22°13'51.55926"
P-503	34	82°51'23.86196"	22°13'19.20143"	P-512	35	82°53'33.49928"	22°13'58.22986"
P-504	34	82°51'17.16899"	22°13'20.19442"	P-513	35	82°53'37.81806"	22°13'54.82231"
P-505	34	82°51'21.50148"	22°13'18.94544"	P-514	35	82°53'35.93963"	22°13'55.79492"
P-506	34	82°51'28.18802"	22°13'18.57908"	P-515	35	82°53'48.92029"	22°13'53.71412"
P-507	34	82°51'34.75956"	22°13'16.86834"	P-516	35	82°53'43.50935"	22°13'53.92444"
P-508	34	82°51'36.55611"	22°13'18.19892"	P-517	35	82°53'50.48498"	22°13'53.62668"
P-509	34	82°52'41.66956"	22°13'54.10327"	P-518	35	82°53'54.15322"	22°13'53.65040"

  
**वनमण्डलधिकारी**  
**कोरबा वनमण्डल, कोरबा**



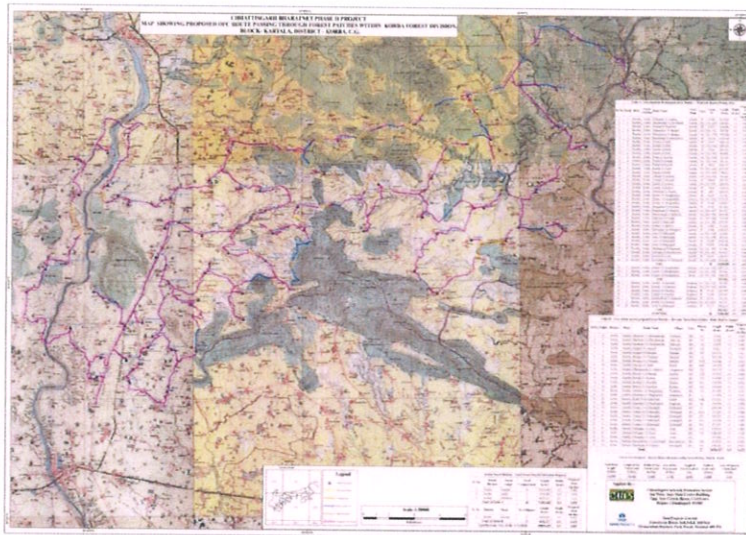
5.3. Geo-Referenced Maps of the Proposed Route (Annexure-3)

5.3.1. Map showing Geo-reference map of proposed OFC Route



Geo-Referenced Maps of Forest Patched with in Korba Forest Division

5.3.2. Map showing proposed OFC Route on Toposheet map on 1:50,000 scale.



Geo-Referenced Toposheet Map of Forest Kartala Block in Korba Forest Division.

२०२२  
वनमण्डलाधिकारी  
कोरबा वनमण्डल, कोरबा

