

CHHATTISGARH BHARATNET PHASE-II PROJECT
LIDAR/DGPS SURVEY REPORT FOR MAHASAMUND FOREST
DIVISION FOR DIVERSION OF PROPOSED OFC ROUTES

Forest Division : MAHASAMUND
Forest Land (RF/PF/OA) : 5.549 Ha.
Rev. Forest Land : 0.374 Ha.
Total Proposed Diversion Area : 5.923 Ha.
Block : BASNA, PITHORA AND SARAIPALI
District : MAHASAMUND (C.G.)

Applicant -



Chhattisgarh Infotech Promotion Society (CHiPS)
Raipur (Chhattisgarh)

Submitted By -



Tata Projects Limited, Raipur (Chhattisgarh)



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1. Introduction and Background

1.1. Background

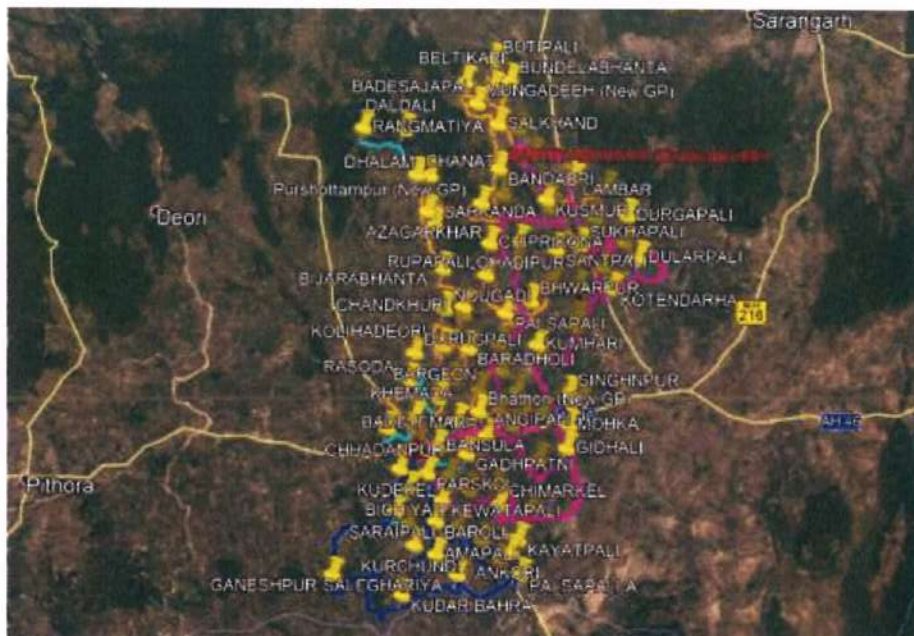
The Government of Chhattisgarh intends to setup an Optical Fibre Cable Network from the Block Head Quarters to Gram Panchayats to provide high speed broadband connectivity by connecting the 85 Blocks, 5987 Gram Panchayats across the State. The proposed network architecture for BharatNet Phase-II project 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.

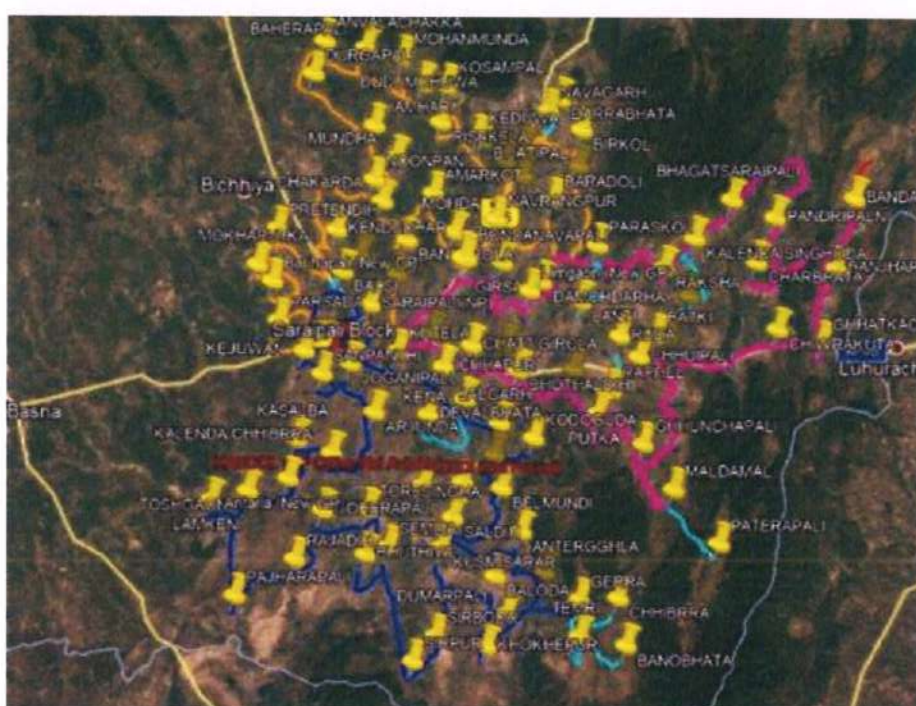
The Chhattisgarh Infotech Promotion Society (CHIPS) has selected an implementation partner **“Tata Project Limited”** for BharatNet Phase-II Project. The project has been conceived with the ambitious vision of providing connectivity to the yet unreached blocks in Chhattisgarh and entails massive investment 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 Basna, Pithora and Saraipali block with in Mahasamund Forest Division.



OFC Cable Proposed Routes in Basna Block in Mahasamund Forest Division.



OFC Cable Proposed Routes in Saraipali Block in Mahasamund Forest Division.

1.3. Location

The proposed OFC Cable route in Mahasamund Forest Division (The OFC route Basna, Pithora and Saraipali Block; District: Mahasamund). The Proposed OFC route length is approx. 427.820km in Basna Block, 565.674 km in Pithora Block and 421.515 km in Saraipali Block hence Total route length is 1415.009 km. The survey site passes through forest ranges Basna, Pithora and Saraipali of Mahasamund Forest Division. The OFC Cable route is covered under Survey of India Toposheets 64 K07, 64 K08, 64 K11, 64 K12, 64 K15, and 64 K16 and 64 O03, 64 O04, and 64 O07 on RF 1:50000.

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 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 radios 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



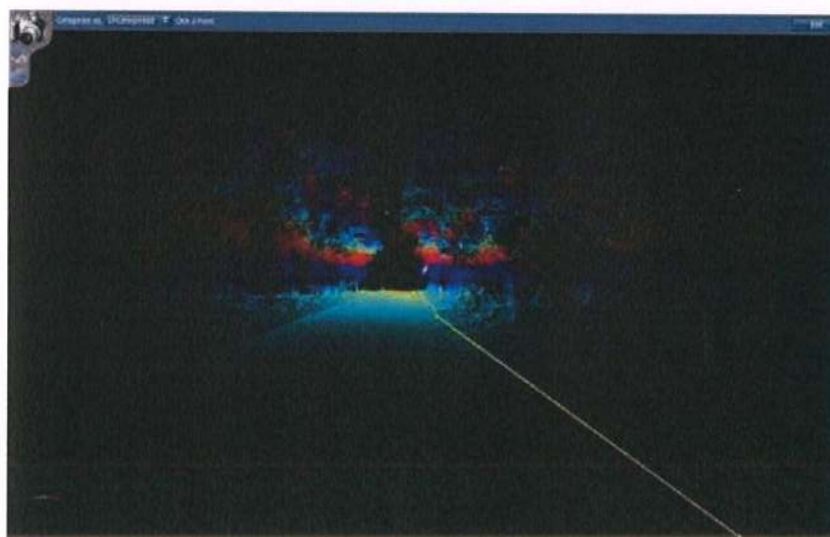
Final DRS / GIS Map

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.



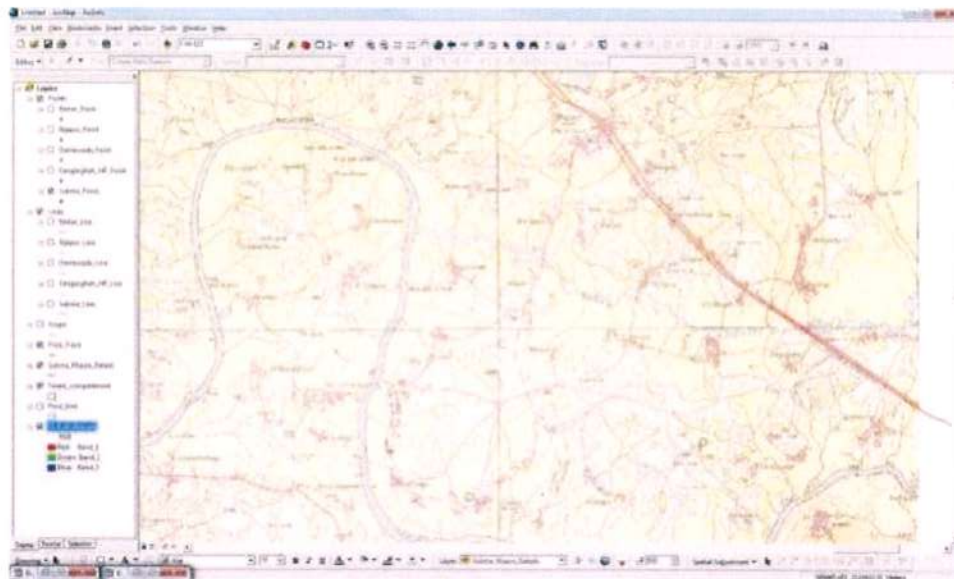
Proposed OFC Line on LiDAR Data (with Panoramic Imagery)



Proposed OFC Line on LiDAR Data only

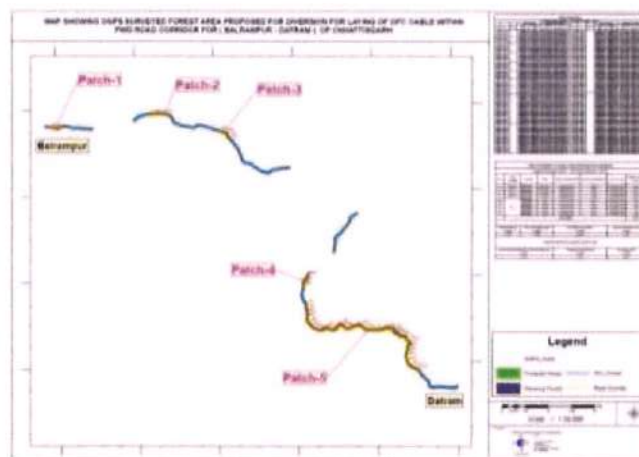
4.5. Geo-referencing of Maps:

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)



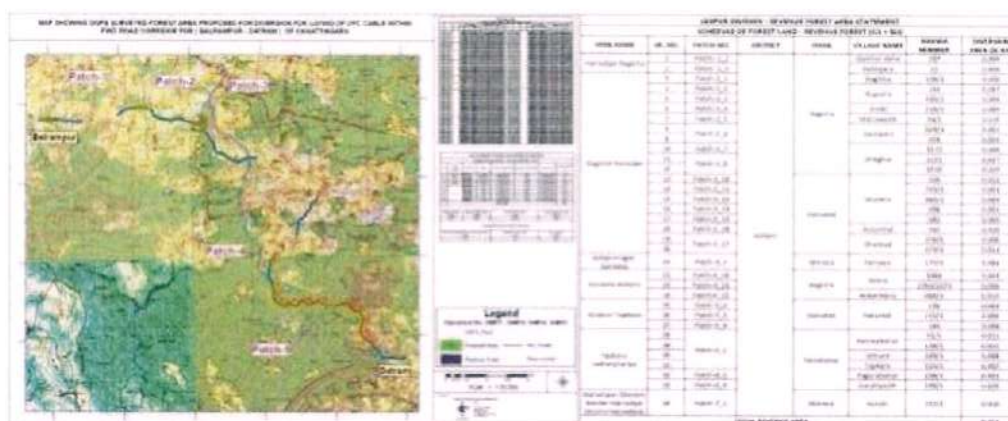
4.6. Creation of Vector Data for Forest Diversion:

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.



5. DGPS Survey Results

The total OFC route length is approx. 1415.009 km Basna, Pithora and Saraipali block of Mahasamund District. Out of this 1296.540 km OFC route length is passing through non-forest land and 118.469 km OFC route length is passing through Forest Patches hence the proposed forest area for diversion is 5.923 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 – Basna, Pithoua and Saraipali Block in Mahasamund Forest Division, District - Mahasamund						
Total Route Length (in K.M)	Length of Non Forest Land(in K.M)	Width of Non Forest Land(in K.M)	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.)
1415.009	1296.540	0.0005	64.827	118.469	0.0005	5.923

Mahasamund 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	Mahasamund	Basna	46	20245.107	0.5	1.013			
2	Mahasamund	Pithoura	97	58421.903	0.5	2.920			
3	Mahasamund	Saraipali	55	32320.678	0.5	1.616			
Total of Table A							110987.688	0.5	5.549
Sl. No.	District	Block	No of Khasra	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)			
1	Mahasamund	Basna	1	121.000	0.5	0.006			
2	Mahasamund	Pithoura	39	7359.870	0.5	0.368			
Total of Table B							7480.870	0.5	0.374
Total Diversion Area (Table A+TableB)							118468.558	0.5	5.923

Divisional Forest Officer
Mahasamund General Division

उप वनमण्डलाधिकारी (सा.)
सरायपाली उपवनमण्डल
सरायपाली (छ.ग.)

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पिथौरा उपवनमण्डल
पिथौरा (छ.ग.)



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Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block Name	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
1	35	Basna	Mahasamund	Basna To Kudekel	Basna	RF	294	1860.291	0.5	0.094
2	35	Basna	Mahasamund	Basna To Kudekel	Basna	RF	294	813.386	0.5	0.042
3	36	Basna	Mahasamund	Basna To Kudekel	Basna	RF	294	63.120	0.5	0.003
4	37	Basna	Mahasamund	Basna To Kudekel	Basna	RF	295	888.241	0.5	0.044
5	38	Basna	Mahasamund	Basna To Kudekel	Basna	RF	296	193.909	0.5	0.010
6	39	Basna	Mahasamund	Basna To Kudekel	Basna	RF	297	402.181	0.5	0.020
7	41	Basna	Mahasamund	Basna To Kudekel	Basna	RF	299	355.956	0.5	0.018
8	42	Basna	Mahasamund	Basna To Kudekel	Basna	RF	299	148.030	0.5	0.007
9	43	Basna	Mahasamund	Basna To Kudekel	Basna	RF	300	1068.595	0.5	0.053
10	43	Basna	Mahasamund	Basna To Kudekel	Basna	RF	300	1280.492	0.5	0.064
11	44	Basna	Mahasamund	Pithora To Sirko	Basna	RF	301	560.399	0.5	0.028
12	70	Saraipali	Mahasamund	Saraipali To Noonpani	Basna	RF	341	579.312	0.5	0.029
13	70	Saraipali	Mahasamund	Saraipali To Noonpani	Basna	RF	341	589.921	0.5	0.029
14	72	Basna	Mahasamund	Basna To Bichiyas	Basna	RF	340	355.783	0.5	0.018
15	73	Basna	Mahasamund	Basna To Bichiyas	Basna	RF	340	263.947	0.5	0.014
16	74	Basna	Mahasamund	Basna To Barsenpali	Basna	RF	339	739.253	0.5	0.037

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Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block Name	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
17	74	Basna	Mahasamund	Basna To Barsenpali	Basna	RF	339	443.303	0.5	0.022
18	74	Basna	Mahasamund	Basna To Durgapali	Basna	RF	339	29.374	0.5	0.001
19	74	Basna	Mahasamund	Basna To Durgapali	Basna	RF	339	85.708	0.5	0.004
20	74	Basna	Mahasamund	Basna To Durgapali	Basna	RF	339	632.969	0.5	0.032
21	74	Basna	Mahasamund	Basna To Sagarpali	Basna	RF	339	158.504	0.5	0.008
22	75	Basna	Mahasamund	Basna To Santpali	Basna	RF	338	120.360	0.5	0.006
23	76	Basna	Mahasamund	Basna To Sukhapali	Basna	RF	333	300.546	0.5	0.015
24	77	Basna	Mahasamund	Basna To Lambar	Basna	RF	333	616.201	0.5	0.031
25	77	Basna	Mahasamund	Basna To Sagarpali	Basna	RF	333	582.461	0.5	0.029
26	78	Basna	Mahasamund	Basna To Madhopali	Basna	RF	333	452.667	0.5	0.023
27	79	Basna	Mahasamund	Basna To Madhopali	Basna	RF	326	454.125	0.5	0.023
28	80	Basna	Mahasamund	Basna To Badesajapali	Basna	RF	325	57.833	0.5	0.003
29	81	Basna	Mahasamund	Basna To Beltikari	Basna	RF	322	960.091	0.5	0.048
30	81	Basna	Mahasamund	Basna To Beltikari	Basna	RF	322	241.573	0.5	0.012
31	81	Basna	Mahasamund	Basna To Beltikari	Basna	RF	322	45.830	0.5	0.002
32	81	Basna	Mahasamund	Basna To Mungadeeh	Basna	RF	322	49.918	0.5	0.002
33	82	Basna	Mahasamund	Basna To Salkhand	Basna	RF	332	722.718	0.5	0.002

Chhattisgarh BharatNet Phase-II Project

Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block Name	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
34	83	Basna	Mahasamund	Basna To Karnapali	Basna	RF	333	38.628	0.5	0.002
35	83	Basna	Mahasamund	Basna To Sukhapali	Basna	RF	333	326.176	0.5	0.016
36	84	Basna	Mahasamund	Basna To Khogsa	Basna	RF	331	93.634	0.5	0.005
37	84	Basna	Mahasamund	Basna To Kusmur	Basna	RF	331	88.481	0.5	0.004
38	85	Basna	Mahasamund	Basna To Karnapali	Basna	RF	329	405.160	0.5	0.020
39	85	Basna	Mahasamund	Basna To Karnapali	Basna	RF	330	192.264	0.5	0.010
40	86	Basna	Mahasamund	Basna To Jamdarha	Basna	RF	319	126.341	0.5	0.006
41	87	Basna	Mahasamund	Basna To Jamdarha	Basna	RF	318	50.019	0.5	0.003
42	88	Basna	Mahasamund	Basna To Daldali	Basna	RF	308	42.626	0.5	0.002
43	88	Basna	Mahasamund	Basna To Daldali	Basna	RF	308	815.332	0.5	0.041
44	88	Basna	Mahasamund	Basna To Daldali	Basna	RF	313	487.001	0.5	0.024
45	93	Basna	Mahasamund	Basna To Azagarkhar	Basna	RF	303	1302.712	0.5	0.065
46	93	Basna	Mahasamund	Basna To Azagarkhar	Basna	RF	303	159.736	0.5	0.008
Total-							46	20245.107	0.5	1.013
47	1	Pithora	Mahasamund	Kumharimuda To Gadbedha	Pithora	PF	212	461.205	0.5	0.023
48	1	Pithora	Mahasamund	Kumharimuda To Gadbedha	Pithora	PF	212	198.577	0.5	0.010
49	1	Pithora	Mahasamund	Kumharimuda To Gadbedha	Pithora	PF	212	1442.024	0.5	0.072

Chhattisgarh BharatNet Phase-II Project

Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block Name	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
50	1	Pithora	Mahasamund	Kumharimuda To Gadbedha	Pithora	PF	213	371.759	0.5	0.019
51	2	Pithora	Mahasamund	Kumharimuda To Gadbedha	Pithora	PF	213	394.430	0.5	0.020
52	3	Pithora	Mahasamund	Ghunch To Kashibahara	Pithora	PF	238	513.985	0.5	0.026
53	3	Pithora	Mahasamund	Ghunch To Kashibahara	Pithora	PF	238	72.502	0.5	0.004
54	4	Pithora	Mahasamund	Mudhipar To Jammhar	Pithora	PF	241	1270.064	0.5	0.064
55	4	Pithora	Mahasamund	Mudhipar To Jammhar	Pithora	PF	241	1228.355	0.5	0.061
56	5	Pithora	Mahasamund	Bhithidih To Amlidih	Pithora	PF	243	1207.164	0.5	0.060
57	5	Pithora	Mahasamund	Bhithidih To Amlidih	Pithora	PF	243	338.510	0.5	0.017
58	6	Pithora	Mahasamund	Lahroud To Kishanpur	Pithora	OA	490	161.914	0.5	0.008
59	7	Pithora	Mahasamund	Pithora To Gopalpur	Pithora	OA	478	335.633	0.5	0.017
60	8	Pithora	Mahasamund	Pithora To Gopalpur	Pithora	OA	477	585.313	0.5	0.029
61	9	Pithora	Mahasamund	Pithora To Gopalpur	Pithora	PF	247	1143.091	0.5	0.057
62	9	Pithora	Mahasamund	Pithora To Gopalpur	Pithora	PF	247	126.979	0.5	0.006
63	10	Pithora	Mahasamund	Remda To Lakhagarh	Pithora	PF	247	511.981	0.5	0.026
64	10	Pithora	Mahasamund	Remda To Lakhagarh	Pithora	PF	247	629.003	0.5	0.031
65	10	Pithora	Mahasamund	Sagondhap To Pithora	Pithora	PF	247	193.999	0.5	0.010
66	11	Pithora	Mahasamund	Barekelkhurd To Pilvapali	Pithora	OA	489	323.409	0.5	0.016



Chhattisgarh BharatNet Phase-II Project

Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block Name	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
67	12	Pithora	Mahasamund	Barekelkhurd To Pilvapali	Pithora	PF	236	894.085	0.5	0.045
68	12	Pithora	Mahasamund	Barekelkhurd To Pilvapali	Pithora	OA	487	274.728	0.5	0.014
69	13	Pithora	Mahasamund	Barekelkhurd To Pilvapali	Pithora	PF	237	419.466	0.5	0.021
70	14	Pithora	Mahasamund	Thakurdiyakhurd To Barekelkhurd	Pithora	PF	232	750.941	0.5	0.038
71	15	Pithora	Mahasamund	Sukhipali To Dumarpali	Pithora	PF	229	380.270	0.5	0.019
72	15	Pithora	Mahasamund	Sukhipali To Dumarpali	Pithora	PF	229	1008.327	0.5	0.050
73	15	Pithora	Mahasamund	Sukhipali To Dumarpali	Pithora	PF	230	92.440	0.5	0.005
74	16	Pithora	Mahasamund	Bhokludih To Pithora	Pithora	PF	253	48.649	0.5	0.002
75	16	Pithora	Mahasamund	Memra To Bhokludih	Pithora	PF	253	49.443	0.5	0.002
76	16	Pithora	Mahasamund	Remda To Lakhagarh	Pithora	PF	253	723.852	0.5	0.036
77	16	Pithora	Mahasamund	Remda To Lakhagarh	Pithora	PF	253	821.311	0.5	0.041
78	16	Pithora	Mahasamund	Sagondhap To Pithora	Pithora	PF	253	844.141	0.5	0.042
79	16	Pithora	Mahasamund	Sagondhap To Pithora	Pithora	PF	253	702.139	0.5	0.035
80	17	Pithora	Mahasamund	Ansula To Charbhanta	Pithora	OA	483	31.140	0.5	0.002
81	17	Pithora	Mahasamund	Charbhanta To Ansula	Pithora	OA	483	10.959	0.5	0.001
82	17	Pithora	Mahasamund	Charbhantha To Chhuwali Patera	Pithora	OA	483	298.751	0.5	0.015
83	17	Pithora	Mahasamund	Charbhantha To Chhuwali Patera	Pithora	OA	483	452.015	0.5	0.023

Chhattisgarh BharatNet Phase-II Project

Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block Name	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
84	17	Pithora	Mahasamund	Charbhantha To Chhuwali Patera	Pithora	OA	483	119.492	0.5	0.006
85	18	Pithora	Mahasamund	Sakankara To Bijemal	Pithora	RF	259	794.515	0.5	0.040
86	18	Pithora	Mahasamund	Sakankara To Bijemal	Pithora	RF	259	170.783	0.5	0.009
87	19	Pithora	Mahasamund	Badetemari To Devsaral	Pithora	RF	258P	739.084	0.5	0.037
88	19	Pithora	Mahasamund	Badetemari To Devsaral	Pithora	RF	258P	674.698	0.5	0.034
89	19	Pithora	Mahasamund	Devsaral To Badetemari	Pithora	RF	258P	113.355	0.5	0.006
90	19	Pithora	Mahasamund	Sakankara To Bijemal	Pithora	RF	258P	909.716	0.5	0.045
91	19	Pithora	Mahasamund	Sakankara To Bijemal	Pithora	RF	258P	302.362	0.5	0.015
92	19	Pithora	Mahasamund	Sakankara To Bijemal	Pithora	RF	258P	564.572	0.5	0.028
93	20	Pithora	Mahasamund	Charbhantha To Chhuwali Patera	Pithora	RF	257	1191.518	0.5	0.060
94	20	Pithora	Mahasamund	Charbhantha To Chhuwali Patera	Pithora	RF	257	1371.446	0.5	0.069
95	20	Pithora	Mahasamund	Remda To Lakhagarh	Pithora	RF	257	731.594	0.5	0.037
96	20	Pithora	Mahasamund	Remda To Lakhagarh	Pithora	RF	257	1850.934	0.5	0.092
97	21	Pithora	Mahasamund	Matidarha To Sagondhap	Pithora	RF	254P	1003.410	0.5	0.050
98	21	Pithora	Mahasamund	Matidarha To Sagondhap	Pithora	RF	254P	666.845	0.5	0.033
99	21	Pithora	Mahasamund	Rikhadadar To Matidarha	Pithora	RF	254P	210.069	0.5	0.011
100	21	Pithora	Mahasamund	Rikhadadar To Matidarha	Pithora	RF	254P	583.410	0.5	0.028

Chhattisgarh BharatNet Phase-II Project

Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block Name	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
101	22	Pithora	Mahasamund	Jarabharan To Parasvani	Pithora	RF	289	696.081	0.5	0.035
102	22	Pithora	Mahasamund	Parasvani To Bagardarha	Pithora	RF	289	718.992	0.5	0.036
103	22	Pithora	Mahasamund	Parasvani To Bagardarha	Pithora	RF	289	29.718	0.5	0.001
104	23	Pithora	Mahasamund	Katangtarai To Chhoteloram	Pithora	RF	292	738.007	0.5	0.036
105	24	Pithora	Mahasamund	Katangtarai To Lari Pur	Pithora	RF	292	748.885	0.5	0.037
106	24	Pithora	Mahasamund	Katangtarai To Lari Pur	Pithora	RF	292	939.052	0.5	0.047
107	25	Pithora	Mahasamund	Katangtarai To Lari Pur	Pithora	RF	291	356.305	0.5	0.018
108	26	Pithora	Mahasamund	Katangtarai To Lari Pur	Pithora	RF	291	192.839	0.5	0.010
109	27	Pithora	Mahasamund	Katangtarai To Lari Pur	Pithora	RF	578	198.645	0.5	0.010
110	28	Pithora	Mahasamund	Lari Pur To Parasvani	Pithora	RF	290	1327.318	0.5	0.066
111	28	Pithora	Mahasamund	Lari Pur To Parasvani	Pithora	RF	290	251.620	0.5	0.013
112	29	Pithora	Mahasamund	Girna To Beldih	Pithora	PF	227	1765.707	0.5	0.088
113	30	Pithora	Mahasamund	Girna To Beldih	Pithora	PF	210	80.650	0.5	0.004
114	31	Pithora	Mahasamund	Beldih To Lilasar	Pithora	PF	209	1021.062	0.5	0.051
115	32	Pithora	Mahasamund	Charoda To Kodopali	Pithora	PF	206	800.000	0.5	0.040
116	32	Pithora	Mahasamund	Charoda To Kodopali	Pithora	PF	206	420.268	0.5	0.021
117	32	Pithora	Mahasamund	Kodopali To Navagaon Kala	Pithora	PF	206	122.881	0.5	0.006

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Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block Name	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
118	33	Pithora	Mahasamund	Monhada To Bhurkoni	Pithora	PF	215	409.429	0.5	0.020
119	33	Pithora	Mahasamund	Monhada To Bhurkoni	Pithora	PF	215	1950.000	0.5	0.098
120	33	Pithora	Mahasamund	Monhada To Bhurkoni	Pithora	PF	215	71.489	0.5	0.004
121	34	Pithora	Mahasamund	Nayaparakala To Monhada	Pithora	PF	218	800.865	0.5	0.040
122	34	Pithora	Mahasamund	Nayaparakala To Monhada	Pithora	PF	218	324.760	0.5	0.016
123	40	Basna	Mahasamund	Kudekel To Kudaribahra	Pithora	RF	293	595.861	0.5	0.030
124	89	Pithora	Mahasamund	Jhagrendih To Limdarha	Pithora	RF	282	444.682	0.5	0.022
125	90	Pithora	Mahasamund	Jhagrendih To Limdarha	Pithora	RF	307	769.266	0.5	0.038
126	90	Pithora	Mahasamund	Jhagrendih To Limdarha	Pithora	RF	307	926.700	0.5	0.046
127	90	Pithora	Mahasamund	Jhagrendih To Limdarha	Pithora	RF	307	107.749	0.5	0.005
128	90	Pithora	Mahasamund	Limdarha To Rajpalpur	Pithora	RF	307	323.077	0.5	0.016
129	90	Pithora	Mahasamund	Rajpalpur To Limdarha	Pithora	RF	307	320.464	0.5	0.016
130	91	Pithora	Mahasamund	Jhagrendih To Limdarha	Pithora	RF	281	952.429	0.5	0.048
131	91	Pithora	Mahasamund	Jhagrendih To Limdarha	Pithora	RF	281	1363.899	0.5	0.068
132	92	Pithora	Mahasamund	Limdarha To Barekel	Pithora	RF	282	1483.514	0.5	0.074
133	94	Pithora	Mahasamund	Arangi To Bamhani	Pithora	PF	273	235.546	0.5	0.012
134	94	Pithora	Mahasamund	Arangi To Bamhani	Pithora	RF	275	377.948	0.5	0.019

Chhattisgarh BharatNet Phase-II Project

Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block Name	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
135	94	Pithora	Mahasamund	Arangi To Bamhani	Pithora	RF	275	146.643	0.5	0.007
136	95	Pithora	Mahasamund	Arangi To Bamhani	Pithora	RF	278	453.322	0.5	0.023
137	96	Pithora	Mahasamund	Arangi To Parghania Saraipali	Pithora	RF	274	471.069	0.5	0.024
138	97	Pithora	Mahasamund	Barnaidadar To Bheekhapali	Pithora	RF	268	397.217	0.5	0.020
139	97	Pithora	Mahasamund	Barnaidadar To Bheekhapali	Pithora	RF	268	1268.414	0.5	0.063
140	97	Pithora	Mahasamund	Jhagrendih To Barnaidadar	Pithora	RF	268	1238.627	0.5	0.062
141	98	Pithora	Mahasamund	Bijemal To Jhagrendih	Pithora	RF	268	77.058	0.5	0.004
142	98	Pithora	Mahasamund	Bijemal To Jhagrendih	Pithora	RF	268	1131.483	0.5	0.056
143	99	Pithora	Mahasamund	Jamjuda To Khursipar	Pithora	RF	285	62.005	0.5	0.003
Total-							97	58421.903	0.5	2.920
144	45	Saraipali	Mahasamund	Rajadih To Toshgaon	Saraipali	RF	344	1160.032	0.5	0.059
145	46	Saraipali	Mahasamund	Rajadih To Toshgaon	Saraipali	RF	344	391.796	0.5	0.020
146	47	Saraipali	Mahasamund	Kotdwari To Dumarpali	Saraipali	RF	364	313.593	0.5	0.016
147	47	Saraipali	Mahasamund	Saldih To Kotdwari	Saraipali	RF	364	573.585	0.5	0.029
148	48	Saraipali	Mahasamund	Maldamal To Paterapali	Saraipali	RF	406	321.449	0.5	0.016
149	48	Saraipali	Mahasamund	Maldamal To Paterapali	Saraipali	RF	406	1460.983	0.5	0.074
150	48	Saraipali	Mahasamund	Maldamal To Paterapali	Saraipali	RF	408	228.634	0.5	0.012

Chhattisgarh BharatNet Phase-II Project

Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block Name	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
151	49	Saraipali	Mahasamund	Chiwrakuta To Ghhunchapali	Saraipali	OA	496	1114.268	0.5	0.056
152	50	Saraipali	Mahasamund	Chhuiipali To Ruda	Saraipali	OA	498	817.964	0.5	0.041
153	51	Saraipali	Mahasamund	Chiwrakuta To Ghhunchapali	Saraipali	RF	420	35.694	0.5	0.002
154	51	Saraipali	Mahasamund	Chiwrakuta To Ghhunchapali	Saraipali	RF	421	661.258	0.5	0.034
155	52	Saraipali	Mahasamund	Pandripalni To Chiwrakuta	Saraipali	RF	431	97.538	0.5	0.005
156	52	Saraipali	Mahasamund	Pandripalni To Chiwrakuta	Saraipali	RF	431	276.624	0.5	0.014
157	52	Saraipali	Mahasamund	Pandripalni To Chiwrakuta	Saraipali	RF	432	180.834	0.5	0.001
158	52	Saraipali	Mahasamund	Pandripalni To Chiwrakuta	Saraipali	OA	527	745.038	0.5	0.038
159	53	Saraipali	Mahasamund	Pandripalni To Chiwrakuta	Saraipali	RF	435	127.224	0.5	0.001
160	53	Saraipali	Mahasamund	Pandripalni To Chiwrakuta	Saraipali	RF	435	1055.802	0.5	0.053
161	54	Saraipali	Mahasamund	Bandalimal To Banjhapali	Saraipali	OA	521	40.096	0.5	0.003
162	54	Saraipali	Mahasamund	Banjhapali To Chiwrakuta	Saraipali	OA	521	32.574	0.5	0.002
163	54	Saraipali	Mahasamund	Pandripalni To Chiwrakuta	Saraipali	OA	521	551.623	0.5	0.028
164	54	Saraipali	Mahasamund	Pandripalni To Chiwrakuta	Saraipali	OA	521	93.040	0.5	0.005
165	54	Saraipali	Mahasamund	Pandripalni To Chiwrakuta	Saraipali	OA	521	555.966	0.5	0.028
166	54	Saraipali	Mahasamund	Pandripalni To Chiwrakuta	Saraipali	OA	522	985.684	0.5	0.050
167	55	Saraipali	Mahasamund	Pandripalni To Chiwrakuta	Saraipali	OA	523	287.937	0.5	0.015

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Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block Name	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
168	56	Saraipali	Mahasamund	Bandalimal To Banjhapali	Saraipali	OA	524	329.864	0.5	0.017
169	56	Saraipali	Mahasamund	Banjhapali To Bandalimal	Saraipali	OA	524	330.472	0.5	0.017
170	57	Saraipali	Mahasamund	Pandripalini To Chiwrakuta	Saraipali	RF	430	1323.836	0.5	0.066
171	58	Saraipali	Mahasamund	Pandripalini To Chiwrakuta	Saraipali	RF	430	1449.100	0.5	0.073
172	59	Saraipali	Mahasamund	Kalenda Singhoda To Pandripalini	Saraipali	RF	429	257.337	0.5	0.013
173	60	Saraipali	Mahasamund	Kalenda Singhoda To Pandripalini	Saraipali	RF	428	965.958	0.5	0.048
174	61	Saraipali	Mahasamund	Bhagatsaraipali To Kalenda Singhoda	Saraipali	RF	427	105.414	0.5	0.005
175	61	Saraipali	Mahasamund	Kalenda Singhoda To Bhagatsaraipali	Saraipali	RF	427	108.095	0.5	0.005
176	61	Saraipali	Mahasamund	Kalenda Singhoda To Pandripalini	Saraipali	RF	427	1037.138	0.5	0.052
177	61	Saraipali	Mahasamund	Kalenda Singhoda To Pandripalini	Saraipali	RF	427	839.262	0.5	0.042
178	61	Saraipali	Mahasamund	Kalenda Singhoda To Pandripalini	Saraipali	RF	427	1752.498	0.5	0.087
179	62	Saraipali	Mahasamund	Paraskol To Kalenda Singhoda	Saraipali	RF	359	1235.801	0.5	0.062
180	63	Saraipali	Mahasamund	Paraskol To Kalenda Singhoda	Saraipali	RF	360	1350.176	0.5	0.068
181	64	Saraipali	Mahasamund	Paraskol To Lanti	Saraipali	RF	360	454.462	0.5	0.023
182	64	Saraipali	Mahasamund	Paraskol To Lanti	Saraipali	RF	360	1950.001	0.5	0.098
183	64	Saraipali	Mahasamund	Paraskol To Lanti	Saraipali	RF	360	443.657	0.5	0.022
184	65	Saraipali	Mahasamund	Damohdarha To Paraskol	Saraipali	RF	423	26.287	0.5	0.001



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Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block Name	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
185	65	Saraipali	Mahasamund	Damohdarha To Paraskol	Saraipali	RF	423	327.280	0.5	0.016
186	65	Saraipali	Mahasamund	Navrangpur To Kanwarpali	Saraipali	RF	423	287.766	0.5	0.014
187	65	Saraipali	Mahasamund	Navrangpur To Kanwarpali	Saraipali	RF	423	1520.107	0.5	0.076
188	66	Saraipali	Mahasamund	Navrangpur To Kanwarpali	Saraipali	RF	422	451.714	0.5	0.023
189	66	Saraipali	Mahasamund	Navrangpur To Kanwarpali	Saraipali	RF	423	18.162	0.5	0.001
190	67	Saraipali	Mahasamund	Damohdarha To Paraskol	Saraipali	OA	494	266.639	0.5	0.013
191	67	Saraipali	Mahasamund	Damohdarha To Paraskol	Saraipali	OA	494	1.721	0.5	0.001
192	67	Saraipali	Mahasamund	Navrangpur To Kanwarpali	Saraipali	OA	494	269.324	0.5	0.014
193	68	Saraipali	Mahasamund	Damohdarha To Paraskol	Saraipali	RF	358	384.192	0.5	0.020
194	69	Saraipali	Mahasamund	Girsa To Damohdarha	Saraipali	RF	358	575.840	0.5	0.028
195	69	Saraipali	Mahasamund	Girsa To Damohdarha	Saraipali	RF	358	992.068	0.5	0.050
196	69	Saraipali	Mahasamund	Girsa To Damohdarha	Saraipali	OA	512	470.959	0.5	0.024
197	71	Saraipali	Mahasamund	Jamahari To Mundha	Saraipali	RF	357	347.677	0.5	0.018
198	71	Saraipali	Mahasamund	Mundha To Jamahari	Saraipali	RF	357	338.635	0.5	0.017
Total-							55	32320.678	0.5	1.616
Grand Total-							198	110987.688	0.5	5.549

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Table B - Area statement ent 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	17	Mahasamund	Basna	Devsaral To Patandader	Kurmadih	BJJ	252	121.000	0.5	0.006
Total-							1	121.000	0.5	0.006
2	1	Mahasamund	Pithoura	Thakurdiyakhurd To Thakurdiya Kala	Thakurdaya Kalan	BJJ	565	75.894	0.5	0.004
3	9	Mahasamund	Pithoura	Rajasevyakhurd To Dongripali	Rajasewaiya Khurd	CJJ	688	98.163	0.5	0.005
4	10	Mahasamund	Pithoura	Dongripali To Barekelkhurd	Sewaiya Kalan	BJJ	568	376.623	0.5	0.018
5	11	Mahasamund	Pithoura	Dongripali To Pilvapali	Kaudiya	CJJ	197	54.666	0.5	0.003
6	11	Mahasamund	Pithoura	Dongripali To Pilvapali	Kaudiya	CJJ	199	628.585	0.5	0.031
7	12	Mahasamund	Pithoura	Dongripali To Pilvapali	Kaudiya	CJJ	553	84.538	0.5	0.004
8	12	Mahasamund	Pithoura	Dongripali To Pilvapali	Kaudiya	CJJ	548	694.320	0.5	0.035
9	13	Mahasamund	Pithoura	Dongripali To Pilvapali	Kaudiya	CJJ	144	354.626	0.5	0.017
10	15	Mahasamund	Pithoura	Sukhipali To Girna	Beldih	BJJ	953	80.808	0.5	0.004
11	15	Mahasamund	Pithoura	Sukhipali To Girna	Beldih	BJJ	947	144.856	0.5	0.007
12	15	Mahasamund	Pithoura	Sukhipali To Girna	Beldih	BJJ	501	160.153	0.5	0.008
13	18	Mahasamund	Pithoura	Bijemal To Badetemari	Badetemri Puranatuk	BJJ	41	71.928	0.5	0.004
14	18	Mahasamund	Pithoura	Bijemal To Badetemari	Badetemri Puranatuk	BJJ	44	203.389	0.5	0.010
15	18	Mahasamund	Pithoura	Jhagrendih To Pirada	Jhagrendih	CJJ	564	19.402	0.5	0.001

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Table B - Area statement ent 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.)
16	19	Mahasamund	Pithoura	Badetemari To Devsaral	Badetemri	BIJ	538	18.326	0.5	0.001
17	19	Mahasamund	Pithoura	Badetemari To Devsaral	Badetemri	BIJ	510	34.397	0.5	0.002
18	19	Mahasamund	Pithoura	Badetemari To Devsaral	Badetemri	BIJ	531	54.380	0.5	0.003
19	19	Mahasamund	Pithoura	Badetemari To Devsaral	Badetemri	BIJ	434	96.879	0.5	0.005
20	19	Mahasamund	Pithoura	Badetemari To Devsaral	Badetemri	BIJ	533	142.259	0.5	0.007
21	19	Mahasamund	Pithoura	Badetemari To Devsaral	Badetemri	CJJ	441	147.988	0.5	0.007
22	19	Mahasamund	Pithoura	Badetemari To Devsaral	Badetemri	BIJ	539	178.861	0.5	0.009
23	19	Mahasamund	Pithoura	Badetemari To Devsaral	Badetemri	BIJ	508	206.278	0.5	0.010
24	19	Mahasamund	Pithoura	Badetemari To Devsaral	Badetemri	BIJ	217	225.425	0.5	0.011
25	19	Mahasamund	Pithoura	Badetemari To Devsaral	Badetemri	BIJ	443	279.849	0.5	0.014
26	19	Mahasamund	Pithoura	Badetemari To Devsaral	Badetemri	BIJ	507	623.640	0.5	0.031
27	27	Mahasamund	Pithoura	Lari Pur To Chhoteloram	Beldih	CJJ	201	65.538	0.5	0.003
28	27	Mahasamund	Pithoura	Lari Pur To Chhoteloram	Laripur	CJJ	72	75.715	0.5	0.004
29	27	Mahasamund	Pithoura	Lari Pur To Chhoteloram	Laripur	BIJ	75	242.818	0.5	0.012
30	31	Mahasamund	Pithoura	Beldih To Lilasar	Beldih	BIJ	1066	18.494	0.5	0.001
31	31	Mahasamund	Pithoura	Beldih To Lilasar	Beldih	BIJ	1158	220.856	0.5	0.011
32	31	Mahasamund	Pithoura	Bundeli To Beldih	Beldih	BIJ	1063	21.672	0.5	0.001

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Table B - Area statement ent 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.)
33	31	Mahasamund	Pithoura	Bundeli To Beldih	Beldih	BJJ	1065	19.784	0.5	0.001
34	31	Mahasamund	Pithoura	Bundeli To Beldih	Beldih	BJJ	455	110.711	0.5	0.006
35	31	Mahasamund	Pithoura	Bundeli To Beldih	Beldih	BJJ	457	232.000	0.5	0.012
36	31	Mahasamund	Pithoura	Lilasar To Birajpali	Lilesar	BJJ	274	50.218	0.5	0.003
37	31	Mahasamund	Pithoura	Sukhipali To Girna	Beldih	BJJ	952	218.762	0.5	0.011
38	34	Mahasamund	Pithoura	Nayaparakala To Monhada	Nawapara Kalan	BJJ	535	230.506	0.5	0.012
39	34	Mahasamund	Pithoura	Nayaparakala To Monhada	Nawapara Kalan	BJJ	497	600.580	0.5	0.030
40	101	Mahasamund	Pithoura	Bhathori To Badetemari	Badetemiri	BJJ	1	195.983	0.5	0.010
Total-							39	7359.870	0.5	0.368
Grand Total-							40	7480.870	0.5	0.374

उप वनमण्डलाधिकारी (सा.)
सरायपाली उपवनमण्डल
सरायपाली (छ.ग.)

उप वनमण्डलाधिकारी (सा.)
विशेष उपवनमण्डल
पिथौरा (छ.ग.)

Divisional Forest Officer
Mahasamund General Division



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

Point	Patch	Latitude inD:M:S	Longitude inD:M:S	Point	Patch	Latitude inD:M:S	Longitude inD:M:S
P-1	1	21°08'15.69227"	82°28'53.37924"	P-51	5	21°18'28.80104"	82°29'21.17893"
P-2	1	21°08'18.94761"	82°28'59.37247"	P-52	5	21°18'25.06644"	82°29'26.13681"
P-3	1	21°08'24.35372"	82°29'03.09273"	P-53	5	21°18'19.75203"	82°29'29.95242"
P-4	1	21°08'26.17244"	82°29'03.95387"	P-54	5	21°18'15.99596"	82°29'35.61516"
P-5	1	21°08'09.36916"	82°28'54.48111"	P-55	5	21°18'11.78670"	82°29'40.82015"
P-6	1	21°08'15.69227"	82°28'53.37924"	P-56	5	21°18'11.59401"	82°29'40.95982"
P-7	1	21°09'09.92440"	82°29'30.63312"	P-57	6	21°18'11.33698"	82°31'38.76463"
P-8	1	21°09'16.15278"	82°29'28.81176"	P-58	6	21°18'15.80907"	82°31'41.76993"
P-9	1	21°08'56.83789"	82°29'25.99176"	P-59	7	21°16'44.57577"	82°33'00.62192"
P-10	1	21°08'56.83789"	82°29'25.99176"	P-60	7	21°16'48.40481"	82°33'05.86524"
P-11	1	21°09'02.98704"	82°29'28.24749"	P-61	7	21°16'50.90273"	82°33'09.68633"
P-12	1	21°09'09.15266"	82°29'30.44951"	P-62	8	21°16'24.37158"	82°32'59.18884"
P-13	1	21°08'31.42468"	82°29'06.34443"	P-63	8	21°16'30.70836"	82°33'00.61273"
P-14	1	21°08'36.83703"	82°29'10.03733"	P-64	8	21°16'37.16179"	82°32'59.96399"
P-15	1	21°08'41.68597"	82°29'14.65401"	P-65	8	21°16'18.89589"	82°32'54.80738"
P-16	1	21°08'46.69045"	82°29'19.08052"	P-66	9	21°15'49.35401"	82°32'20.07566"
P-17	1	21°08'51.82648"	82°29'23.33015"	P-67	9	21°15'53.82520"	82°32'25.10843"
P-18	1	21°08'52.94539"	82°29'24.16470"	P-68	9	21°15'58.06312"	82°32'30.31705"
P-19	1	21°11'13.34716"	82°29'22.98243"	P-69	9	21°16'02.90353"	82°32'34.72769"
P-20	1	21°11'12.55491"	82°29'20.50062"	P-70	9	21°16'07.52304"	82°32'39.59167"
P-21	2	21°09'37.91801"	82°29'35.39174"	P-71	9	21°16'11.48952"	82°32'45.05794"
P-22	2	21°09'41.77221"	82°29'40.75233"	P-72	9	21°16'13.97790"	82°32'49.25107"
P-23	2	21°09'47.34126"	82°29'43.78403"	P-73	9	21°16'13.97790"	82°32'49.25107"
P-24	3	21°11'34.33294"	82°26'52.82103"	P-74	9	21°16'16.73585"	82°32'52.52310"
P-25	3	21°11'37.83657"	82°26'46.98050"	P-75	9	21°15'43.26034"	82°32'13.08614"
P-26	3	21°11'41.22098"	82°26'41.05945"	P-76	9	21°15'45.66149"	82°32'15.31263"
P-27	3	21°11'43.19357"	82°26'37.71339"	P-77	10	21°15'09.90779"	82°33'14.95593"
P-28	3	21°11'47.94414"	82°26'29.79113"	P-78	10	21°15'10.44992"	82°33'08.05701"
P-29	3	21°11'49.22099"	82°26'27.67862"	P-79	10	21°15'11.49508"	82°33'01.21087"
P-30	4	21°16'38.50072"	82°26'19.48462"	P-80	10	21°15'12.35708"	82°32'57.44338"


Divisional Forest Officer
Mahsamund General Division


उप वनमण्डलाधिकारी (सा.)
सरायपाली उपवनमण्डल
सरायपाली (छ.ग.)




उप वनमण्डलाधिकारी (सा.)
पिथौरा उपवनमण्डल
पिथौरा (छ.ग.)

Point	Patch	Latitude inD:M:S	Longitude inD:M:S	Point	Patch	Latitude inD:M:S	Longitude inD:M:S
P-31	4	21°16'40.47903"	82°26'12.88111"	P-81	10	21°15'12.35708"	82°32'57.44338"
P-32	4	21°16'43.73164"	82°26'06.90411"	P-82	10	21°15'15.25307"	82°32'51.25877"
P-33	4	21°16'48.90407"	82°26'03.94135"	P-83	10	21°15'18.26616"	82°32'45.13974"
P-34	4	21°16'54.70043"	82°26'01.58232"	P-84	10	21°15'18.98261"	82°32'38.26783"
P-35	4	21°16'58.69006"	82°25'56.15762"	P-85	10	21°15'18.98864"	82°32'37.26223"
P-36	4	21°17'02.15208"	82°25'50.30946"	P-86	10	21°15'09.89163"	82°33'14.96407"
P-37	4	21°17'02.83079"	82°25'47.99499"	P-87	10	21°15'04.22653"	82°33'15.54438"
P-38	4	21°17'02.83079"	82°25'47.99499"	P-88	10	21°14'58.48136"	82°33'10.14402"
P-39	4	21°17'03.57287"	82°25'41.11005"	P-89	10	21°14'57.78188"	82°33'03.30881"
P-40	4	21°17'05.38942"	82°25'34.54876"	P-90	10	21°14'57.67236"	82°32'57.18523"
P-41	4	21°17'11.00293"	82°25'31.09564"	P-91	11	21°14'41.75080"	82°33'17.83954"
P-42	4	21°17'16.62790"	82°25'28.74788"	P-92	11	21°14'45.56376"	82°33'23.31269"
P-43	4	21°17'23.09895"	82°25'28.08716"	P-93	11	21°14'47.59241"	82°33'26.99116"
P-44	4	21°17'29.00660"	82°25'25.56529"	P-94	11	21°14'47.59241"	82°33'26.99116"
P-45	4	21°17'29.77264"	82°25'25.67183"	P-95	11	21°14'48.21714"	82°33'28.76415"
P-46	5	21°18'40.21513"	82°29'01.62086"	P-96	11	21°14'48.21813"	82°33'28.76684"
P-47	5	21°18'34.86842"	82°29'05.54146"	P-97	11	21°14'50.48798"	82°33'35.25971"
P-48	5	21°18'31.53592"	82°29'08.73403"	P-98	11	21°14'50.52005"	82°33'42.01041"
P-49	5	21°18'31.53592"	82°29'08.73403"	P-99	11	21°14'46.89023"	82°33'47.58439"
P-50	5	21°18'27.81039"	82°29'14.33789"	P-100	11	21°14'46.22667"	82°33'48.27493"
P-101	12	21°14'38.52347"	82°34'11.81654"	P-151	16	21°16'44.13678"	82°37'01.73836"
P-102	12	21°14'39.90838"	82°34'18.54633"	P-152	16	21°16'43.10335"	82°36'54.91879"
P-103	12	21°14'40.00928"	82°34'21.13542"	P-153	16	21°16'43.07190"	82°36'47.98077"
P-104	12	21°14'45.94886"	82°33'48.76227"	P-154	16	21°16'42.99431"	82°36'43.68636"
P-105	12	21°14'42.45696"	82°33'54.05387"	P-155	16	21°16'42.99431"	82°36'43.68636"
P-106	12	21°14'40.23142"	82°34'00.52700"	P-156	16	21°16'41.18770"	82°36'37.07332"
P-107	12	21°14'40.21217"	82°34'24.43718"	P-157	16	21°16'37.52333"	82°36'31.38666"
P-108	12	21°14'39.63126"	82°34'31.34052"	P-158	16	21°16'32.25641"	82°36'27.37245"
P-109	12	21°14'39.12926"	82°34'34.55894"	P-159	16	21°16'26.46768"	82°36'24.22172"
P-110	12	21°14'39.12926"	82°34'34.55894"	P-160	16	21°16'25.88700"	82°36'23.81834"
P-111	12	21°14'39.83932"	82°34'41.35491"	P-161	16	21°16'46.79996"	82°37'08.10460"
P-112	12	21°14'41.01158"	82°34'48.04332"	P-162	16	21°16'44.14571"	82°37'01.78936"

Point	Patch	Latitude inD:M:S	Longitude inD:M:S	Point	Patch	Latitude inD:M:S	Longitude inD:M:S
P-113	12	21°14'41.14753"	82°34'54.92947"	P-163	16	21°16'43.08798"	82°36'54.97515"
P-114	12	21°14'40.69331"	82°34'58.11067"	P-164	16	21°16'43.05532"	82°36'48.03715"
P-115	12	21°14'40.69331"	82°34'58.11067"	P-165	16	21°16'42.61411"	82°36'41.13296"
P-116	12	21°14'38.45162"	82°34'59.75092"	P-166	16	21°16'42.21871"	82°36'39.66324"
P-117	13	21°13'57.38662"	82°33'23.38398"	P-167	16	21°16'42.21871"	82°36'39.66324"
P-118	13	21°14'02.59233"	82°33'27.11924"	P-168	16	21°16'39.23196"	82°36'33.52075"
P-119	13	21°14'08.33460"	82°33'29.97786"	P-169	16	21°16'34.52552"	82°36'28.78268"
P-120	13	21°14'08.96099"	82°33'29.94930"	P-170	16	21°16'28.77261"	82°36'25.55859"
P-121	13	21°14'08.96099"	82°33'29.94930"	P-171	16	21°16'25.87840"	82°36'23.83307"
P-122	13	21°14'13.05318"	82°33'27.06976"	P-172	16	21°16'42.23356"	82°36'39.65619"
P-123	13	21°14'15.68288"	82°33'23.28619"	P-173	16	21°16'42.23356"	82°36'39.65619"
P-124	14	21°12'26.60155"	82°33'22.25773"	P-174	16	21°16'43.53266"	82°36'38.72739"
P-125	14	21°12'31.87156"	82°33'26.30971"	P-175	16	21°16'42.21871"	82°36'39.66324"
P-126	14	21°12'37.32449"	82°33'30.06327"	P-176	17	21°19'48.49490"	82°37'16.76581"
P-127	14	21°12'42.83837"	82°33'33.72832"	P-177	17	21°19'50.66957"	82°37'23.28008"
P-128	14	21°12'47.31471"	82°33'35.61860"	P-178	17	21°19'50.71627"	82°37'26.70434"
P-129	15	21°12'15.53335"	82°36'33.02298"	P-179	17	21°19'50.71627"	82°37'26.70434"
P-130	15	21°12'18.87021"	82°36'38.52217"	P-180	17	21°19'50.62724"	82°37'33.64350"
P-131	15	21°12'21.89143"	82°36'43.48278"	P-181	17	21°19'50.53335"	82°37'40.58255"
P-132	15	21°12'18.53431"	82°36'11.59016"	P-182	17	21°19'50.48524"	82°37'42.38653"
P-133	15	21°12'12.96075"	82°36'08.05421"	P-183	17	21°19'50.48524"	82°37'42.38653"
P-134	15	21°12'09.75895"	82°36'13.10862"	P-184	17	21°19'46.79549"	82°37'41.08964"
P-135	15	21°12'11.52693"	82°36'19.69560"	P-185	17	21°19'50.49243"	82°37'43.43158"
P-136	15	21°12'13.45796"	82°36'26.24237"	P-186	17	21°19'50.48524"	82°37'42.38653"
P-137	15	21°12'15.44086"	82°36'32.75167"	P-187	17	21°19'50.48524"	82°37'42.38653"
P-138	15	21°12'15.53335"	82°36'33.02298"	P-188	17	21°19'50.84445"	82°37'42.54541"
P-139	15	21°12'12.07691"	82°36'07.54992"	P-189	17	21°19'06.78564"	82°37'32.69547"
P-140	15	21°12'10.00097"	82°36'07.26720"	P-190	17	21°19'02.98121"	82°37'33.71549"
P-141	15	21°12'51.64863"	82°36'11.77091"	P-191	18	21°18'21.71170"	82°40'45.75076"
P-142	15	21°12'46.54304"	82°36'12.37067"	P-192	18	21°18'28.02317"	82°40'46.66981"
P-143	15	21°12'31.65822"	82°36'14.10865"	P-193	18	21°18'34.13222"	82°40'44.32118"
P-144	15	21°12'27.00090"	82°36'13.52278"	P-194	18	21°18'40.21723"	82°40'41.88716"

Chhattisgarh BharatNet Phase-II Project

Point	Patch	Latitude inD:M:S	Longitude inD:M:S	Point	Patch	Latitude inD:M:S	Longitude inD:M:S
P-145	15	21°12'43.02503"	82°36'14.13167"	P-195	18	21°18'45.05890"	82°40'37.71293"
P-146	15	21°12'35.81174"	82°36'14.97707"	P-196	18	21°18'45.05890"	82°40'37.71293"
P-147	15	21°12'35.20556"	82°36'14.90375"	P-197	18	21°18'49.59914"	82°40'34.46196"
P-148	15	21°12'38.99545"	82°36'15.05602"	P-198	18	21°19'11.03863"	82°40'40.84523"
P-149	15	21°12'36.37617"	82°36'15.03592"	P-199	18	21°19'13.07034"	82°40'42.07674"
P-150	16	21°16'46.79407"	82°37'08.05337"	P-200	18	21°18'59.41062"	82°40'36.22277"
P-201	18	21°19'05.55711"	82°40'38.47900"	P-251	19	21°18'16.08934"	82°39'54.36489"
P-202	18	21°19'05.66032"	82°40'38.52025"	P-252	19	21°18'14.29191"	82°39'58.51018"
P-203	18	21°22'29.43027"	82°45'08.86685"	P-253	19	21°18'13.88059"	82°39'58.52625"
P-204	18	21°22'28.82326"	82°45'09.04740"	P-254	19	21°18'14.14815"	82°39'58.82345"
P-205	19	21°17'18.18582"	82°40'28.20710"	P-255	19	21°18'12.73268"	82°40'00.91450"
P-206	19	21°17'23.86511"	82°40'31.24859"	P-256	19	21°18'24.08531"	82°39'34.60483"
P-207	19	21°17'30.08350"	82°40'33.27718"	P-257	19	21°18'24.08504"	82°39'33.18495"
P-208	19	21°17'36.23501"	82°40'35.52307"	P-258	20	21°16'44.58041"	82°42'12.62744"
P-209	19	21°17'42.62374"	82°40'36.79282"	P-259	20	21°16'46.15758"	82°42'05.95538"
P-210	19	21°17'46.14177"	82°40'37.42274"	P-260	20	21°16'49.21413"	82°41'59.83662"
P-211	19	21°17'46.14177"	82°40'37.42274"	P-261	20	21°16'50.65483"	82°41'53.12289"
P-212	19	21°17'52.54392"	82°40'36.94231"	P-262	20	21°16'50.99553"	82°41'48.57231"
P-213	19	21°17'55.73536"	82°40'35.94401"	P-263	20	21°16'50.99553"	82°41'48.57231"
P-214	19	21°17'55.73536"	82°40'35.94401"	P-264	20	21°16'52.00757"	82°41'41.73586"
P-215	19	21°18'02.05127"	82°40'37.20627"	P-265	20	21°16'54.75032"	82°41'35.47935"
P-216	19	21°18'08.05915"	82°40'39.85993"	P-266	20	21°16'59.05075"	82°41'30.29891"
P-217	19	21°18'13.03024"	82°40'41.97070"	P-267	20	21°17'03.20965"	82°41'25.04496"
P-218	19	21°17'55.73536"	82°40'35.94401"	P-268	20	21°17'04.05492"	82°41'18.22645"
P-219	19	21°18'00.35973"	82°40'31.13784"	P-269	20	21°17'04.14958"	82°41'11.28881"
P-220	19	21°18'03.90150"	82°40'25.32107"	P-270	20	21°17'04.19322"	82°41'04.35070"
P-221	19	21°18'07.42434"	82°40'19.48999"	P-271	20	21°17'04.32536"	82°40'57.41384"
P-222	19	21°18'09.87066"	82°40'15.43328"	P-272	20	21°17'04.27468"	82°40'50.47605"
P-223	19	21°18'09.20749"	82°40'18.57494"	P-273	20	21°17'04.22780"	82°40'49.40406"
P-224	19	21°18'05.44445"	82°40'23.59710"	P-274	20	21°17'04.21117"	82°40'49.39593"
P-225	19	21°18'01.85405"	82°40'29.37977"	P-275	20	21°17'04.31464"	82°40'56.33255"
P-226	19	21°17'57.79214"	82°40'34.70095"	P-276	20	21°17'04.20004"	82°41'03.26967"

Chhattisgarh BharatNet Phase-II Project

Point	Patch	Latitude inD:M:S	Longitude inD:M:S	Point	Patch	Latitude inD:M:S	Longitude inD:M:S
P-227	19	21°17'55.73536"	82°40'35.94401"	P-277	20	21°17'04.15855"	82°41'10.20763"
P-228	19	21°18'10.31124"	82°40'15.55097"	P-278	20	21°17'04.04889"	82°41'17.14496"
P-229	19	21°18'09.20749"	82°40'18.57494"	P-279	20	21°17'03.57012"	82°41'24.03685"
P-230	19	21°18'25.34710"	82°39'30.20649"	P-280	20	21°16'59.97303"	82°41'29.34415"
P-231	19	21°18'24.72364"	82°39'30.94856"	P-281	20	21°16'59.97303"	82°41'29.34415"
P-232	19	21°18'24.99854"	82°39'30.11667"	P-282	20	21°16'55.51077"	82°41'34.37082"
P-233	19	21°18'23.59995"	82°39'36.36108"	P-283	20	21°16'52.41241"	82°41'40.42684"
P-234	19	21°18'22.90913"	82°39'37.66403"	P-284	20	21°16'51.09192"	82°41'47.19671"
P-235	19	21°18'26.79962"	82°39'25.59939"	P-285	20	21°16'50.57628"	82°41'54.11303"
P-236	19	21°18'25.63776"	82°39'28.15349"	P-286	20	21°16'48.83572"	82°42'00.74565"
P-237	19	21°18'26.45338"	82°39'25.52330"	P-287	20	21°16'45.74725"	82°42'06.84736"
P-238	19	21°18'22.70061"	82°39'39.64296"	P-288	20	21°16'44.57295"	82°42'12.62487"
P-239	19	21°18'21.05210"	82°39'46.28214"	P-289	21	21°14'35.92146"	82°38'44.18804"
P-240	19	21°18'20.70877"	82°39'46.40621"	P-290	21	21°14'39.83292"	82°38'49.64031"
P-241	19	21°18'22.25087"	82°39'39.74296"	P-291	21	21°14'42.92509"	82°38'55.71955"
P-242	19	21°18'22.56661"	82°39'38.99784"	P-292	21	21°14'47.93188"	82°39'00.01156"
P-243	19	21°18'20.23024"	82°39'49.90440"	P-293	21	21°14'52.12678"	82°39'05.30489"
P-244	19	21°18'20.06142"	82°39'49.74955"	P-294	21	21°14'58.21686"	82°39'06.61929"
P-245	19	21°18'20.12330"	82°39'49.54201"	P-295	21	21°14'58.26086"	82°39'06.60560"
P-246	19	21°18'16.79254"	82°39'52.57153"	P-296	21	21°14'58.26086"	82°39'06.60560"
P-247	19	21°18'17.77352"	82°39'52.00030"	P-297	21	21°15'04.32708"	82°39'04.26472"
P-248	19	21°18'12.73268"	82°40'00.91450"	P-298	21	21°15'08.55118"	82°39'02.82597"
P-249	19	21°18'13.56690"	82°39'59.26553"	P-299	21	21°15'10.03931"	82°39'09.47960"
P-250	19	21°18'16.69665"	82°39'53.02525"	P-300	21	21°15'09.24029"	82°39'11.63471"
P-301	21	21°14'50.24479"	82°39'05.30896"	P-351	28	21°10'08.34684"	82°39'38.69248"
P-302	21	21°14'47.43791"	82°38'59.95009"	P-352	28	21°10'14.46312"	82°39'36.33733"
P-303	21	21°14'47.21389"	82°38'59.69561"	P-353	28	21°10'20.58223"	82°39'33.99094"
P-304	21	21°14'47.21389"	82°38'59.69561"	P-354	28	21°10'26.40352"	82°39'30.97278"
P-305	21	21°14'42.27083"	82°38'55.34871"	P-355	28	21°10'31.90941"	82°39'27.28348"
P-306	21	21°14'39.33946"	82°38'49.18215"	P-356	28	21°10'37.44085"	82°39'23.63763"
P-307	21	21°14'35.66045"	82°38'44.22120"	P-357	28	21°10'40.96866"	82°39'21.32812"
P-308	22	21°12'56.66822"	82°40'08.24456"	P-358	28	21°10'40.96866"	82°39'21.32812"

Point	Patch	Latitude inD:M:S	Longitude inD:M:S	Point	Patch	Latitude inD:M:S	Longitude inD:M:S
P-309	22	21°12'58.35195"	82°40'14.94061"	P-359	28	21°10'46.48385"	82°39'17.65454"
P-310	22	21°13'00.40946"	82°40'21.50465"	P-360	28	21°10'47.90534"	82°39'16.70295"
P-311	22	21°13'03.18065"	82°40'27.66770"	P-361	29	21°10'35.29320"	82°37'01.21173"
P-312	22	21°13'02.28502"	82°40'31.63932"	P-362	29	21°10'28.94228"	82°37'00.45657"
P-313	22	21°13'02.28502"	82°40'31.63932"	P-363	29	21°10'23.47646"	82°36'57.84273"
P-314	22	21°13'03.09764"	82°40'32.03522"	P-364	29	21°10'18.17794"	82°36'54.07926"
P-315	22	21°12'46.37247"	82°40'47.17819"	P-365	29	21°10'13.31634"	82°36'49.78492"
P-316	22	21°12'50.51969"	82°40'42.57451"	P-366	29	21°10'08.13385"	82°36'45.86083"
P-317	22	21°12'55.05311"	82°40'37.65940"	P-367	29	21°10'02.60597"	82°36'42.75808"
P-318	22	21°13'00.77629"	82°40'34.37873"	P-368	29	21°09'56.79581"	82°36'40.99340"
P-319	22	21°13'02.28502"	82°40'31.63932"	P-369	29	21°09'50.52185"	82°36'40.87520"
P-320	23	21°11'49.66669"	82°43'12.33303"	P-370	29	21°09'45.26899"	82°36'41.05455"
P-321	23	21°11'50.57954"	82°43'05.58333"	P-371	30	21°08'27.92539"	82°36'14.52857"
P-322	23	21°11'51.97536"	82°42'58.82196"	P-372	30	21°08'25.39143"	82°36'13.81045"
P-323	23	21°11'54.22557"	82°42'52.32020"	P-373	31	21°07'08.01055"	82°37'15.77259"
P-324	23	21°11'56.55094"	82°42'48.67305"	P-374	31	21°07'05.71881"	82°37'22.25337"
P-325	24	21°11'45.23664"	82°43'45.02571"	P-375	31	21°07'03.49573"	82°37'28.76521"
P-326	24	21°11'38.93881"	82°43'46.74281"	P-376	31	21°07'01.18233"	82°37'35.24191"
P-327	24	21°11'32.62854"	82°43'48.35278"	P-377	31	21°06'58.93906"	82°37'41.74518"
P-328	24	21°11'26.14892"	82°43'48.91409"	P-378	31	21°06'53.69293"	82°37'45.56253"
P-329	24	21°11'21.33764"	82°43'49.40961"	P-379	31	21°06'53.10479"	82°37'45.93579"
P-330	24	21°11'21.33764"	82°43'49.40961"	P-380	31	21°07'20.31206"	82°36'37.53301"
P-331	24	21°11'14.90480"	82°43'50.37584"	P-381	31	21°07'20.10418"	82°36'38.25051"
P-332	24	21°11'08.64241"	82°43'52.23510"	P-382	31	21°07'19.98964"	82°36'38.68451"
P-333	24	21°11'02.38549"	82°43'54.12198"	P-383	31	21°07'19.82423"	82°36'39.34699"
P-334	24	21°10'56.06675"	82°43'55.73747"	P-384	31	21°07'19.82423"	82°36'39.34699"
P-335	24	21°10'51.55007"	82°43'55.61072"	P-385	31	21°07'19.72003"	82°36'39.97804"
P-336	25	21°10'04.23439"	82°43'12.48863"	P-386	31	21°07'10.61017"	82°37'08.63904"
P-337	25	21°10'00.04242"	82°43'07.24759"	P-387	31	21°07'08.27298"	82°37'15.10619"
P-338	25	21°09'57.14821"	82°43'02.79725"	P-388	31	21°07'08.01055"	82°37'15.77259"
P-339	26	21°09'51.34538"	82°41'49.67907"	P-389	31	21°07'19.12204"	82°36'44.60282"
P-340	26	21°09'57.35722"	82°41'48.66685"	P-390	31	21°07'18.35489"	82°36'48.35061"

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Point	Patch	Latitude inD:M:S	Longitude inD:M:S	Point	Patch	Latitude inD:M:S	Longitude inD:M:S
P-341	27	21°10'01.89811"	82°40'21.57114"	P-391	31	21°07'19.64750"	82°36'40.54778"
P-342	27	21°09'58.39786"	82°40'06.88575"	P-392	31	21°07'17.47588"	82°36'51.01479"
P-343	27	21°10'03.44037"	82°40'22.82645"	P-393	31	21°07'17.08306"	82°36'52.04167"
P-344	27	21°10'01.50593"	82°40'21.27455"	P-394	31	21°06'45.59890"	82°37'51.50092"
P-345	27	21°09'58.39786"	82°40'06.88575"	P-395	31	21°06'45.58683"	82°37'51.52936"
P-346	27	21°09'57.89320"	82°40'14.76516"	P-396	32	21°04'42.59433"	82°33'39.81321"
P-347	27	21°09'58.16584"	82°40'13.31032"	P-397	32	21°04'48.45519"	82°33'42.81114"
P-348	27	21°09'55.62372"	82°39'55.26529"	P-398	32	21°04'54.00377"	82°33'46.40953"
P-349	27	21°09'55.31455"	82°39'52.66899"	P-399	32	21°04'59.50218"	82°33'50.08797"
P-350	28	21°10'02.28738"	82°39'41.20245"	P-400	32	21°05'05.60657"	82°33'52.33732"
P-401	32	21°05'05.92625"	82°33'52.38744"	P-451	35	21°09'33.18977"	82°47'36.09886"
P-402	32	21°05'05.92625"	82°33'52.38744"	P-452	35	21°09'34.44398"	82°47'37.74966"
P-403	32	21°05'12.37869"	82°33'51.82409"	P-453	35	21°09'34.44398"	82°47'37.74966"
P-404	32	21°05'18.76536"	82°33'50.68491"	P-454	35	21°09'38.24441"	82°47'43.15723"
P-405	32	21°05'18.97593"	82°33'50.02372"	P-455	35	21°09'39.65303"	82°47'49.83815"
P-406	32	21°05'18.97593"	82°33'50.02372"	P-456	35	21°09'40.02911"	82°47'56.70237"
P-407	32	21°05'22.09281"	82°33'51.27093"	P-457	35	21°09'38.76445"	82°48'03.49079"
P-408	33	21°08'21.31476"	82°31'51.43720"	P-458	35	21°09'38.73332"	82°48'03.95325"
P-409	33	21°08'15.35374"	82°31'54.17681"	P-459	36	21°09'35.52714"	82°47'03.33350"
P-410	33	21°08'09.79743"	82°31'57.76970"	P-460	36	21°09'35.24986"	82°47'05.48779"
P-411	33	21°08'09.53948"	82°31'57.94615"	P-461	37	21°10'40.37858"	82°47'03.55137"
P-412	33	21°08'09.53948"	82°31'57.94615"	P-462	37	21°10'38.44053"	82°46'57.12468"
P-413	33	21°08'03.98837"	82°32'01.55010"	P-463	37	21°10'33.43444"	82°46'53.19969"
P-414	33	21°07'58.70705"	82°32'05.59261"	P-464	37	21°10'27.75275"	82°46'49.83179"
P-415	33	21°07'53.44196"	82°32'09.65920"	P-465	37	21°10'22.06507"	82°46'46.47301"
P-416	33	21°07'48.77185"	82°32'14.26274"	P-466	37	21°10'19.60795"	82°46'44.90180"
P-417	33	21°07'45.96480"	82°32'20.36257"	P-467	38	21°11'11.16726"	82°47'20.02641"
P-418	33	21°07'41.13043"	82°32'24.98341"	P-468	38	21°11'05.36528"	82°47'03.94146"
P-419	33	21°07'36.13160"	82°32'29.40773"	P-469	39	21°10'53.55378"	82°45'57.99020"
P-420	33	21°07'31.79838"	82°32'34.56442"	P-470	39	21°10'56.57893"	82°46'03.79323"
P-421	33	21°07'27.44940"	82°32'39.71682"	P-471	39	21°10'58.41811"	82°46'10.32263"
P-422	33	21°07'24.24395"	82°32'43.63278"	P-472	39	21°10'58.42690"	82°46'10.39765"

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Point	Patch	Latitude inD:M:S	Longitude inD:M:S	Point	Patch	Latitude inD:M:S	Longitude inD:M:S
P-423	33	21°07'24.24395"	82°32'43.63278"	P-473	40	21°10'54.78838"	82°44'59.94068"
P-424	33	21°07'22.70879"	82°32'45.49258"	P-474	40	21°10'50.58452"	82°44'58.55774"
P-425	34	21°10'15.44887"	82°31'12.99777"	P-475	40	21°10'44.10343"	82°44'58.75804"
P-426	34	21°10'09.75704"	82°31'09.81899"	P-476	40	21°10'39.02971"	82°44'56.65118"
P-427	34	21°10'04.24653"	82°31'06.13783"	P-477	41	21°12'27.37226"	82°45'11.72491"
P-428	34	21°09'58.40926"	82°31'04.26731"	P-478	41	21°12'22.09212"	82°45'15.73326"
P-429	34	21°09'52.35163"	82°31'06.78023"	P-479	41	21°12'18.06342"	82°45'17.28974"
P-430	34	21°09'52.32567"	82°31'06.79170"	P-480	42	21°13'00.58690"	82°45'34.77996"
P-431	34	21°09'52.32567"	82°31'06.79170"	P-481	42	21°12'56.83894"	82°45'31.59989"
P-432	34	21°09'46.72403"	82°31'10.30113"	P-482	43	21°13'13.23261"	82°47'00.05118"
P-433	34	21°09'43.23125"	82°31'12.40930"	P-483	43	21°13'10.53081"	82°46'53.82207"
P-434	34	21°10'42.03324"	82°31'09.02982"	P-484	43	21°13'09.04368"	82°46'47.07254"
P-435	34	21°10'35.63667"	82°31'10.26749"	P-485	43	21°13'07.50279"	82°46'40.33576"
P-436	34	21°10'29.20759"	82°31'11.29090"	P-486	43	21°13'07.76423"	82°46'33.46959"
P-437	34	21°10'22.85762"	82°31'12.75937"	P-487	43	21°13'07.95191"	82°46'26.53975"
P-438	34	21°10'22.83914"	82°31'12.76346"	P-488	43	21°13'08.01515"	82°46'24.16247"
P-439	34	21°10'22.83914"	82°31'12.76346"	P-489	43	21°13'08.01515"	82°46'24.16247"
P-440	34	21°10'16.41956"	82°31'13.21543"	P-490	43	21°13'08.10010"	82°46'17.22841"
P-441	34	21°10'15.44887"	82°31'12.99777"	P-491	43	21°13'08.20749"	82°46'10.29455"
P-442	35	21°09'33.66080"	82°47'11.22286"	P-492	43	21°13'08.35712"	82°46'03.36201"
P-443	35	21°09'31.82996"	82°47'17.74776"	P-493	43	21°13'08.46264"	82°45'56.42832"
P-444	35	21°09'27.47656"	82°47'19.47135"	P-494	43	21°13'08.68807"	82°45'49.49812"
P-445	35	21°09'21.21775"	82°47'17.61164"	P-495	43	21°13'08.74556"	82°45'42.56493"
P-446	35	21°09'14.74969"	82°47'17.00008"	P-496	43	21°13'08.78657"	82°45'39.70546"
P-447	35	21°09'12.05273"	82°47'23.06424"	P-497	44	21°14'50.64789"	82°46'10.30998"
P-448	35	21°09'17.99611"	82°47'25.15662"	P-498	44	21°14'46.37331"	82°46'05.25426"
P-449	35	21°09'24.38052"	82°47'26.04381"	P-499	44	21°14'41.10209"	82°46'01.19662"
P-450	35	21°09'29.15051"	82°47'30.69484"	P-500	44	21°14'36.44716"	82°45'58.78982"
P-501	45	21°11'34.26012"	82°56'10.55463"	P-551	51	21°17'57.63005"	83°11'15.55887"
P-502	45	21°11'40.72845"	82°56'09.85951"	P-552	51	21°17'57.60862"	83°11'13.43416"
P-503	45	21°11'46.83099"	82°56'11.35270"	P-553	52	21°18'40.08042"	83°13'52.03374"
P-504	45	21°11'52.78281"	82°56'13.70309"	P-554	52	21°18'42.05396"	83°13'46.12643"

Point	Patch	Latitude inD:M:S	Longitude inD:M:S	Point	Patch	Latitude inD:M:S	Longitude inD:M:S
P-505	45	21°11'59.01060"	82°56'13.19458"	P-555	52	21°18'42.05396"	83°13'46.12643"
P-506	45	21°12'04.24504"	82°56'09.08292"	P-556	52	21°18'42.58592"	83°13'42.80036"
P-507	45	21°12'09.49620"	82°56'08.11510"	P-557	52	21°18'40.76367"	83°13'33.45708"
P-508	46	21°11'56.13104"	82°57'20.13019"	P-558	52	21°18'39.94908"	83°13'26.58574"
P-509	46	21°11'54.41779"	82°57'13.45556"	P-559	52	21°18'39.51439"	83°13'19.66425"
P-510	46	21°11'51.42767"	82°57'07.68469"	P-560	52	21°18'38.65639"	83°13'12.78731"
P-511	47	21°11'47.54751"	83°05'34.80144"	P-561	52	21°18'38.00915"	83°13'07.73375"
P-512	47	21°11'41.30227"	83°05'36.72023"	P-562	52	21°18'42.58592"	83°13'42.80036"
P-513	47	21°11'35.03122"	83°05'38.54091"	P-563	52	21°18'41.44676"	83°13'36.01250"
P-514	47	21°11'30.40862"	83°05'40.32017"	P-564	52	21°18'40.76367"	83°13'33.45708"
P-515	47	21°11'30.40862"	83°05'40.32017"	P-565	53	21°19'14.14223"	83°14'09.66582"
P-516	47	21°11'24.78980"	83°05'40.55534"	P-566	53	21°19'10.23749"	83°14'10.66211"
P-517	47	21°11'21.47771"	83°05'40.21486"	P-567	53	21°19'10.23749"	83°14'10.66211"
P-518	48	21°13'14.93553"	83°10'13.20692"	P-568	53	21°19'05.52493"	83°14'14.61172"
P-519	48	21°13'09.78534"	83°10'16.89571"	P-569	53	21°18'59.08357"	83°14'15.20957"
P-520	48	21°13'06.89771"	83°10'19.64398"	P-570	53	21°18'53.31544"	83°14'18.26413"
P-521	48	21°13'21.67724"	83°10'09.88478"	P-571	53	21°18'47.60496"	83°14'15.22179"
P-522	48	21°13'15.75781"	83°10'12.74186"	P-572	53	21°18'42.73884"	83°14'10.72891"
P-523	48	21°13'14.93553"	83°10'13.20692"	P-573	53	21°18'40.78091"	83°14'10.27912"
P-524	48	21°13'06.89771"	83°10'19.64398"	P-574	54	21°20'31.17643"	83°14'20.82306"
P-525	48	21°13'03.54687"	83°10'25.35786"	P-575	54	21°20'24.80133"	83°14'22.16877"
P-526	48	21°13'00.55195"	83°10'31.26779"	P-576	54	21°20'18.40070"	83°14'23.14767"
P-527	48	21°12'55.52596"	83°10'35.66328"	P-577	54	21°20'13.93591"	83°14'22.94564"
P-528	48	21°12'50.45168"	83°10'39.99602"	P-578	54	21°20'13.93591"	83°14'22.94564"
P-529	48	21°12'44.59723"	83°10'42.91731"	P-579	54	21°20'11.47577"	83°14'21.22398"
P-530	48	21°12'40.31419"	83°10'47.27614"	P-580	54	21°19'53.63999"	83°14'16.93303"
P-531	48	21°12'39.62073"	83°10'53.85074"	P-581	54	21°19'47.94780"	83°14'14.08163"
P-532	48	21°12'37.71969"	83°10'54.97324"	P-582	54	21°19'41.63126"	83°14'12.45275"
P-533	49	21°17'40.92278"	83°09'35.27517"	P-583	54	21°19'35.18049"	83°14'11.78032"
P-534	49	21°17'35.32761"	83°09'38.80304"	P-584	54	21°19'28.76787"	83°14'12.43021"
P-535	49	21°17'30.74989"	83°09'43.60317"	P-585	54	21°19'22.78380"	83°14'11.27446"
P-536	49	21°17'27.66650"	83°09'49.70684"	P-586	54	21°20'11.47577"	83°14'21.22398"

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Point	Patch	Latitude inD:M:S	Longitude inD:M:S	Point	Patch	Latitude inD:M:S	Longitude inD:M:S
P-537	49	21°17'22.87549"	83°09'52.47702"	P-587	54	21°20'05.12613"	83°14'22.29989"
P-538	49	21°17'17.53757"	83°09'48.93402"	P-588	54	21°19'58.81538"	83°14'21.25524"
P-539	49	21°17'15.10942"	83°09'45.93805"	P-589	54	21°19'54.67130"	83°14'18.01847"
P-540	50	21°17'45.45468"	83°08'28.81853"	P-590	54	21°20'13.76121"	83°14'24.03781"
P-541	50	21°17'46.52458"	83°08'21.97573"	P-591	54	21°20'13.93591"	83°14'22.94564"
P-542	50	21°17'47.49734"	83°08'15.11746"	P-592	54	21°20'13.93591"	83°14'22.94564"
P-543	50	21°17'51.15669"	83°08'10.94685"	P-593	54	21°20'14.09372"	83°14'24.30788"
P-544	50	21°17'57.16027"	83°08'08.28740"	P-594	55	21°20'55.23661"	83°14'25.00205"
P-545	50	21°17'57.69129"	83°08'08.02838"	P-595	55	21°20'49.10737"	83°14'22.89116"
P-546	51	21°17'57.60862"	83°11'13.43416"	P-596	55	21°20'46.27083"	83°14'22.51979"
P-547	51	21°17'57.59613"	83°11'12.19615"	P-597	56	21°21'41.85031"	83°15'00.31089"
P-548	51	21°18'05.00227"	83°11'33.04028"	P-598	56	21°21'36.72718"	83°14'56.12679"
P-549	51	21°17'59.84095"	83°11'28.91408"	P-599	56	21°21'33.03984"	83°14'53.93932"
P-550	51	21°17'57.68198"	83°11'22.49564"	P-600	56	21°21'33.22291"	83°14'53.64021"
P-601	56	21°21'38.88310"	83°14'57.04581"	P-651	61	21°23'25.04680"	83°12'19.86485"
P-602	56	21°21'42.05422"	83°15'00.02031"	P-652	61	21°22'17.80125"	83°11'24.47846"
P-603	57	21°21'11.70178"	83°14'01.22061"	P-653	61	21°22'20.07959"	83°11'24.07370"
P-604	57	21°21'17.65432"	83°14'03.98232"	P-654	61	21°22'20.07959"	83°11'24.07370"
P-605	57	21°21'23.82334"	83°14'06.17011"	P-655	61	21°22'17.80125"	83°11'24.47846"
P-606	57	21°21'29.00840"	83°14'10.15256"	P-656	62	21°21'07.09324"	83°08'39.47557"
P-607	57	21°21'26.90735"	83°14'15.70174"	P-657	62	21°21'12.56753"	83°08'43.21625"
P-608	57	21°21'23.68770"	83°14'21.08426"	P-658	62	21°21'15.17307"	83°08'48.67103"
P-609	57	21°21'22.36616"	83°14'27.51292"	P-659	62	21°21'14.91291"	83°08'55.60501"
P-610	57	21°21'21.72441"	83°14'31.79641"	P-660	62	21°21'09.29049"	83°08'58.19361"
P-611	58	21°21'04.19226"	83°13'52.27882"	P-661	62	21°21'04.38324"	83°09'02.47534"
P-612	58	21°21'07.82897"	83°13'57.98315"	P-662	62	21°20'58.41146"	83°09'04.83685"
P-613	58	21°20'43.18852"	83°13'17.55718"	P-663	62	21°20'57.25850"	83°09'04.30813"
P-614	58	21°20'47.17732"	83°13'23.00094"	P-664	63	21°20'55.24331"	83°07'33.06976"
P-615	58	21°20'49.54185"	83°13'29.43175"	P-665	63	21°20'55.51919"	83°07'39.99794"
P-616	58	21°20'52.38825"	83°13'35.43098"	P-666	63	21°20'56.07943"	83°07'46.91125"
P-617	58	21°20'54.79804"	83°13'41.64700"	P-667	63	21°20'56.06050"	83°07'53.80885"
P-618	58	21°20'59.19218"	83°13'46.71248"	P-668	63	21°20'54.78014"	83°08'00.61229"

Point	Patch	Latitude inD:M:S	Longitude inD:M:S	Point	Patch	Latitude inD:M:S	Longitude inD:M:S
P-619	58	21°21'00.42349"	83°13'47.79566"	P-669	63	21°20'53.30148"	83°08'07.36705"
P-620	59	21°22'37.15833"	83°12'56.11013"	P-670	63	21°20'51.04756"	83°08'13.87616"
P-621	59	21°22'30.84230"	83°12'54.75750"	P-671	63	21°20'51.81132"	83°08'18.70739"
P-622	59	21°22'28.98557"	83°12'54.58562"	P-672	64	21°20'31.75257"	83°07'15.46512"
P-623	60	21°23'30.31461"	83°12'33.13655"	P-673	64	21°20'25.38521"	83°07'14.14648"
P-624	60	21°23'28.12839"	83°12'38.23089"	P-674	64	21°20'18.93682"	83°07'13.56758"
P-625	60	21°23'31.95761"	83°12'43.51531"	P-675	64	21°20'17.16824"	83°07'13.61087"
P-626	60	21°23'35.60805"	83°12'49.10815"	P-676	64	21°20'17.16824"	83°07'13.61087"
P-627	60	21°23'38.46311"	83°12'55.30557"	P-677	64	21°20'10.89900"	83°07'12.57872"
P-628	60	21°23'42.01822"	83°12'59.59913"	P-678	64	21°20'05.81613"	83°07'16.80548"
P-629	61	21°22'01.67816"	83°10'56.83438"	P-679	64	21°20'00.45481"	83°07'20.54512"
P-630	61	21°22'02.54010"	83°11'03.62503"	P-680	64	21°19'57.35704"	83°07'15.41066"
P-631	61	21°22'05.41726"	83°11'09.84770"	P-681	64	21°19'56.88562"	83°07'08.57599"
P-632	61	21°22'08.50313"	83°11'15.94298"	P-682	64	21°19'52.90397"	83°07'04.80292"
P-633	61	21°22'13.76578"	83°11'19.59044"	P-683	64	21°19'46.79180"	83°07'02.76596"
P-634	61	21°22'19.32631"	83°11'23.06804"	P-684	64	21°19'41.04192"	83°06'59.54358"
P-635	61	21°22'20.07959"	83°11'24.07370"	P-685	64	21°19'36.28229"	83°06'54.85750"
P-636	61	21°22'20.07959"	83°11'24.07370"	P-686	64	21°19'32.49245"	83°06'51.58555"
P-637	61	21°22'25.26957"	83°11'28.16773"	P-687	64	21°19'32.49245"	83°06'51.58555"
P-638	61	21°22'30.64010"	83°11'32.03516"	P-688	64	21°19'26.60957"	83°06'48.81446"
P-639	61	21°22'35.59723"	83°11'36.51663"	P-689	64	21°19'20.70602"	83°06'46.35946"
P-640	61	21°22'40.47877"	83°11'41.09633"	P-690	64	21°19'19.80756"	83°06'45.62495"
P-641	61	21°22'41.46213"	83°11'41.96455"	P-691	65	21°21'04.39710"	83°06'42.45679"
P-642	61	21°22'41.46213"	83°11'41.96455"	P-692	65	21°21'10.11553"	83°06'39.87941"
P-643	61	21°22'46.06602"	83°11'46.86246"	P-693	65	21°21'04.39710"	83°06'42.45679"
P-644	61	21°22'50.70480"	83°11'51.71914"	P-694	65	21°21'18.62828"	83°06'42.17232"
P-645	61	21°22'55.49147"	83°11'56.41076"	P-695	65	21°21'23.04672"	83°06'47.05930"
P-646	61	21°23'00.49616"	83°12'00.80722"	P-696	65	21°21'24.16958"	83°06'53.85745"
P-647	61	21°23'05.65557"	83°12'05.01004"	P-697	65	21°21'30.59845"	83°06'54.42220"
P-648	61	21°23'10.91327"	83°12'08.90651"	P-698	65	21°21'36.97851"	83°06'53.69541"
P-649	61	21°23'16.31658"	83°12'12.68428"	P-699	65	21°21'43.22826"	83°06'55.60703"
P-650	61	21°23'22.14361"	83°12'15.71355"	P-700	65	21°21'49.28467"	83°06'58.04087"

Point	Patch	Latitude inD:M:S	Longitude inD:M:S	Point	Patch	Latitude inD:M:S	Longitude inD:M:S
P-701	65	21°21'55.19204"	83°07'00.92755"	P-751	71	21°23'29.12327"	83°00'58.01738"
P-702	65	21°21'15.74890"	83°06'40.73167"	P-752	71	21°23'28.78975"	83°01'02.64242"
P-703	65	21°21'04.39710"	83°06'42.45679"	P-753	72	21°23'35.62533"	82°58'39.56903"
P-704	65	21°21'04.39710"	83°06'42.45679"	P-754	72	21°23'37.17810"	82°58'46.27974"
P-705	65	21°21'04.43565"	83°06'42.68483"	P-755	72	21°23'40.82577"	82°58'50.00495"
P-706	65	21°20'59.53621"	83°06'47.18540"	P-756	73	21°23'32.44416"	82°58'20.72580"
P-707	65	21°20'57.63012"	83°06'56.66336"	P-757	73	21°23'33.21540"	82°58'27.51746"
P-708	66	21°22'13.14345"	83°07'09.78790"	P-758	73	21°23'33.62602"	82°58'29.69299"
P-709	66	21°22'19.50318"	83°07'09.92790"	P-759	74	21°25'18.57648"	82°57'47.83534"
P-710	66	21°22'25.91440"	83°07'09.51111"	P-760	74	21°25'17.99894"	82°57'47.02737"
P-711	66	21°22'27.44298"	83°07'08.76864"	P-761	74	21°25'17.99894"	82°57'47.02737"
P-712	66	21°22'12.59701"	83°07'09.54958"	P-762	74	21°25'18.53057"	82°57'44.20854"
P-713	66	21°22'13.14345"	83°07'09.78790"	P-763	74	21°25'18.53057"	82°57'44.20854"
P-714	67	21°21'09.42360"	83°06'09.08070"	P-764	74	21°25'17.51208"	82°57'37.65346"
P-715	67	21°21'06.74677"	83°06'14.92469"	P-765	74	21°25'13.66469"	82°57'32.11240"
P-716	67	21°21'07.54213"	83°06'17.17150"	P-766	74	21°25'07.84637"	82°57'29.02786"
P-717	67	21°21'09.43764"	83°06'09.10022"	P-767	74	21°25'07.13306"	82°57'28.23453"
P-718	67	21°21'06.77592"	83°06'14.94600"	P-768	74	21°24'49.35767"	82°58'10.28758"
P-719	67	21°21'07.54531"	83°06'17.10390"	P-769	74	21°24'54.02798"	82°58'05.53556"
P-720	67	21°21'07.54531"	83°06'17.10390"	P-770	74	21°24'58.62820"	82°58'00.64835"
P-721	67	21°21'07.56274"	83°06'17.16063"	P-771	74	21°25'04.55114"	82°57'58.18414"
P-722	68	21°20'36.35717"	83°06'01.08817"	P-772	74	21°25'06.99585"	82°57'54.18755"
P-723	68	21°20'40.22524"	83°06'06.10152"	P-773	74	21°25'13.86750"	82°57'50.85262"
P-724	68	21°20'45.48206"	83°06'09.07068"	P-774	74	21°25'07.38208"	82°57'53.38698"
P-725	69	21°19'40.40691"	83°04'13.05642"	P-775	74	21°25'11.72764"	82°57'49.83283"
P-726	69	21°19'35.96072"	83°04'15.11314"	P-776	74	21°25'12.48128"	82°57'50.90285"
P-727	69	21°19'36.44121"	83°04'21.73547"	P-777	74	21°25'17.99894"	82°57'47.02737"
P-728	69	21°19'38.19806"	83°04'27.54078"	P-778	74	21°25'14.35070"	82°57'50.83511"
P-729	69	21°19'54.71724"	83°04'17.62742"	P-779	75	21°25'21.32683"	82°56'19.41858"
P-730	69	21°19'48.94292"	83°04'14.54441"	P-780	75	21°25'18.02583"	82°56'20.77333"
P-731	69	21°19'42.70666"	83°04'13.02787"	P-781	76	21°27'12.96446"	82°56'06.26392"
P-732	69	21°19'40.40691"	83°04'13.05642"	P-782	76	21°27'11.85731"	82°55'59.47561"

Point	Patch	Latitude inD:M:S	Longitude inD:M:S	Point	Patch	Latitude inD:M:S	Longitude inD:M:S
P-733	69	21°19'38.19806"	83°04'27.54078"	P-783	76	21°27'10.93553"	82°55'53.70228"
P-734	69	21°19'40.27754"	83°04'34.11288"	P-784	77	21°27'12.96446"	82°56'06.26392"
P-735	69	21°19'43.98603"	83°04'39.78876"	P-785	77	21°27'18.45218"	82°56'03.14075"
P-736	69	21°19'47.96150"	83°04'45.27831"	P-786	77	21°27'24.75725"	82°56'01.95211"
P-737	69	21°19'47.87003"	83°04'51.79233"	P-787	77	21°27'12.96446"	82°56'06.26392"
P-738	69	21°19'46.35621"	83°04'58.25708"	P-788	77	21°27'44.28439"	82°55'58.75612"
P-739	70	21°23'08.02967"	82°58'51.64879"	P-789	77	21°27'50.11680"	82°55'55.68696"
P-740	70	21°23'02.99800"	82°58'48.92239"	P-790	77	21°27'56.19899"	82°55'53.27682"
P-741	70	21°22'56.73753"	82°58'49.09180"	P-791	77	21°27'32.64302"	82°56'02.41312"
P-742	70	21°22'50.92963"	82°58'49.58555"	P-792	77	21°27'33.16598"	82°56'02.34799"
P-743	70	21°22'50.92963"	82°58'49.58555"	P-793	78	21°29'04.61195"	82°55'19.55090"
P-744	70	21°22'44.67346"	82°58'47.84020"	P-794	78	21°29'10.29158"	82°55'16.52430"
P-745	70	21°22'38.74341"	82°58'45.02362"	P-795	78	21°29'16.78539"	82°55'16.85666"
P-746	70	21°22'32.67127"	82°58'44.18974"	P-796	78	21°29'18.49263"	82°55'16.99428"
P-747	71	21°23'28.78975"	83°01'02.64242"	P-797	79	21°29'24.96611"	82°55'17.46541"
P-748	71	21°23'29.76642"	83°00'56.67284"	P-798	79	21°29'25.44976"	82°55'10.75322"
P-749	71	21°23'32.81048"	83°00'53.13432"	P-799	79	21°29'24.74483"	82°55'03.85483"
P-750	71	21°23'33.39708"	83°00'52.81028"	P-800	79	21°29'24.51879"	82°55'01.99347"
P-801	80	21°31'37.81514"	82°51'39.52445"	P-851	88	21°29'35.43586"	82°46'54.41560"
P-802	80	21°31'38.03699"	82°51'37.52902"	P-852	89	21°26'53.86174"	82°47'31.84895"
P-803	81	21°31'11.79463"	82°51'14.15710"	P-853	89	21°26'52.49468"	82°47'38.63034"
P-804	81	21°31'05.39815"	82°51'14.38400"	P-854	89	21°26'51.19046"	82°47'45.43049"
P-805	81	21°31'00.13173"	82°51'18.24174"	P-855	89	21°26'50.54079"	82°47'46.81253"
P-806	81	21°30'54.05607"	82°51'20.62273"	P-856	90	21°26'37.51205"	82°46'41.59820"
P-807	81	21°30'51.86089"	82°51'26.72227"	P-857	90	21°26'43.62931"	82°46'40.24060"
P-808	81	21°30'50.74197"	82°51'30.83660"	P-858	90	21°26'49.71143"	82°46'41.22264"
P-809	81	21°30'50.56454"	82°51'30.87704"	P-859	90	21°26'55.84680"	82°46'41.53914"
P-810	81	21°30'44.40486"	82°51'32.36404"	P-860	90	21°27'00.02509"	82°46'45.28501"
P-811	81	21°30'43.52257"	82°51'33.45686"	P-861	90	21°27'00.02509"	82°46'45.28501"
P-812	81	21°30'43.24847"	82°51'32.03026"	P-862	90	21°26'59.28694"	82°46'52.13053"
P-813	81	21°30'43.06974"	82°51'33.63655"	P-863	90	21°27'01.18872"	82°46'57.80834"
P-814	81	21°30'43.42156"	82°51'33.49771"	P-864	90	21°27'00.99338"	82°47'03.99799"

Point	Patch	Latitude inD:M:S	Longitude inD:M:S	Point	Patch	Latitude inD:M:S	Longitude inD:M:S
P-815	81	21°30'43.24847"	82°51'32.03026"	P-865	90	21°27'02.92905"	82°47'10.24980"
P-816	82	21°29'23.45564"	82°52'37.82514"	P-866	90	21°27'03.42771"	82°47'13.43068"
P-817	82	21°29'17.04084"	82°52'36.93053"	P-867	90	21°27'03.42771"	82°47'13.43068"
P-818	82	21°29'10.56819"	82°52'37.16122"	P-868	90	21°27'02.60829"	82°47'17.03885"
P-819	82	21°29'04.37615"	82°52'36.07551"	P-869	90	21°27'06.51807"	82°46'40.65982"
P-820	82	21°29'00.49106"	82°52'35.10678"	P-870	90	21°27'01.27801"	82°46'41.45974"
P-821	83	21°27'27.11618"	82°55'07.81182"	P-871	90	21°27'00.02509"	82°46'45.28501"
P-822	83	21°27'12.92797"	82°55'22.55316"	P-872	90	21°27'00.02509"	82°46'45.28501"
P-823	83	21°27'14.54942"	82°55'18.53003"	P-873	90	21°27'03.33534"	82°46'40.98324"
P-824	83	21°27'28.22058"	82°55'07.17572"	P-874	90	21°27'06.51807"	82°46'40.65982"
P-825	83	21°27'27.10762"	82°55'07.79702"	P-875	91	21°25'37.30718"	82°45'57.34942"
P-826	84	21°26'35.82139"	82°54'45.56958"	P-876	91	21°25'43.70798"	82°45'57.81989"
P-827	84	21°26'36.10992"	82°54'48.53246"	P-877	91	21°25'50.17953"	82°45'58.31891"
P-828	84	21°26'36.23860"	82°54'48.64752"	P-878	91	21°25'56.54913"	82°45'58.24076"
P-829	84	21°26'35.82139"	82°54'45.56958"	P-879	91	21°26'00.06371"	82°46'03.77190"
P-830	85	21°26'24.20079"	82°53'29.30121"	P-880	91	21°26'02.64412"	82°46'08.24645"
P-831	85	21°26'24.62797"	82°53'22.80827"	P-881	91	21°26'02.64412"	82°46'08.24645"
P-832	85	21°26'27.22995"	82°53'16.91721"	P-882	91	21°26'06.68793"	82°46'13.40249"
P-833	85	21°26'28.06991"	82°53'10.17698"	P-883	91	21°26'13.01052"	82°46'14.19563"
P-834	85	21°26'27.77475"	82°53'03.23974"	P-884	91	21°26'10.95486"	82°46'17.95178"
P-835	85	21°26'27.75731"	82°53'02.92225"	P-885	91	21°26'06.01658"	82°46'22.38263"
P-836	86	21°26'24.88033"	82°52'04.63293"	P-886	91	21°26'04.92636"	82°46'28.38033"
P-837	86	21°26'24.91009"	82°52'00.29782"	P-887	91	21°26'06.13455"	82°46'34.26991"
P-838	87	21°26'49.13631"	82°50'23.53369"	P-888	91	21°26'11.28053"	82°46'35.10208"
P-839	87	21°26'49.65787"	82°50'21.88909"	P-889	92	21°26'20.87810"	82°47'51.28944"
P-840	88	21°29'37.88215"	82°47'38.69456"	P-890	92	21°26'14.61680"	82°47'49.42015"
P-841	88	21°29'37.01919"	82°47'31.81426"	P-891	92	21°26'08.37220"	82°47'47.49828"
P-842	88	21°29'36.23483"	82°47'24.92213"	P-892	92	21°26'02.13998"	82°47'45.54682"
P-843	88	21°29'34.98009"	82°47'22.23192"	P-893	92	21°25'56.99272"	82°47'41.33718"
P-844	88	21°29'34.09286"	82°47'20.61317"	P-894	92	21°25'51.88914"	82°47'37.04559"
P-845	88	21°29'33.38117"	82°47'19.34281"	P-895	92	21°25'48.24038"	82°47'31.30094"
P-846	88	21°29'33.38117"	82°47'19.34281"	P-896	92	21°25'44.68570"	82°47'25.48603"

Point	Patch	Latitude inD:M:S	Longitude inD:M:S	Point	Patch	Latitude inD:M:S	Longitude inD:M:S
P-847	88	21°29'29.84323"	82°47'13.81570"	P-897	92	21°25'43.20798"	82°47'23.05429"
P-848	88	21°29'32.13126"	82°47'07.98038"	P-898	93	21°24'34.75733"	82°50'01.04068"
P-849	88	21°29'32.65168"	82°47'01.16715"	P-899	93	21°24'05.68587"	82°50'06.54911"
P-850	88	21°29'35.30888"	82°46'54.93050"	P-900	93	21°24'34.30628"	82°50'01.97154"
P-901	93	21°24'40.77618"	82°50'02.03302"	P-951	98	21°21'58.52377"	82°43'40.55577"
P-902	93	21°24'47.24302"	82°50'02.56201"	P-952	99	21°15'44.73901"	82°44'35.93140"
P-903	93	21°24'49.94052"	82°50'00.47290"	P-953	99	21°15'46.03576"	82°44'37.48674"
P-904	93	21°24'50.70779"	82°49'58.10181"	P-954	101	21°16'59.28656"	82°51'42.55943"
P-905	93	21°24'56.90779"	82°50'00.07103"	P-955	101	21°17'04.87405"	82°51'39.29715"
P-906	93	21°25'03.16689"	82°50'01.16011"	P-929	97	21°22'25.70537"	82°43'20.63715"
P-907	93	21°25'04.95249"	82°49'58.44812"	P-930	97	21°22'28.65712"	82°43'14.68627"
P-908	94	21°28'45.62243"	82°44'28.87112"	P-931	97	21°22'28.82617"	82°43'13.68627"
P-909	94	21°28'51.93804"	82°44'30.52326"	P-932	97	21°22'28.82617"	82°43'13.68627"
P-910	94	21°28'56.51878"	82°44'28.10223"	P-933	97	21°22'30.09271"	82°43'18.50262"
P-911	94	21°28'56.51878"	82°44'28.10223"	P-934	97	21°22'35.97315"	82°43'20.06458"
P-912	94	21°28'59.01767"	82°44'23.72471"	P-935	97	21°22'35.97315"	82°43'20.06458"
P-913	94	21°28'59.01767"	82°44'23.72471"	P-936	97	21°22'42.02073"	82°43'21.45106"
P-914	94	21°28'58.70895"	82°44'17.46048"	P-937	97	21°22'46.96618"	82°43'25.94451"
P-915	94	21°28'58.22019"	82°44'16.34167"	P-938	97	21°22'52.44803"	82°43'29.66959"
P-916	95	21°27'21.79698"	82°44'30.32651"	P-939	97	21°22'58.73957"	82°43'28.14907"
P-917	95	21°27'28.23919"	82°44'29.38699"	P-940	97	21°23'05.19605"	82°43'27.71047"
P-918	95	21°27'34.67015"	82°44'28.38391"	P-941	97	21°23'11.68481"	82°43'28.13393"
P-919	95	21°27'36.39279"	82°44'28.17594"	P-942	97	21°23'12.99954"	82°43'29.11597"
P-920	96	21°27'23.87992"	82°44'15.46318"	P-943	98	21°21'56.90997"	82°43'38.51005"
P-921	96	21°27'29.17299"	82°44'11.44558"	P-944	98	21°21'58.52377"	82°43'40.55577"
P-922	96	21°27'31.79794"	82°44'05.21736"	P-945	98	21°22'17.51055"	82°44'03.08575"
P-923	96	21°27'32.08517"	82°44'02.76982"	P-946	98	21°22'11.14250"	82°44'03.65543"
P-924	97	21°22'30.06013"	82°43'54.34562"	P-947	98	21°22'06.58774"	82°44'01.12945"
P-925	97	21°22'28.64132"	82°43'47.58398"	P-948	98	21°22'06.06292"	82°43'54.21172"
P-926	97	21°22'26.76229"	82°43'40.95116"	P-949	98	21°22'05.78493"	82°43'47.27697"
P-927	97	21°22'24.67164"	82°43'34.38481"	P-950	98	21°22'01.76069"	82°43'42.62163"
P-928	97	21°22'24.99165"	82°43'27.50494"				



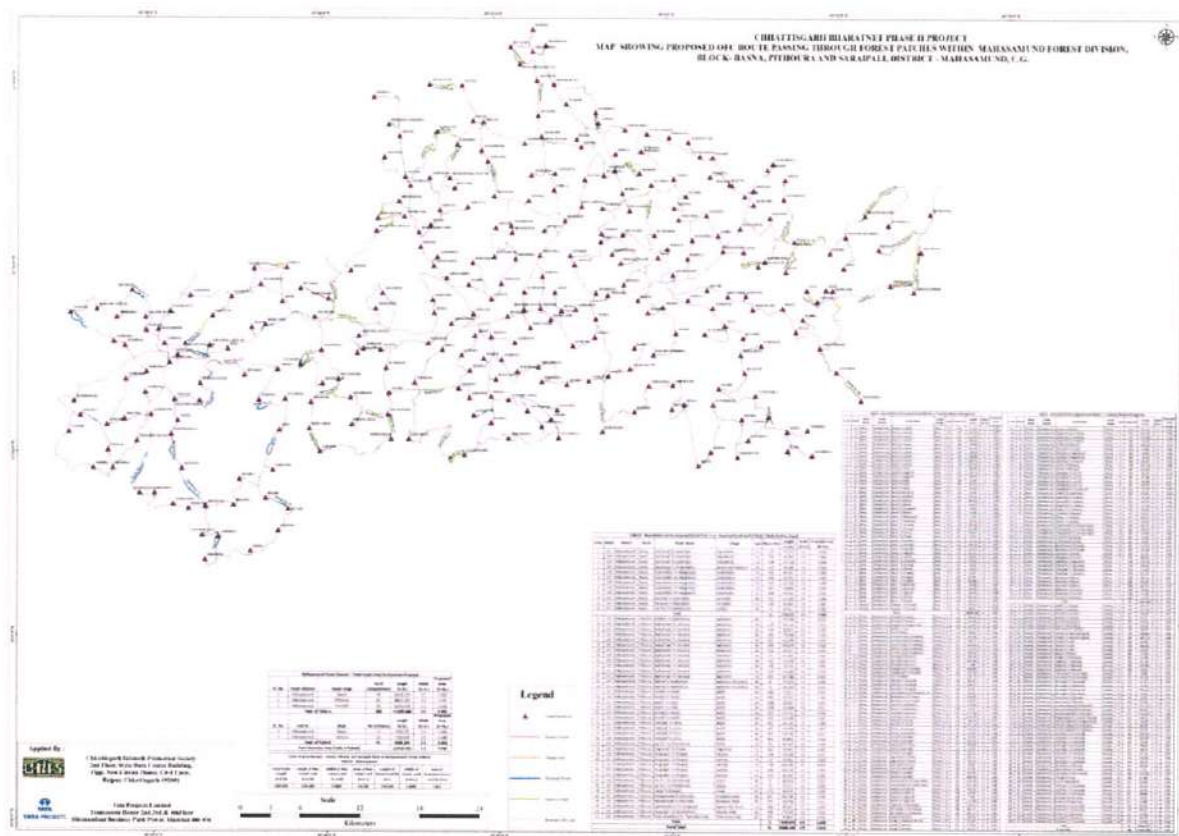
Divisional Forest Officer
Mahsamund General Division

उप वनमण्डलाधिकारी (सा.)
विथौरा उपवनमण्डल
विथौरा (छ.ग.)

उप वनमण्डलाधिकारी (सा.)
सरायपाली उपवनमण्डल
सरायपाली (छ.ग.)

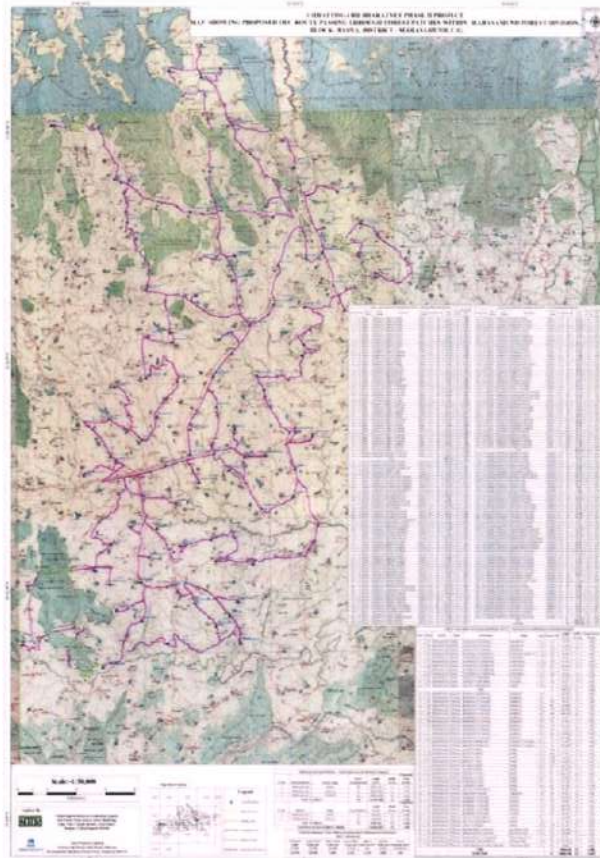
5.3. Geo-Referenced Maps of the Proposed Route (Annexure-3)

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

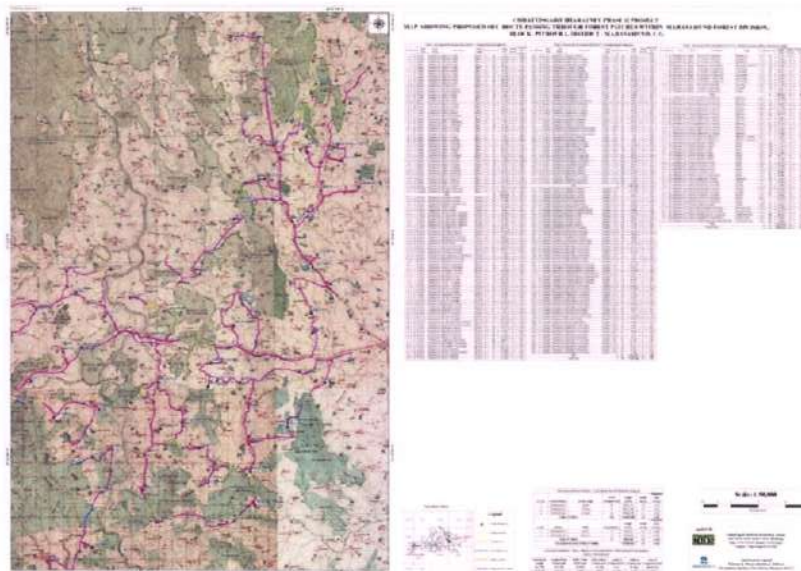


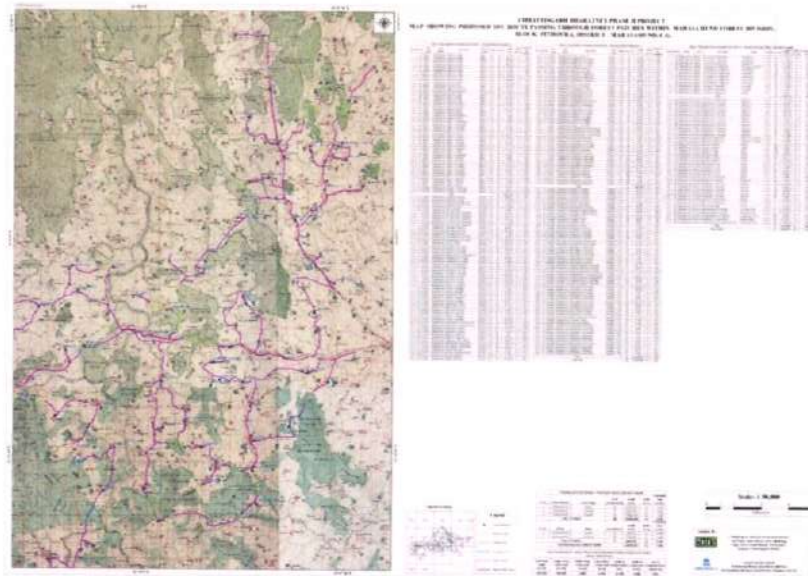
Geo-Referenced Maps of Forest Patched with in Mahasamund Forest Division

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

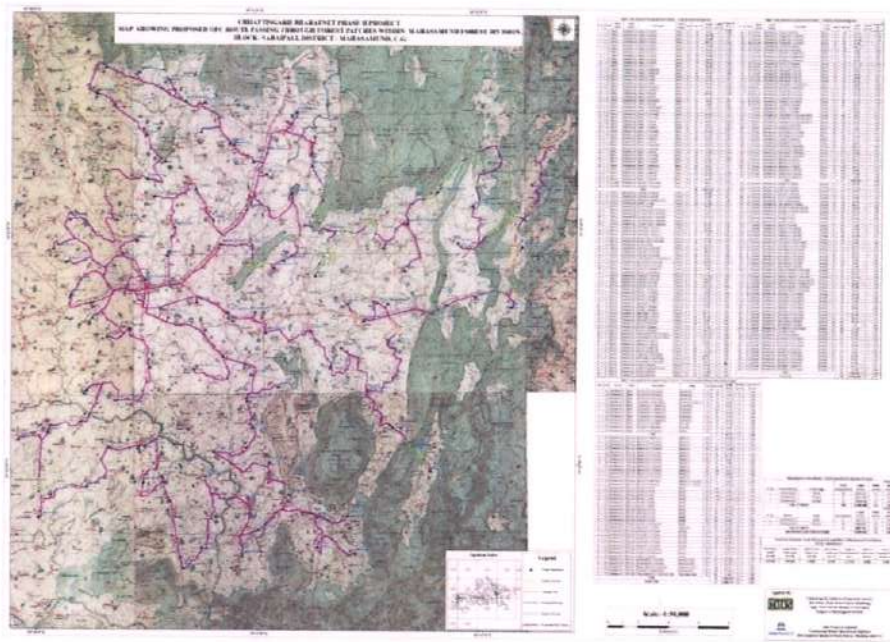


Geo-Referenced Toposheet Map of Forest Patched of Basna block within Mahasamund Forest Division.





Geo-Referenced Toposheet Map of Forest Patched of Pithora block (Part-1 and Part-2) within Mahasamund Forest Division.



Geo-Referenced Toposheet Map of Forest Patched of Saraipali block within Mahasamund Forest Division.



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