

CHHATTISGARH BHARATNET PHASE-II PROJECT

LIDAR/DGPS SURVEY REPORT FOR EAST BHANUPRATAPPUR FOREST DIVISION FOR DIVERSION OF PROPOSED OFC ROUTES

Forest Division : EAST BHANUPRATAPPUR
Forest Land (RF/PF/OA) : 5.623 Ha.
Rev. Forest Land : 1.053 Ha.
Total Proposed Diversion Area : 6.676 Ha.
Block : ANTAGARH AND DURGUKONDAL
District : KANKER (C.G.)

Applicant -



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

Submitted By -



TATA PROJECTS

Tata Projects Limited, Raipur (Chhattisgarh)



वन मण्डलाधिकारी
पूर्व भानुप्रतापपुर वनमंडल
भानुप्रतापपुर



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1. Introduction and Background

1.1. Background

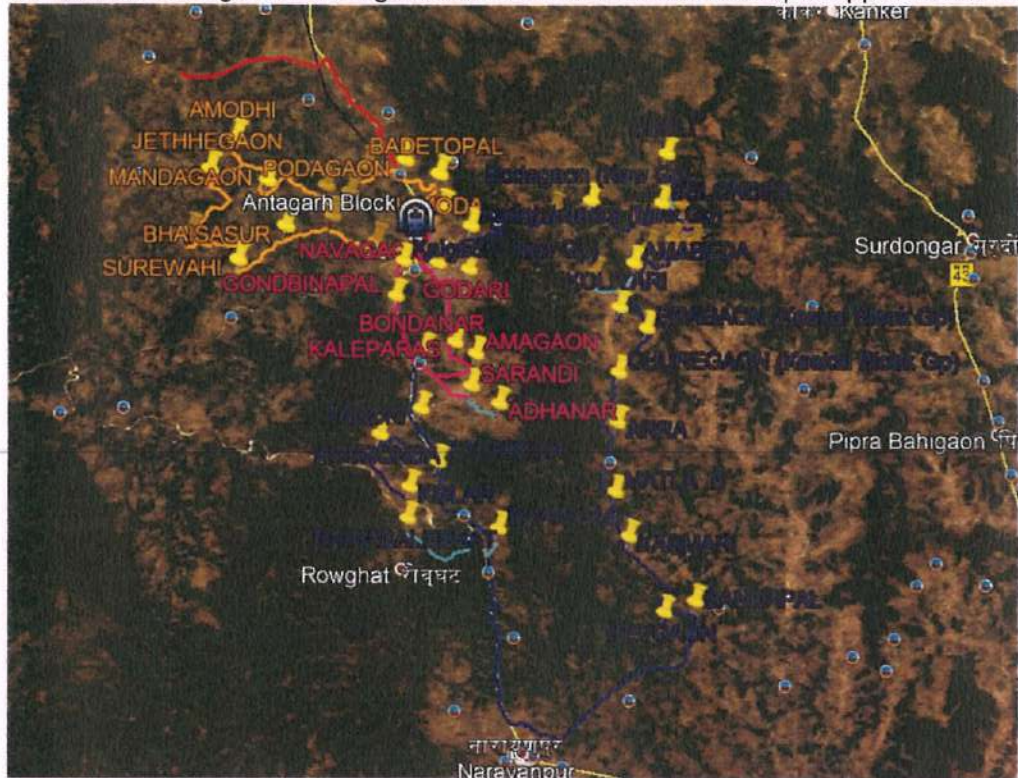
The Government of Chhattisgarh intends to setup an Optical Fibre Cable Network from the Block Head Quarters to Gram Panchayats to provide high speed broadband connectivity by connecting the 85 Blocks, 5987 Gram Panchayats across the State. The proposed network architecture for BharatNet Phase-II project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

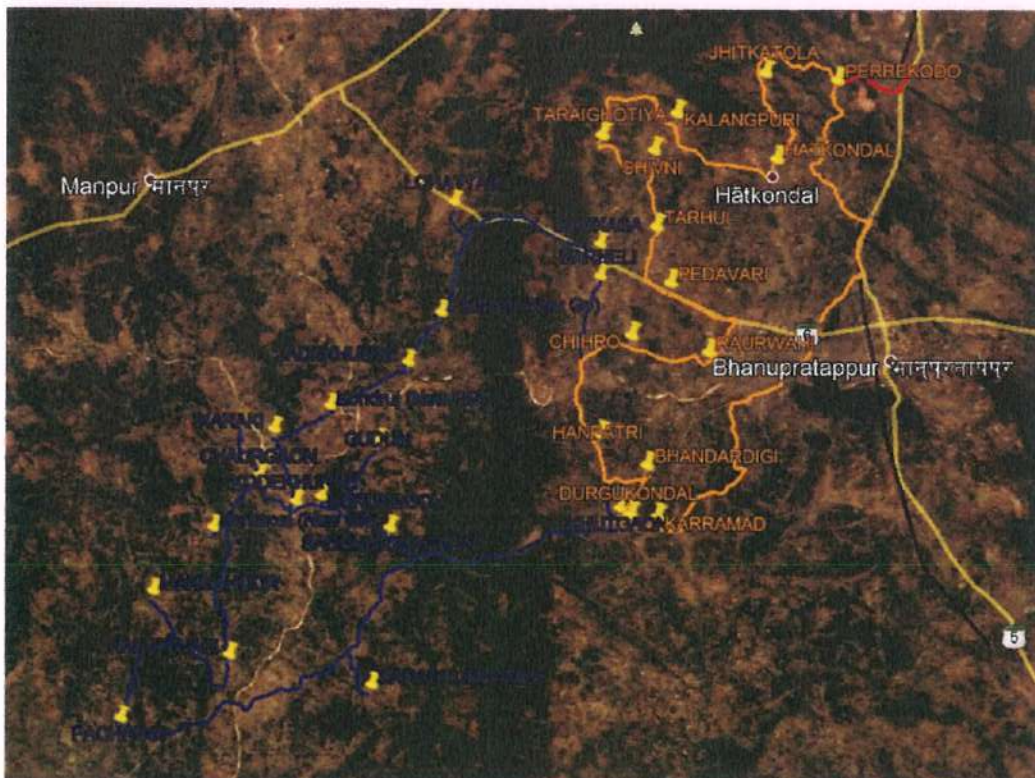
The Chhattisgarh Infotech Promotion Society (CHIPS) has selected an implementation partner **“Tata Project Limited”** for BharatNet Phase-II Project. The project has been conceived with the ambitious vision of providing connectivity to the yet unreachable blocks in Chhattisgarh and entails massive investment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



OFC Cable Proposed Routes in Antagarh Block in East Bhanupratappur Forest Division.



OFC Cable Proposed Routes in Durgukondal Block in East Bhanupratappur Forest Division.

1.3. Location

The proposed OFC Cable route in East Bhanupratappur Forest Division (The OFC route Antagarh and Durgukondal Block; District: Kanker). The Proposed OFC route length is approx. 352.770 Km in Antagarh Block and 234.031 Durgukondal Bloc hence Total route lengths is 586.801 km. The survey site passes through forest ranges Amabera, Antagarh, Antagarh Van Vikas Nigam, and Bhanupratapur, Bhanupratapur Van Vikas Nigam, Durgukondal, Durgukondal Van Vikas Nigamin East Bhanupratappur Forest Division. The OFC Cable route is covered under Survey of India Toposheets 64 D12, 64 D15, 64 D16, 64 H03, 64 H04, 64 H08, 65 E01 and 65 E05 on 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.



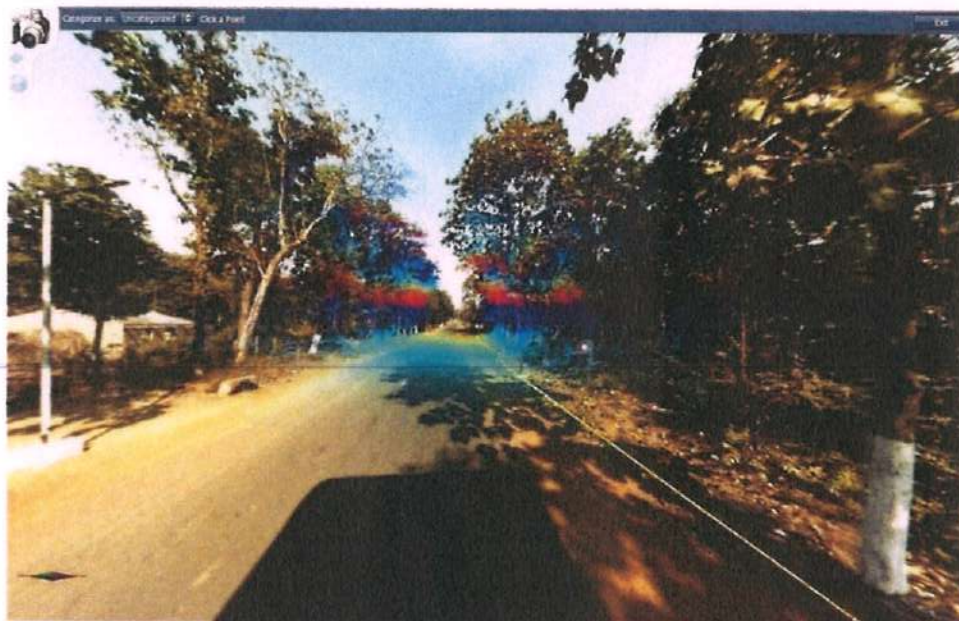
Feature Extraction on LiDAR



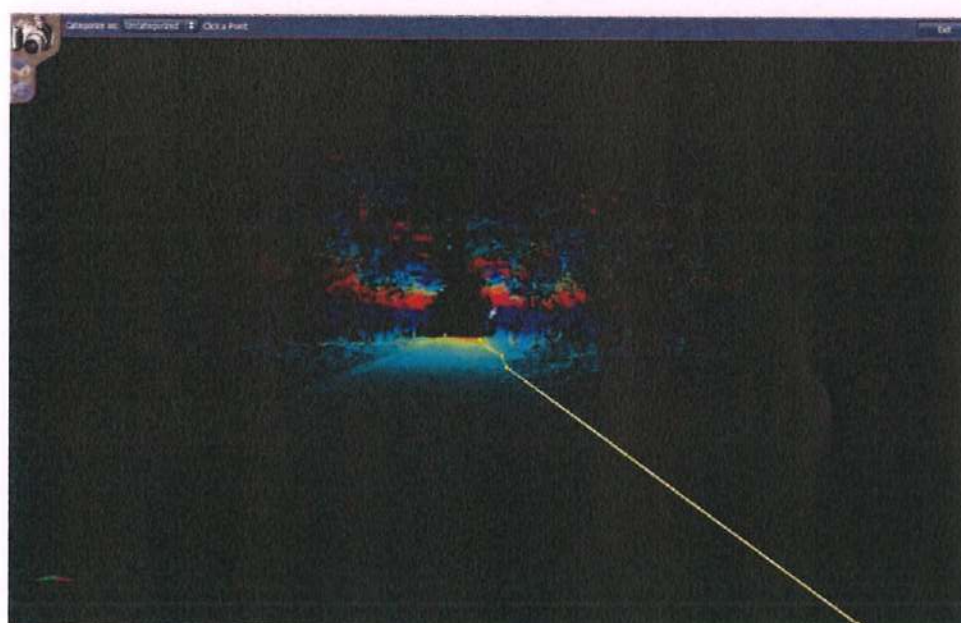
Final DRS / GIS Map

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.



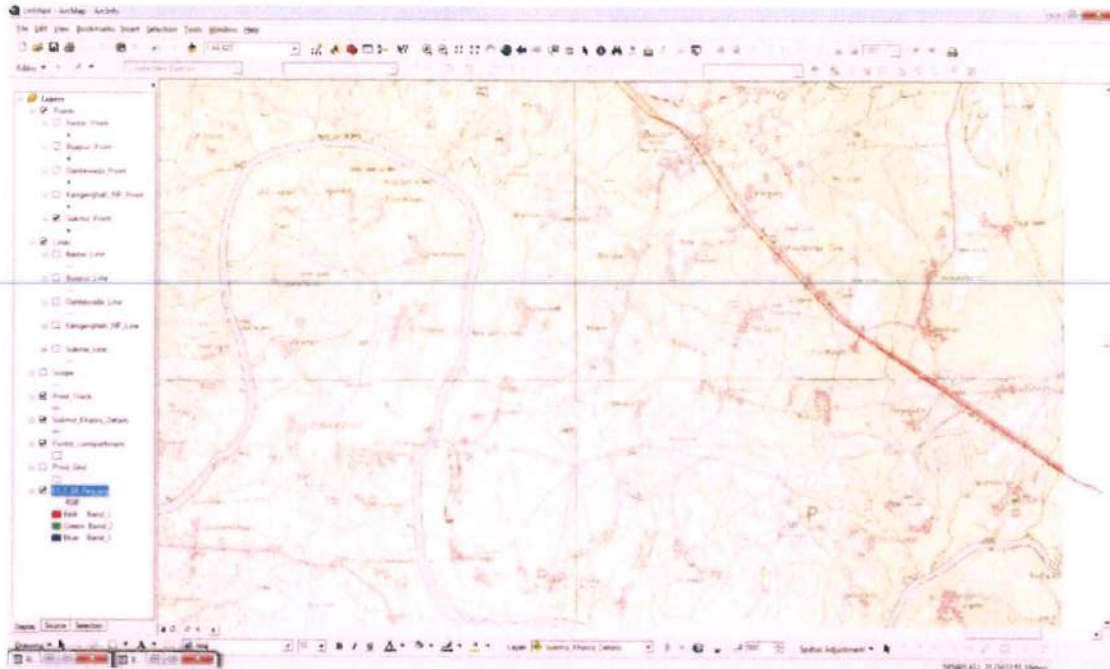
Proposed OFC Line on LiDAR Data (with Panoramic Imagery)



Proposed OFC Line on LiDAR Data only

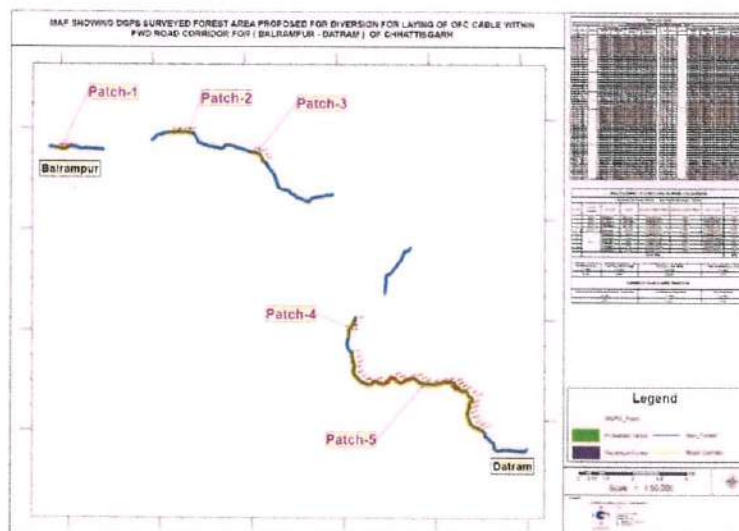
4.5. Geo-referencing of Maps:

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)



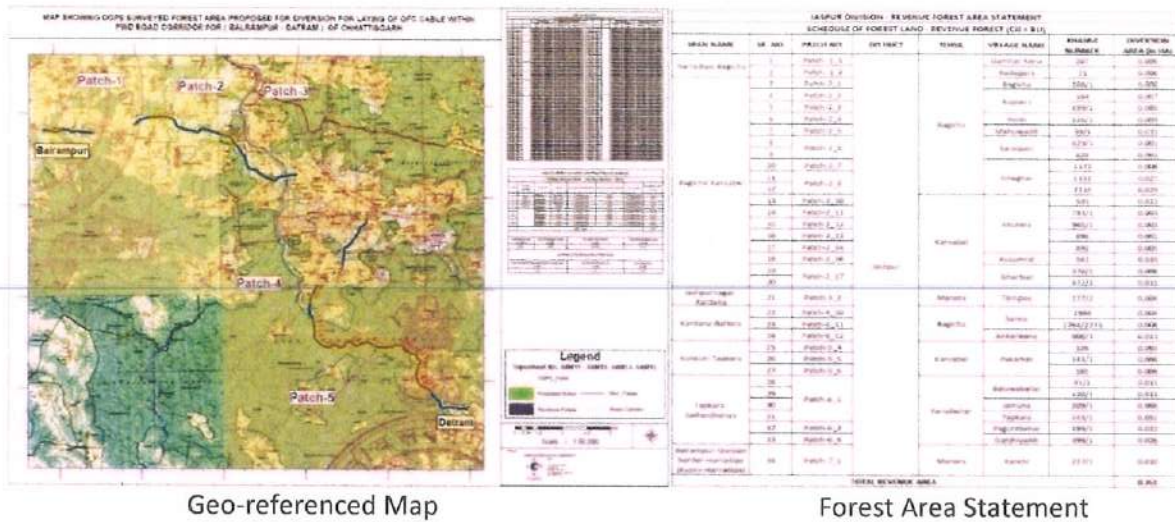
4.6. Creation of Vector Data for Forest Diversion:

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.



5. DGPS Survey Results

The total OFC route length is approx. 586.801 km. covered Antagarh and Durgukondal Block of Kanker District. Out of this 453.271 km OFC route length is passing through non-forest land and 133.530 km OFC route length is passing through Forest Patches hence the proposed forest area for diversion 6.676 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 –Antagarh and Durgukondal Block with in East Bhanupratappur Forest Division, District - Kanker, C.G.					
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.)	Area of Proposed Forest Land (in Ha.)
586.801	453.271	0.0005	22.664	133.530	6.676

East Bhanupratappur 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	East Bhanupratappur	Amabera	19	14048.551	0.5	0.702	
2	East Bhanupratappur	Antagarh	42	52133.406	0.5	2.607	
3	East Bhanupratappur	Antagarh FDC	9	12881.690	0.5	0.644	
4	East Bhanupratappur	Bhanupratapur	2	605.714	0.5	0.03	
5	East Bhanupratappur	Bhanupratapur FDC	2	1688.704	0.5	0.084	
6	East Bhanupratappur	Durgukondal	20	26673.508	0.5	1.334	
7	East Bhanupratappur	Durgukondal FDC	3	4432.269	0.5	0.222	
Total of Table A				112463.842	0.5	5.623	
Sl. No.	District	Block	No of Khasra	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)	
1	Kanker	Antagarh	133	17950.917	0.5	0.898	
2	Kanker	Durgukondal	18	3114.998	0.5	0.155	
Total of Table B			151	21065.915	0.5	1.053	
Total Diversion Area (Table A+TableB)				133529.757	0.5	6.676	



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	Antagarh	East Bhanupratappur	Karmari To Matla B	Amabera	PF	P1020	252.635	0.5	0.013
2	7	Antagarh	East Bhanupratappur	Karmari To Matla B	Amabera	RF	825	268.942	0.5	0.013
3	7	Antagarh	East Bhanupratappur	Karmari To Matla B	Amabera	RF	825	562.969	0.5	0.028
4	8	Antagarh	East Bhanupratappur	Arra To Matla B	Amabera	PF	P1025	713.879	0.5	0.036
5	9	Antagarh	East Bhanupratappur	Arra To Matla B	Amabera	RF	818	470.05	0.5	0.024
6	9	Antagarh	East Bhanupratappur	Arra To Matla B	Amabera	PF	P1024	790.594	0.5	0.040
7	10	Antagarh	East Bhanupratappur	Arra To Matla B	Amabera	PF	P1027	654.437	0.5	0.033
8	11	Antagarh	East Bhanupratappur	Arra To Churegaon	Amabera	RF	813	185.505	0.5	0.009
9	11	Antagarh	East Bhanupratappur	Arra To Churegaon	Amabera	RF	815	296.159	0.5	0.015
10	11	Antagarh	East Bhanupratappur	Arra To Churegaon	Amabera	PF	P1028	862.445	0.5	0.043
11	12	Antagarh	East Bhanupratappur	Amabeda To Koliyari	Amabera	PF	P1031	738.669	0.5	0.037
12	12	Antagarh	East Bhanupratappur	Amabeda To Koliyari	Amabera	PF	P1031	742.66	0.5	0.037
13	12	Antagarh	East Bhanupratappur	Amabeda To Koliyari	Amabera	PF	P1031	1185.083	0.5	0.059
14	13	Antagarh	East Bhanupratappur	Useli To Tumasnar	Amabera	PF	P1043	181.609	0.5	0.009
15	13	Antagarh	East Bhanupratappur	Useli To Tumasnar	Amabera	PF	P1045	876	0.5	0.044
16	13	Antagarh	East Bhanupratappur	Useli To Tumasnar	Amabera	PF	P1046	967.135	0.5	0.048
17	14	Antagarh	East Bhanupratappur	Badepijodi To Bodagaon	Amabera	RF	797	1981.08	0.5	0.099
18	14	Antagarh	East Bhanupratappur	Belondee To Bodagaon	Amabera	PF	P1037	1533.446	0.5	0.077
19	14	Antagarh	East Bhanupratappur	Kadahikhodra To Badepijodi	Amabera	RF	795	785.254	0.5	0.038
Total-							19	14048.551	0.5	0.702
20	1	Antagarh	East Bhanupratappur	Bandapal To Devgaon	Antagarh	PF	p980	78.055	0.5	0.004
21	1	Antagarh	East Bhanupratappur	Bandapal To Devgaon	Antagarh	PF	p980	287.943	0.5	0.014

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.)
22	1	Antagarh	East Bhanupratappur	Bandapal To Devgaon	Antagarh	PF	P980	292.927	0.5	0.015
23	1	Antagarh	East Bhanupratappur	Bandapal To Devgaon	Antagarh	PF	P980	1301.225	0.5	0.065
24	2	Antagarh	East Bhanupratappur	Karmari To Bandapal	Antagarh	PF	P995	847.499	0.5	0.042
25	4	Antagarh	East Bhanupratappur	Karmari To Bandapal	Antagarh	PF	P988	365.336	0.5	0.018
26	15	Antagarh	East Bhanupratappur	Kadahikhodra To Badepijodi	Antagarh	RF	737	1223.159	0.5	0.061
27	15	Antagarh	East Bhanupratappur	Kadahikhodra To Badepijodi	Antagarh	RF	738	1559.62	0.5	0.078
28	15	Antagarh	East Bhanupratappur	Kadahikhodra To Badepijodi	Antagarh	RF	739	2403.174	0.5	0.120
29	15	Antagarh	East Bhanupratappur	Kadahikhodra To Badepijodi	Antagarh	RF	740	3596.444	0.5	0.180
30	24	Antagarh	East Bhanupratappur	Bondanar To Gondbinapal	Antagarh	PF	P961	1736.178	0.5	0.088
31	24	Antagarh	East Bhanupratappur	Bondanar To Gondbinapal	Antagarh	PF	P963	1796.27	0.5	0.090
32	24	Antagarh	East Bhanupratappur	Gondbinapal To Kalgaon	Antagarh	PF	P968	142.922	0.5	0.007
33	24	Antagarh	East Bhanupratappur	Gondbinapal To Kalgaon	Antagarh	PF	P968	142.983	0.5	0.007
34	24	Antagarh	East Bhanupratappur	Gondbinapal To Kalgaon	Antagarh	PF	P968	271.19	0.5	0.014
35	24	Antagarh	East Bhanupratappur	Gondbinapal To Kalgaon	Antagarh	PF	P968	271.838	0.5	0.014
36	25	Antagarh	East Bhanupratappur	Godari To Kaleparas	Antagarh	PF	P965	735.159	0.5	0.037
37	26	Antagarh	East Bhanupratappur	Amagaon To Kaleparas	Antagarh	PF	P960	888.07	0.5	0.044
38	26	Antagarh	East Bhanupratappur	Sarandi To Amagaon	Antagarh	PF	P957	3760.454	0.5	0.188
39	27	Antagarh	East Bhanupratappur	Tadoki To Bondanar	Antagarh	PF	P958	3489.34	0.5	0.174
40	29	Antagarh	East Bhanupratappur	Kosronda To Talabeda	Antagarh	PF	P950	1976.873	0.5	0.099
41	30	Antagarh	East Bhanupratappur	Kosronda To Talabeda	Antagarh	PF	P950	688.384	0.5	0.034
42	30	Antagarh	East Bhanupratappur	Kosronda To Talabeda	Antagarh	PF	P949	693.456	0.5	0.035
43	31	Antagarh	East Bhanupratappur	Kosronda To Talabeda	Antagarh	RF	691	1452.069	0.5	0.073

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.)
44	32	Antagarh	East Bhanupratappur	Bhaigao To Talabeda	Antagarh	PF	P946	612.812	0.5	0.031
45	32	Antagarh	East Bhanupratappur	Bhaigao To Talabeda	Antagarh	PF	P945	936.055	0.5	0.047
46	32	Antagarh	East Bhanupratappur	Bhaigao To Talabeda	Antagarh	RF	693	1704.83	0.5	0.085
47	33	Antagarh	East Bhanupratappur	Bhaigao To Talabeda	Antagarh	RF	694	1177.426	0.5	0.059
48	33	Antagarh	East Bhanupratappur	Bhaigao To Talabeda	Antagarh	RF	779	1712.556	0.5	0.086
49	34	Antagarh	East Bhanupratappur	Devgaon To Baihasalebhat	Antagarh	PF	P955	100.488	0.5	0.005
50	34	Antagarh	East Bhanupratappur	Devgaon To Baihasalebhat	Antagarh	RF	778	196.066	0.5	0.010
51	34	Antagarh	East Bhanupratappur	Devgaon To Baihasalebhat	Antagarh	RF	780	407.281	0.5	0.020
52	34	Antagarh	East Bhanupratappur	Devgaon To Baihasalebhat	Antagarh	PF	P954	498.268	0.5	0.025
53	34	Antagarh	East Bhanupratappur	Devgaon To Baihasalebhat	Antagarh	RF	774	662.606	0.5	0.033
54	34	Antagarh	East Bhanupratappur	Devgaon To Baihasalebhat	Antagarh	PF	P1010	869.95	0.5	0.043
55	34	Antagarh	East Bhanupratappur	Devgaon To Baihasalebhat	Antagarh	RF	783	942.082	0.5	0.047
56	34	Antagarh	East Bhanupratappur	Devgaon To Baihasalebhat	Antagarh	RF	775	1220.611	0.5	0.061
57	34	Antagarh	East Bhanupratappur	Devgaon To Baihasalebhat	Antagarh	RF	788	1826.949	0.5	0.091
58	34	Antagarh	East Bhanupratappur	Devgaon To Baihasalebhat	Antagarh	RF	777	1837.038	0.5	0.092
59	34	Antagarh	East Bhanupratappur	Devgaon To Baihasalebhat	Antagarh	RF	776	1843.98	0.5	0.092
60	34	Antagarh	East Bhanupratappur	Devgaon To Baihasalebhat	Antagarh	RF	778	2379.483	0.5	0.119
61	34	Antagarh	East Bhanupratappur	Devgaon To Baihasalebhat	Antagarh	RF	772	3204.357	0.5	0.160
Total-										
62	15	Antagarh	East Bhanupratappur	Kadahikhodra To Badebijodi	Antagarh FDC	RF	42	52133.406	0.5	2.607
63	17	Antagarh	East Bhanupratappur	Badetopal To Podagaon	Antagarh FDC	PF	FDC 736	1236.092	0.5	0.062
64	17	Antagarh	East Bhanupratappur	Badetopal To Podagaon	Antagarh FDC	PF	FDC P939	512.933	0.5	0.026
					Antagarh FDC	PF	FDC	1289.798	0.5	0.064



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.)
							P939			
65	19	Antagarh	East Bhanupratappur	Matla B To Mandagaon	Antagarh FDC	PF	FDC P935	2179.436	0.5	0.109
66	21	Antagarh	East Bhanupratappur	Perondi To Mandagaon	Antagarh FDC	PF	FDC P933	4031.854	0.5	0.202
67	22	Antagarh	East Bhanupratappur	Surewahi To Bhaissasur	Antagarh FDC	PF	FDC P942	1294.863	0.5	0.065
68	23	Antagarh	East Bhanupratappur	Antagarh To Kodagaon	Antagarh FDC	PF	FDC P938	322.381	0.5	0.016
69	25	Antagarh	East Bhanupratappur	Godari To Kaleparas	Antagarh FDC	PF	FDC P964	747.525	0.5	0.037
70	28	Antagarh	East Bhanupratappur	Talabeda To Tadoki	Antagarh FDC	PF	FDC P951	1266.808	0.5	0.063
Total-										
71	49	Durgkondal	East Bhanupratappur	Jhitkatola To Perrekodo	Bhanupratapur	RF	608	496.695	0.5	0.025
72	49	Durgkondal	East Bhanupratappur	Jhitkatola To Perrekodo	Bhanupratapur	PF	P834	109.019	0.5	0.005
Total-										
73	48	Durgkondal	East Bhanupratappur	Jhitkatola To Perrekodo	Bhanupratapur FDC	PF	FDC 853	1458.837	0.5	0.073
74	50	Durgkondal	East Bhanupratappur	Jhitkatola To Perrekodo	Bhanupratapur FDC	PF	FDC P836	229.867	0.5	0.011
Total-										
75	36	Durgkondal	East Bhanupratappur	Durgkondal To Sadhumichagaon	Durgkondal	RF	638	3856.498	0.5	0.193
76	36	Durgkondal	East Bhanupratappur	Durgkondal To Sadhumichagaon	Durgkondal	RF	640	2069.598	0.5	0.103
77	36	Durgkondal	East Bhanupratappur	Durgkondal To Sadhumichagaon	Durgkondal	PF	P898	658.878	0.5	0.033
78	36	Durgkondal	East Bhanupratappur	Durgkondal To Sadhumichagaon	Durgkondal	PF	P900	860.615	0.5	0.043
79	36	Durgkondal	East Bhanupratappur	Durgkondal To Sadhumichagaon	Durgkondal	PF	P903	948.822	0.5	0.047
80	37	Durgkondal	East Bhanupratappur	Sadhumichagaon To Surungdoh	Durgkondal	PF	P902	954.275	0.5	0.048

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.)
81	38	Durgkondal	East Bhanupratappur	Sadhumichagaon To Surungdoh	Durgukondal	PF	P914	371.720	0.5	0.019
82	38	Durgkondal	East Bhanupratappur	Sadhumichagaon To Surungdoh	Durgukondal	PF	P915	806.767	0.5	0.040
83	40	Durgkondal	East Bhanupratappur	Sadhumichagaon To Pachangi	Durgukondal	PF	P921	1408.587	0.5	0.070
84	41	Durgkondal	East Bhanupratappur	Sadhumichagaon To Pachangi	Durgukondal	PF	P929	552.998	0.5	0.028
85	42	Durgkondal	East Bhanupratappur	Pachangi To Hamatwahi	Durgukondal	PF	P927	1465.437	0.5	0.073
86	45	Durgkondal	East Bhanupratappur	Karaki To Kondruj	Durgukondal	PF	P913	642.659	0.5	0.032
87	46	Durgkondal	East Bhanupratappur	Jadekhurse To Hanpatri	Durgukondal	RF	623	1366.197	0.5	0.068
88	46	Durgkondal	East Bhanupratappur	Jadekhurse To Hanpatri	Durgukondal	RF	624	3137.590	0.5	0.157
89	47	Durgkondal	East Bhanupratappur	Jadekhurse To Hanpatri	Durgukondal	RF	625	2081.900	0.5	0.104
90	47	Durgkondal	East Bhanupratappur	Jadekhurse To Hanpatri	Durgukondal	RF	626	2797.916	0.5	0.141
91	47	Durgkondal	East Bhanupratappur	Jadekhurse To Hanpatri	Durgukondal	PF	P863	707.110	0.5	0.035
92	49	Durgkondal	East Bhanupratappur	Hatkondal To Jhitkatola	Durgukondal	PF	P847	556.251	0.5	0.028
93	49	Durgkondal	East Bhanupratappur	Jhitkatola To Perrekodo	Durgukondal	PF	P848	890.120	0.5	0.045
94	49	Durgkondal	East Bhanupratappur	Jhitkatola To Perrekodo	Durgukondal	PF	P849	539.570	0.5	0.027
Total-								26673.508	0.5	1.334
95	35	Durgkondal	East Bhanupratappur	Durgkondal To Sadhumichagaon	Durgukondal FDC	PF	FDC P875	1281.644	0.5	0.064
96	39	Durgkondal	East Bhanupratappur	Sadhumichagaon To Pachangi	Durgukondal FDC	PF	FDC P919	540.182	0.5	0.027
97	43	Durgkondal	East Bhanupratappur	Pachangi To Hamatwahi	Durgukondal FDC	PF	FDC P925	2610.443	0.5	0.131
Total-								4432.269	0.5	0.222
Grand Total-								112463.842	0.5	5.623



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	1	Kanker	Antagarh	Karmari To Bandapal	Bandapal	BIJ	334	88.311	0.5	0.004
2	1	Kanker	Antagarh	Karmari To Bandapal	Kiskodo	BIJ	173	85.807	0.5	0.004
3	1	Kanker	Antagarh	Karmari To Bandapal	Kiskodo	BIJ	177	23.124	0.5	0.001
4	2	Kanker	Antagarh	Karmari To Bandapal	Kiskodo	BIJ	68	35.483	0.5	0.002
5	2	Kanker	Antagarh	Karmari To Bandapal	Kiskodo	CJJ	133	67.416	0.5	0.003
6	2	Kanker	Antagarh	Karmari To Bandapal	Kiskodo	CJJ	55	19.156	0.5	0.001
7	2	Kanker	Antagarh	Karmari To Bandapal	Kiskodo	CJJ	63	50.169	0.5	0.003
8	2	Kanker	Antagarh	Karmari To Bandapal	Kongera	BIJ	146	94.706	0.5	0.005
9	2	Kanker	Antagarh	Karmari To Bandapal	Kongera	BIJ	150	140.146	0.5	0.007
10	2	Kanker	Antagarh	Karmari To Bandapal	Kongera	BIJ	159	125.942	0.5	0.006
11	3	Kanker	Antagarh	Karmari To Bandapal	Kongera	BIJ	134	178.909	0.5	0.009
12	3	Kanker	Antagarh	Karmari To Bandapal	Kongera	BIJ	139	51.184	0.5	0.003
13	3	Kanker	Antagarh	Karmari To Bandapal	Kongera	BIJ	84	154.415	0.5	0.008
14	3	Kanker	Antagarh	Karmari To Bandapal	Kongera	BIJ	86	174.157	0.5	0.009
15	4	Kanker	Antagarh	Karmari To Bandapal	Karmari	BIJ	69	98.288	0.5	0.005
16	4	Kanker	Antagarh	Karmari To Bandapal	Mechanar	CJJ	102	119.201	0.5	0.006
17	4	Kanker	Antagarh	Karmari To Bandapal	Mechanar	CJJ	145	10.821	0.5	0.001
18	4	Kanker	Antagarh	Karmari To Bandapal	Mechanar	CJJ	65	18.272	0.5	0.001
19	4	Kanker	Antagarh	Karmari To Bandapal	Mechanar	CJJ	96	19.058	0.5	0.001
20	4	Kanker	Antagarh	Karmari To Bandapal	Mechanar	CJJ	98	75.905	0.5	0.004
21	5	Kanker	Antagarh	Matla B To Karmari	Karmari	BIJ	129	81.078	0.5	0.004
22	5	Kanker	Antagarh	Matla B To Karmari	Karmari	BIJ	89	48.254	0.5	0.002



Table B - Area statement for proposed forest Patches – Revenue Forest land (Chhote / Bade Jhad ka langal)

Sl No.	Patch	District	Block	Route Name	Village	Type	Khasra No	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
23	6	Kanker	Antagarh	Matla B To Karmari	Budhakhursai	BIJ	122	47.379	0.5	0.002
24	6	Kanker	Antagarh	Matla B To Karmari	Budhakhursai	BIJ	161	742.970	0.5	0.036
25	6	Kanker	Antagarh	Matla B To Karmari	Budhakhursai	BIJ	56	62.634	0.5	0.003
26	6	Kanker	Antagarh	Matla B To Karmari	Budhakhursai	BIJ	57	28.786	0.5	0.001
27	6	Kanker	Antagarh	Matla B To Karmari	Budhakhursai	BIJ	58	67.661	0.5	0.003
28	6	Kanker	Antagarh	Matla B To Karmari	Budhakhursai	BIJ	59	47.128	0.5	0.002
29	7	Kanker	Antagarh	Matla B To Karmari	Matla(B)	CJJ	118	37.754	0.5	0.002
30	7	Kanker	Antagarh	Matla B To Karmari	Matla(B)	CJJ	120	34.693	0.5	0.002
31	8	Kanker	Antagarh	Arra To Matla B	Matla(B)	BIJ	30	75.599	0.5	0.004
32	8	Kanker	Antagarh	Arra To Matla B	Matla(B)	BIJ	88/2	264.487	0.5	0.013
33	9	Kanker	Antagarh	Arra To Matla B	Kotkodo	BIJ	107	65.764	0.5	0.003
34	9	Kanker	Antagarh	Arra To Matla B	Kotkodo	BIJ	87	35.306	0.5	0.002
35	10	Kanker	Antagarh	Arra To Matla B	Tamorra	CJJ	39	34.786	0.5	0.002
36	11	Kanker	Antagarh	Arra To Churegaon	Koranhur	CJJ	11	27.176	0.5	0.001
37	12	Kanker	Antagarh	Amabeda To Badetevada	Badeteoda	BIJ	232	57.701	0.5	0.003
38	12	Kanker	Antagarh	Amabeda To Badetevada	Badeteoda	CJJ	217	44.287	0.5	0.002
39	12	Kanker	Antagarh	Amabeda To Badetevada	Badeteoda	CJJ	230	88.541	0.5	0.004
40	12	Kanker	Antagarh	Amabeda To Badetevada	Badeteoda	CJJ	231	22.861	0.5	0.001
41	12	Kanker	Antagarh	Amabeda To Badetevada	Badeteoda	CJJ	266	112.943	0.5	0.006
42	12	Kanker	Antagarh	Amabeda To Badetevada	Badeteoda	CJJ	542	107.796	0.5	0.005
43	12	Kanker	Antagarh	Amabeda To Badetevada	Badeteoda	CJJ	546	51.437	0.5	0.003
44	12	Kanker	Antagarh	Nagarbeda To Fufagaon	Nagarbeda	CJJ	194	33.708	0.5	0.002
45	12	Kanker	Antagarh	Nagarbeda To Fufagaon	Nagarbeda	CJJ	50	101.308	0.5	0.005



Table B - Area statement for proposed forest Patches - Revenue Forest land (Chhote / Bade Jhad ka langal)

Sl No.	Patch	District	Block	Route Name	Village	Type	Khasra No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
46	12	Kanker	Antagarh	Nagarbada To Fufagaon	Nagarbada	CJJ	54	76.700	0.5	0.004
47	13	Kanker	Antagarh	Tumasnar To Timnar	Rajpur	CJJ	30	108.115	0.5	0.005
48	13	Kanker	Antagarh	Tumasnar To Timnar	Rajpur	CJJ	43	39.081	0.5	0.002
49	13	Kanker	Antagarh	Useli To Tumasnar	Tumasnar	CJJ	170	76.045	0.5	0.004
50	13	Kanker	Antagarh	Useli To Tumasnar	Tumasnar	CJJ	186	118.634	0.5	0.006
51	13	Kanker	Antagarh	Useli To Tumasnar	Tumasnar	CJJ	42	110.531	0.5	0.006
52	13	Kanker	Antagarh	Useli To Tumasnar	Useli	BJJ	155	106.032	0.5	0.005
53	13	Kanker	Antagarh	Useli To Tumasnar	Useli	BJJ	220	28.291	0.5	0.001
54	13	Kanker	Antagarh	Useli To Tumasnar	Useli	BJJ	49	117.983	0.5	0.006
55	13	Kanker	Antagarh	Useli To Tumasnar	Useli	BJJ	51	80.124	0.5	0.004
56	14	Kanker	Antagarh	Bodagaon To Belondee	Belondi	BJJ	67	83.743	0.5	0.004
57	14	Kanker	Antagarh	Bodagaon To Belondee	Chichgaon	BJJ	163	83.218	0.5	0.004
58	14	Kanker	Antagarh	Bodagaon To Belondee	Chichgaon	BJJ	194	44.537	0.5	0.002
59	14	Kanker	Antagarh	Bodagaon To Belondee	Chichgaon	CJJ	170	20.421	0.5	0.001
60	14	Kanker	Antagarh	Bodagaon To Belondee	Chichgaon	CJJ	172	10.220	0.5	0.001
61	14	Kanker	Antagarh	Bodagaon To Belondee	Chichgaon	CJJ	191	109.760	0.5	0.005
62	14	Kanker	Antagarh	Bodagaon To Belondee	Chichgaon	CJJ	200	12.892	0.5	0.001
63	14	Kanker	Antagarh	Bodagaon To Belondee	Lohtar	BJJ	1	30.387	0.5	0.002
64	14	Kanker	Antagarh	Bodagaon To Belondee	Lohtar	BJJ	3	53.596	0.5	0.003
65	14	Kanker	Antagarh	Bodagaon To Belondee	Neelihar	BJJ	113	145.499	0.5	0.007
66	14	Kanker	Antagarh	Bodagaon To Belondee	Neelihar	BJJ	17	161.322	0.5	0.008
67	16	Kanker	Antagarh	Antagarh To Himoda	Antagarh	BJJ	442	411.171	0.5	0.021
68	16	Kanker	Antagarh	Antagarh To Himoda	Antagarh	CJJ	309	297.346	0.5	0.015



Table B - Area statement for proposed forest Patches - Revenue Forest land (Chhote / Bade Jhad ka langal)

Sl No.	Patch	District	Block	Route Name	Village	Type	Khasra No	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
69	16	Kanker	Antagarh	Antagarh Block To Himoda	Antagarh	CJJ	369	437.475	0.5	0.022
70	16	Kanker	Antagarh	Antagarh To Himoda	Antagarh	BJJ	379	534.704	0.5	0.027
71	16	Kanker	Antagarh	Antagarh To Himoda	Antagarh	BJJ	413	104.451	0.5	0.005
72	16	Kanker	Antagarh	Antagarh To Himoda	Antagarh	BJJ	415	202.271	0.5	0.01
73	16	Kanker	Antagarh	Antagarh To Himoda	Antagarh	BJJ	425	158.164	0.5	0.008
74	16	Kanker	Antagarh	Antagarh To Himoda	Antagarh	CJJ	372	81.795	0.5	0.004
75	16	Kanker	Antagarh	Badetopal To Antagarh	Badetopal	BJJ	379	84.140	0.5	0.004
76	17	Kanker	Antagarh	Masbaras To Podagaon	Podagaon	CJJ	883	173.903	0.5	0.009
77	18	Kanker	Antagarh	Bulawand To Kanagao	Bulawand	BJJ	34	451.852	0.5	0.023
78	18	Kanker	Antagarh	Kanagao To Mandagaon	Kanagao	BJJ	178	147.031	0.5	0.007
79	18	Kanker	Antagarh	Bulawand To Kanagao	Kanagao	BJJ	283	248.259	0.5	0.012
80	18	Kanker	Antagarh	Kanagao To Mandagaon	Kanagao	BJJ	49	283.290	0.5	0.014
81	18	Kanker	Antagarh	Kanagao To Mandagaon	Kanagao	BJJ	66	81.776	0.5	0.004
82	18	Kanker	Antagarh	Kanagao To Mandagaon	Kanagao	CJJ	190	13.086	0.5	0.001
83	18	Kanker	Antagarh	Masbaras To Podagaon	Masbaras	BJJ	355	32.717	0.5	0.002
84	18	Kanker	Antagarh	Masbaras To Bulawand	Masbaras	CJJ	115	73.321	0.5	0.004
85	18	Kanker	Antagarh	Masbaras To Podagaon	Podagaon	CJJ	656/1	90.623	0.5	0.005
86	19	Kanker	Antagarh	Mandagaon To Amodhi	Amodi	CJJ	266/1	11.871	0.5	0.001
87	19	Kanker	Antagarh	Mandagaon To Amodhi	Mandagaon	BJJ	91/4	233.015	0.5	0.012
88	19	Kanker	Antagarh	Jethhegaon To Mandagaon	Mandagaon	CJJ	90/4	246.498	0.5	0.012
89	20	Kanker	Antagarh	Jethhegaon To Mandagaon	Jethhegaon	CJJ	476	124.334	0.5	0.006
90	20	Kanker	Antagarh	Jethhegaon To Mandagaon	Jethhegaon	CJJ	491	45.983	0.5	0.002
91	20	Kanker	Antagarh	Jethhegaon To Mandagaon	Jethhegaon	CJJ	495	186.532	0.5	0.009



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.)
92	20	Kanker	Antagarh	Jethhegaon To Amodhi	Nelsod	BJJ	13	452.688	0.5	0.023
93	20	Kanker	Antagarh	Jethhegaon To Amodhi	Nelsod	BJJ	19	136.136	0.5	0.007
94	20	Kanker	Antagarh	Jethhegaon To Amodhi	Nelsod	BJJ	2/1	363.297	0.5	0.018
95	20	Kanker	Antagarh	Jethhegaon To Amodhi	Nelsod	BJJ	2/2	78.802	0.5	0.004
96	22	Kanker	Antagarh	Surewahi To Perondi	Bhainsasur	BJJ	159	192.373	0.5	0.01
97	22	Kanker	Antagarh	Surewahi To Perondi	Bhainsasur	BJJ	160	217.237	0.5	0.011
98	22	Kanker	Antagarh	Bhaisasur To Surewahi	Bhainsasur	BJJ	573	199.100	0.5	0.01
99	22	Kanker	Antagarh	Bhaisasur To Surewahi	Bhainsasur	CJJ	694	66.143	0.5	0.003
100	22	Kanker	Antagarh	Bhaisasur To Surewahi	Surewahi	BJJ	106	181.547	0.5	0.009
101	22	Kanker	Antagarh	Bhaisasur To Surewahi	Surewahi	BJJ	120	30.604	0.5	0.002
102	22	Kanker	Antagarh	Surewahi To Perondi	Surewahi	BJJ	72	386.350	0.5	0.018
103	22	Kanker	Antagarh	Bhaisasur To Surewahi	Surewahi	CJJ	353	625.159	0.5	0.031
104	23	Kanker	Antagarh	Bhaisasur To Temrupani	Bhainsasur	BJJ	1037	245.105	0.5	0.012
105	23	Kanker	Antagarh	Bhaisasur To Temrupani	Bhainsasur	BJJ	1056	430.697	0.5	0.022
106	23	Kanker	Antagarh	Bhaisasur To Surewahi	Bhainsasur	BJJ	793	106.408	0.5	0.005
107	23	Kanker	Antagarh	Kodagaon To Temrupani	Kodagaon	CJJ	101	612.605	0.5	0.031
108	23	Kanker	Antagarh	Kodagaon To Temrupani	Kodagaon	BJJ	102	93.000	0.5	0.005
109	23	Kanker	Antagarh	Kodagaon To Temrupani	Kodagaon	CJJ	69	179.083	0.5	0.009
110	23	Kanker	Antagarh	Kodagaon To Temrupani	Kodagaon	CJJ	99	316.756	0.5	0.016
111	23	Kanker	Antagarh	Kodagaon To Antagarh	KUHACHE	BJJ	36	73.557	0.5	0.004
112	23	Kanker	Antagarh	Kodagaon To Antagarh	KUHACHE	BJJ	64/1	273.601	0.5	0.014
113	23	Kanker	Antagarh	Bhaisasur To Temrupani	Temrupani	BJJ	1	365.356	0.5	0.018
114	23	Kanker	Antagarh	Kodagaon To Temrupani	Temrupani	BJJ	197	279.408	0.5	0.014



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.)
115	23	Kanker	Antagarh	Kodagaon To Temrupani	Temrupani	BIJ	198	75.990	0.5	0.004
116	23	Kanker	Antagarh	Kodagaon To Temrupani	Temrupani	BIJ	200	127.891	0.5	0.006
117	24	Kanker	Antagarh	Bondanar To Gondbinapal	Ghotulbeda	BIJ	12	135.164	0.5	0.007
118	25	Kanker	Antagarh	Navagaon To Godari	Nawagaon	CJJ	327	16.309	0.5	0.001
119	25	Kanker	Antagarh	Navagaon To Godari	Nawagaon	CJJ	328	68.053	0.5	0.003
120	25	Kanker	Antagarh	Navagaon To Antagarh	Nawagaon	CJJ	6	38.906	0.5	0.002
121	26	Kanker	Antagarh	Kaleparas To Amagaon	Aamagaon	CJJ	11	94.584	0.5	0.005
122	26	Kanker	Antagarh	Kaleparas To Amagaon	Kaleparas	CJJ	253	26.716	0.5	0.001
123	26	Kanker	Antagarh	Sarandi To Adhanar	Sarandi	BIJ	631	54.187	0.5	0.003
124	26	Kanker	Antagarh	Sarandi To Adhanar	Sarandi	CJJ	645	113.237	0.5	0.006
125	26	Kanker	Antagarh	Sarandi To Adhanar	Sarandi	CJJ	690	104.745	0.5	0.005
126	26	Kanker	Antagarh	Sarandi To Adhanar	Sarandi	CJJ	781	43.607	0.5	0.002
127	26	Kanker	Antagarh	Sarandi To Adhanar	Sarandi	CJJ	782	14.919	0.5	0.001
128	27	Kanker	Antagarh	Bondanar To Tadoki	Bondanar	BIJ	200	127.918	0.5	0.006
129	27	Kanker	Antagarh	Bondanar To Gondbinapal	Bondanar	BIJ	73	99.855	0.5	0.005
130	28	Kanker	Antagarh	Talabeda To Tadoki	Mangtasalebhat	BIJ	52	39.681	0.5	0.002
131	29	Kanker	Antagarh	Talabeda To Tadoki	Padbeda	BIJ	233	136.124	0.5	0.007
132	30	Kanker	Antagarh	Kosronda To Kolar	Kosronda	BIJ	230	265.505	0.5	0.013
133	30	Kanker	Antagarh	Kosronda To Talabeda	Kosronda	CJJ	270	137.268	0.5	0.007
Total -							133	17950.917	0.5	0.898
134	35	Kanker	Durgkondal	Durgkondal To Sadhumichagaon	Palachur	CJJ	57	178.275	0.5	0.009
135	35	Kanker	Durgkondal	Durgkondal To Sadhumichagaon	Palachur	CJJ	58/1	26.036	0.5	0.001
136	37	Kanker	Durgkondal	Sadhumichagaon To Gudum	Sadhumichagaon	CJJ	77	60.430	0.5	0.003

Table B - Area statement for proposed forest Patches - Revenue Forest land (Chhote / Bade Jhad ka Jangal)

SI No.	Patch	District	Block	Route Name	Village	Type	Khasra No	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
137	39	Kanker	Durgkondal	Pachangi To Sadhumichagaon	Gumdidih	CJJ	44	181.846	0.5	0.009
138	39	Kanker	Durgkondal	Saradhudhamre To Pachangi	Kondo	BJJ	101/1	853.027	0.5	0.043
139	41	Kanker	Durgkondal	Pachangi To Sadhumichagaon	Chikhli	CJJ	125	169.830	0.5	0.008
140	41	Kanker	Durgkondal	Pachangi To Sadhumichagaon	Chikhli	CJJ	121	59.642	0.5	0.003
141	41	Kanker	Durgkondal	Pachangi To Sadhumichagaon	Chikhli	CJJ	129	72.004	0.5	0.004
142	41	Kanker	Durgkondal	Pachangi To Sadhumichagaon	Dodadekadar	CJJ	170	58.004	0.5	0.003
143	41	Kanker	Durgkondal	Pachangi To Sadhumichagaon	Dodadekadar	CJJ	152	37.813	0.5	0.002
144	41	Kanker	Durgkondal	Pachangi To Sadhumichagaon	Dodadekadar	CJJ	64/1	520.819	0.5	0.026
145	43	Kanker	Durgkondal	Mangahoor To Hamatwahi	Khedegaon	CJJ	24	129.103	0.5	0.006
146	43	Kanker	Durgkondal	Mangahoor To Hamatwahi	Khedegaon	CJJ	47	34.206	0.5	0.002
147	43	Kanker	Durgkondal	Mangahoor To Hamatwahi	Khedegaon	CJJ	46	42.623	0.5	0.002
148	43	Kanker	Durgkondal	Mangahoor To Hamatwahi	Khedegaon	CJJ	62	92.820	0.5	0.005
149	43	Kanker	Durgkondal	Mangahoor To Hamatwahi	Khedegaon	BJJ	111	29.278	0.5	0.001
150	44	Kanker	Durgkondal	Karkapal To Hamatwahi	Palvi	BJJ	19	302.417	0.5	0.015
151	44	Kanker	Durgkondal	Karkapal To Hamatwahi	Palvi	BJJ	22	266.825	0.5	0.013
Total -							18	3114.998	0.5	0.155
Grand Total -							151	21065.915	0.5	1.053



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

Point	Patch	Latitud in D:M:S	Longitud in D:M:S	Point	Patch	Latitud in D:M:S	Longitud in D:M:S
P-1	1	19°49'41.02160"	81°21'31.46198"	P-51	4	19°52'08.78270"	81°19'38.54227"
P-2	1	19°49'39.37398"	81°21'33.42561"	P-52	4	19°52'05.23611"	81°19'44.25678"
P-3	1	19°49'39.34509"	81°21'33.43370"	P-53	4	19°52'01.72327"	81°19'48.54309"
P-4	1	19°49'36.42572"	81°21'39.55916"	P-54	4	19°52'11.52951"	81°19'32.21119"
P-5	1	19°49'33.66000"	81°21'45.78177"	P-55	4	19°52'10.18188"	81°19'35.27594"
P-6	1	19°49'33.24365"	81°21'52.59852"	P-56	4	19°51'52.00287"	81°20'01.71980"
P-7	1	19°49'32.93039"	81°21'59.46351"	P-57	4	19°51'48.35977"	81°20'03.49248"
P-8	1	19°49'32.74054"	81°22'06.33173"	P-58	4	19°51'44.47854"	81°20'06.48809"
P-9	1	19°49'32.54214"	81°22'13.19313"	P-59	4	19°51'44.21284"	81°20'06.73218"
P-10	1	19°49'32.69879"	81°22'16.66450"	P-60	4	19°52'01.06632"	81°19'49.84770"
P-11	1	19°49'39.34509"	81°21'33.43370"	P-61	4	19°52'00.80853"	81°19'50.41384"
P-12	1	19°49'33.09648"	81°21'32.16330"	P-62	4	19°51'58.11748"	81°19'57.88061"
P-13	1	19°49'30.38695"	81°21'30.74846"	P-63	4	19°51'57.79556"	81°19'58.43273"
P-14	1	19°49'30.56069"	81°21'30.58213"	P-64	4	19°51'59.24695"	81°19'54.29921"
P-15	1	19°49'36.53116"	81°21'33.27829"	P-65	4	19°51'58.51670"	81°19'56.79244"
P-16	1	19°49'39.39162"	81°21'33.29168"	P-66	5	19°52'36.11370"	81°19'10.81599"
P-17	1	19°49'32.69878"	81°22'16.66450"	P-67	5	19°52'30.96907"	81°19'14.94287"
P-18	1	19°49'32.99361"	81°22'19.68427"	P-68	5	19°52'29.42261"	81°19'15.71804"
P-19	1	19°49'42.12047"	81°21'28.01825"	P-69	5	19°52'29.42261"	81°19'15.71804"
P-20	1	19°49'41.52671"	81°21'30.87287"	P-70	5	19°52'27.00943"	81°19'16.84252"
P-21	1	19°49'41.52671"	81°21'30.87287"	P-71	5	19°52'27.00943"	81°19'16.84252"
P-22	1	19°49'41.02160"	81°21'31.46198"	P-72	5	19°52'25.56451"	81°19'17.49110"
P-23	2	19°50'55.25650"	81°21'01.90873"	P-73	6	19°53'23.03764"	81°18'51.42698"
P-24	2	19°50'50.80281"	81°21'06.91761"	P-74	6	19°53'10.22226"	81°19'06.35342"
P-25	2	19°50'45.93574"	81°21'11.44060"	P-75	6	19°53'13.97954"	81°19'04.48071"
P-26	2	19°50'40.89689"	81°21'15.73391"	P-76	6	19°53'01.42618"	81°19'12.23334"
P-27	2	19°50'36.49989"	81°21'20.72438"	P-77	6	19°52'51.71677"	81°19'10.79249"
P-28	2	19°50'35.00360"	81°21'21.08499"	P-78	6	19°52'47.51948"	81°19'10.34737"
P-29	2	19°50'23.32352"	81°21'17.45301"	P-79	6	19°53'22.80354"	81°18'54.97707"
P-30	2	19°50'22.68174"	81°21'16.44482"	P-80	6	19°53'22.39465"	81°18'57.06023"
P-31	2	19°50'03.46778"	81°20'54.31749"	P-81	6	19°53'24.14428"	81°18'48.92802"



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Point	Patch	Latitud in D:M:S	Longitud in D:M:S	Point	Patch	Latitud in D:M:S	Longitud in D:M:S
P-32	2	19°50'01.76143"	81°20'55.61733"	P-82	6	19°53'23.58370"	81°18'49.72103"
P-33	2	19°50'25.59338"	81°21'19.63406"	P-83	6	19°53'27.96559"	81°18'46.87900"
P-34	2	19°50'25.04072"	81°21'19.32973"	P-84	6	19°53'25.82261"	81°18'47.36109"
P-35	2	19°50'30.07331"	81°21'19.78551"	P-85	6	19°53'29.71878"	81°18'46.61207"
P-36	2	19°50'28.46516"	81°21'19.60478"	P-86	6	19°53'28.21585"	81°18'46.86902"
P-37	2	19°51'06.05717"	81°20'52.86807"	P-87	7	19°54'02.76745"	81°18'42.99345"
P-38	2	19°51'04.03197"	81°20'55.32033"	P-88	7	19°53'57.17096"	81°18'46.36830"
P-39	2	19°51'11.56519"	81°20'47.49389"	P-89	7	19°53'54.96759"	81°18'45.95870"
P-40	2	19°51'08.06416"	81°20'50.56602"	P-90	7	19°53'50.10190"	81°18'44.52167"
P-41	2	19°51'03.49821"	81°20'56.00810"	P-91	7	19°53'43.67157"	81°18'45.25984"
P-42	2	19°50'58.81620"	81°20'59.50678"	P-92	7	19°53'37.52380"	81°18'47.09442"
P-43	3	19°51'21.67866"	81°20'39.95576"	P-93	7	19°53'32.32061"	81°18'46.82801"
P-44	3	19°51'17.24391"	81°20'43.90650"	P-94	7	19°53'54.14739"	81°18'45.73773"
P-45	3	19°51'23.39785"	81°20'38.14649"	P-95	7	19°53'52.96497"	81°18'45.38721"
P-46	3	19°51'22.20400"	81°20'39.37260"	P-96	7	19°53'54.87975"	81°18'45.93503"
P-47	3	19°51'35.87725"	81°20'22.83426"	P-97	7	19°53'50.10190"	81°18'44.52167"
P-48	3	19°51'31.46222"	81°20'24.36091"	P-98	8	19°54'48.48383"	81°18'39.89012"
P-49	3	19°51'29.73702"	81°20'28.68179"	P-99	8	19°54'42.52148"	81°18'42.41518"
P-50	3	19°51'24.70156"	81°20'36.83263"	P-100	8	19°54'36.13317"	81°18'42.22986"
P-101	8	19°54'29.79825"	81°18'42.98339"	P-151	12	20°03'06.10397"	81°19'42.28976"
P-102	8	19°54'26.54963"	81°18'44.44575"	P-152	12	20°03'06.17495"	81°19'42.19210"
P-103	8	19°54'18.64866"	81°18'42.96346"	P-153	12	20°03'00.55313"	81°19'38.82677"
P-104	8	19°54'18.54683"	81°18'42.91444"	P-154	12	20°02'56.44409"	81°19'33.59131"
P-105	8	19°54'26.54963"	81°18'44.44575"	P-155	12	20°02'53.20442"	81°19'27.63366"
P-106	8	19°54'15.82885"	81°18'42.35305"	P-156	12	20°02'49.90145"	81°19'24.44284"
P-107	9	19°55'18.51346"	81°18'16.79327"	P-157	12	20°03'45.54294"	81°17'50.08512"
P-108	9	19°55'12.92323"	81°18'20.04674"	P-158	12	20°03'46.56774"	81°17'48.42076"
P-109	9	19°55'06.70656"	81°18'21.04917"	P-159	12	20°03'43.81044"	81°17'58.92738"
P-110	9	19°55'00.58461"	81°18'22.46856"	P-160	12	20°03'43.69468"	81°17'59.84905"
P-111	9	19°54'55.65245"	81°18'25.81156"	P-161	12	20°03'45.37457"	81°17'50.36120"
P-112	9	19°55'33.50965"	81°18'16.14001"	P-162	12	20°03'45.01972"	81°17'51.05121"
P-113	9	19°55'27.01182"	81°18'15.91063"	P-163	12	20°03'45.01972"	81°17'51.05121"
P-114	9	19°55'20.56548"	81°18'15.74922"	P-164	12	20°03'45.37457"	81°17'50.36120"

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Point	Patch	Latitud in D:M:S	Longitud in D:M:S	Point	Patch	Latitud in D:M:S	Longitud in D:M:S
P-115	9	19°55'18.51346"	81°18'16.79327"	P-165	12	20°03'46.96797"	81°17'47.55944"
P-116	9	19°55'35.63994"	81°18'16.28182"	P-166	12	20°03'49.00355"	81°17'44.81737"
P-117	9	19°55'33.50965"	81°18'16.14001"	P-167	12	20°03'39.68020"	81°18'18.15952"
P-118	9	19°55'36.77729"	81°18'16.41737"	P-168	12	20°03'40.33361"	81°18'14.53306"
P-119	9	19°55'35.63994"	81°18'16.28182"	P-169	12	20°03'39.70407"	81°18'22.16439"
P-120	10	19°56'45.28720"	81°18'34.08001"	P-170	12	20°03'39.98788"	81°18'20.42478"
P-121	10	19°56'39.26605"	81°18'32.30600"	P-171	12	20°05'01.30767"	81°21'25.33385"
P-122	10	19°56'33.85731"	81°18'32.20486"	P-172	12	20°04'59.89045"	81°21'25.29564"
P-123	10	19°56'28.47010"	81°18'35.17851"	P-173	12	20°05'17.15931"	81°21'27.30297"
P-124	10	19°56'26.70862"	81°18'35.30632"	P-174	12	20°05'17.12244"	81°21'27.00402"
P-125	10	19°56'46.40224"	81°18'34.01022"	P-175	12	20°05'19.26445"	81°21'26.01834"
P-126	10	19°56'45.28720"	81°18'34.08001"	P-176	12	20°05'18.58718"	81°21'26.17086"
P-127	11	19°58'28.78429"	81°18'28.81025"	P-177	13	20°07'38.83371"	81°21'31.94308"
P-128	11	19°58'23.84343"	81°18'24.33819"	P-178	13	20°07'45.30688"	81°21'31.40634"
P-129	11	19°58'18.03354"	81°18'21.26982"	P-179	13	20°07'50.45045"	81°21'27.40668"
P-130	11	19°58'12.14818"	81°18'18.33892"	P-180	13	20°07'56.53617"	81°21'25.90413"
P-131	11	19°58'06.01719"	81°18'16.11641"	P-181	13	20°08'01.55662"	81°21'22.70880"
P-132	11	19°58'03.99157"	81°18'16.10969"	P-182	13	20°08'06.93344"	81°21'22.33711"
P-133	11	19°58'03.99157"	81°18'16.10969"	P-183	13	20°08'46.00113"	81°21'35.45887"
P-134	11	19°57'57.97091"	81°18'16.46971"	P-184	13	20°08'50.09120"	81°21'30.99585"
P-135	11	19°57'57.97091"	81°18'16.46971"	P-185	13	20°08'06.93344"	81°21'22.33711"
P-136	11	19°57'51.57267"	81°18'17.10871"	P-186	13	20°08'11.16400"	81°21'25.36122"
P-137	11	19°57'49.40570"	81°18'19.47389"	P-187	13	20°08'16.33167"	81°21'29.47352"
P-138	11	19°58'29.43503"	81°18'29.44322"	P-188	13	20°08'21.48265"	81°21'33.53907"
P-139	11	19°58'28.78429"	81°18'28.81025"	P-189	13	20°08'27.93415"	81°21'34.36613"
P-140	12	20°03'15.89732"	81°19'31.44618"	P-190	13	20°08'30.40051"	81°21'34.53767"
P-141	12	20°03'10.86239"	81°19'35.80022"	P-191	13	20°06'32.97678"	81°22'02.06259"
P-142	12	20°03'06.85165"	81°19'41.17125"	P-192	13	20°06'30.48748"	81°22'04.45747"
P-143	12	20°03'03.44528"	81°19'47.03468"	P-193	13	20°06'23.87857"	81°22'09.55176"
P-144	12	20°02'58.67347"	81°19'51.70188"	P-194	13	20°06'23.35218"	81°22'10.76893"
P-145	12	20°02'53.85146"	81°19'56.31637"	P-195	13	20°06'59.16627"	81°21'46.94553"
P-146	12	20°02'48.41411"	81°19'58.98692"	P-196	13	20°06'58.71674"	81°21'47.66558"
P-147	12	20°02'49.66838"	81°19'24.51010"	P-197	13	20°07'00.27632"	81°21'40.76123"

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Point	Patch	Latitud in D:M:S	Longitud in D:M:S	Point	Patch	Latitud in D:M:S	Longitud in D:M:S
P-148	12	20°02'54.03406"	81°19'29.46679"	P-198	13	20°07'00.25384"	81°21'40.75714"
P-149	12	20°02'57.58282"	81°19'35.18955"	P-199	13	20°07'31.87646"	81°21'33.50630"
P-150	12	20°03'02.16931"	81°19'39.71855"	P-200	13	20°07'35.45886"	81°21'33.18622"
P-201	13	20°08'39.35902"	81°21'36.03095"	P-251	14	20°06'30.96208"	81°18'49.18058"
P-202	13	20°08'42.01680"	81°21'38.33465"	P-252	14	20°06'38.82970"	81°18'37.38858"
P-203	13	20°08'50.44309"	81°21'30.89913"	P-253	14	20°06'36.10780"	81°18'41.48797"
P-204	13	20°08'51.18103"	81°21'30.38967"	P-254	14	20°06'57.27741"	81°18'18.56032"
P-205	13	20°09'00.63295"	81°21'14.60639"	P-255	14	20°06'52.99659"	81°18'21.75361"
P-206	13	20°09'00.88288"	81°21'10.56256"	P-256	15	20°06'03.63254"	81°12'56.02750"
P-207	13	20°09'00.37127"	81°21'15.94149"	P-257	15	20°06'01.05075"	81°12'49.98972"
P-208	13	20°09'00.26147"	81°21'16.37935"	P-258	15	20°05'58.56469"	81°12'44.47327"
P-209	14	20°06'42.62128"	81°16'30.69337"	P-259	15	20°05'57.35327"	81°12'37.86285"
P-210	14	20°06'43.98178"	81°16'37.42705"	P-260	15	20°05'55.90751"	81°12'31.20698"
P-211	14	20°06'45.30985"	81°16'44.16828"	P-261	15	20°05'53.50295"	81°12'24.80760"
P-212	14	20°06'47.09205"	81°16'50.79222"	P-262	15	20°05'51.05475"	81°12'18.42815"
P-213	14	20°06'45.88343"	81°16'57.49164"	P-263	15	20°05'50.92341"	81°12'17.20490"
P-214	14	20°06'43.38543"	81°17'03.81154"	P-264	15	20°06'03.71688"	81°12'56.09290"
P-215	14	20°06'46.48283"	81°17'09.29735"	P-265	15	20°06'05.13556"	81°13'25.87828"
P-216	14	20°06'49.75106"	81°17'15.23899"	P-266	15	20°05'59.24337"	81°13'24.06419"
P-217	14	20°06'54.50327"	81°17'19.92182"	P-267	15	20°06'00.76331"	81°13'25.70463"
P-218	14	20°06'56.01677"	81°17'26.30258"	P-268	15	20°06'05.82137"	81°13'29.09298"
P-219	14	20°06'57.99106"	81°17'32.09242"	P-269	15	20°06'08.63787"	81°13'34.28823"
P-220	14	20°06'57.99106"	81°17'32.09242"	P-270	15	20°06'12.21062"	81°13'36.81013"
P-221	14	20°06'59.25287"	81°17'36.69940"	P-271	15	20°06'12.90630"	81°13'36.66156"
P-222	14	20°06'58.59701"	81°17'43.47945"	P-272	15	20°06'45.81072"	81°14'15.04321"
P-223	14	20°06'59.17767"	81°17'50.20208"	P-273	15	20°06'48.89071"	81°14'18.46734"
P-224	14	20°07'01.76970"	81°17'56.51173"	P-274	15	20°06'47.48790"	81°14'24.93930"
P-225	14	20°07'03.88104"	81°18'02.89469"	P-275	15	20°06'44.01637"	81°14'30.76439"
P-226	14	20°07'03.23945"	81°18'09.73314"	P-276	15	20°06'41.09694"	81°14'36.89255"
P-227	14	20°07'00.73208"	81°18'15.77982"	P-277	15	20°06'43.19811"	81°14'43.22334"
P-228	14	20°06'57.27741"	81°18'18.56032"	P-278	15	20°06'39.27096"	81°14'48.16728"
P-229	14	20°06'34.66400"	81°15'55.97284"	P-279	15	20°06'33.79379"	81°14'51.03313"
P-230	14	20°06'35.27266"	81°16'02.56513"	P-280	15	20°06'29.94924"	81°14'51.62915"

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Point	Patch	Latitud in D:M:S	Longitud in D:M:S	Point	Patch	Latitud in D:M:S	Longitud in D:M:S
P-231	14	20°06'37.68092"	81°16'08.81524"	P-281	15	20°06'03.65140"	81°12'56.04213"
P-232	14	20°06'38.82630"	81°16'15.59267"	P-282	15	20°06'06.63653"	81°13'00.84940"
P-233	14	20°06'40.39390"	81°16'21.75281"	P-283	15	20°06'04.91965"	81°13'07.37184"
P-234	14	20°06'34.02690"	81°20'17.69246"	P-284	15	20°06'05.61296"	81°13'14.13622"
P-235	14	20°06'33.72881"	81°20'20.55537"	P-285	15	20°06'09.56398"	81°13'19.57544"
P-236	14	20°06'33.53750"	81°19'45.85230"	P-286	15	20°06'10.79913"	81°13'26.30046"
P-237	14	20°06'35.81004"	81°19'47.39146"	P-287	15	20°06'16.30230"	81°13'40.44466"
P-238	14	20°06'43.96893"	81°20'09.87922"	P-288	15	20°06'18.23627"	81°13'34.03499"
P-239	14	20°06'42.52246"	81°20'09.81169"	P-289	15	20°06'19.60202"	81°13'27.52741"
P-240	14	20°06'40.34317"	81°19'51.84555"	P-290	15	20°06'20.20120"	81°13'20.72032"
P-241	14	20°06'40.65870"	81°19'52.46415"	P-291	15	20°06'20.89449"	81°13'13.91213"
P-242	14	20°06'46.81347"	81°19'56.57593"	P-292	15	20°06'26.84532"	81°13'13.46814"
P-243	14	20°06'47.09568"	81°19'56.76200"	P-293	15	20°06'30.12505"	81°13'18.52367"
P-244	14	20°06'34.77681"	81°20'14.00268"	P-294	15	20°06'30.19640"	81°13'18.60267"
P-245	14	20°06'34.02690"	81°20'17.69246"	P-295	15	20°06'30.19640"	81°13'18.60267"
P-246	14	20°06'47.09568"	81°19'56.76200"	P-296	15	20°06'33.58236"	81°13'15.54393"
P-247	14	20°06'47.46783"	81°19'56.96621"	P-297	15	20°06'38.84002"	81°13'15.56985"
P-248	14	20°06'32.53913"	81°18'46.81884"	P-298	15	20°06'43.69301"	81°13'17.65319"
P-249	14	20°06'31.96851"	81°18'47.67339"	P-299	15	20°06'43.19454"	81°13'23.69589"
P-250	14	20°06'31.96851"	81°18'47.67339"	P-300	15	20°06'45.51727"	81°13'29.97394"
P-301	15	20°06'48.58853"	81°13'33.23113"	P-351	18	20°07'29.52810"	81°05'49.57285"
P-302	15	20°06'45.76940"	81°13'38.10860"	P-352	18	20°07'55.74238"	81°04'42.87183"
P-303	15	20°06'46.94635"	81°13'43.39473"	P-353	18	20°07'54.01652"	81°04'47.53935"
P-304	15	20°06'50.20782"	81°13'48.50035"	P-354	18	20°07'29.52810"	81°05'49.57285"
P-305	15	20°06'49.67713"	81°13'52.65696"	P-355	18	20°07'29.19609"	81°05'41.03484"
P-306	15	20°06'48.96032"	81°13'59.35989"	P-356	18	20°08'13.92625"	81°04'00.49172"
P-307	15	20°06'51.76637"	81°14'03.86654"	P-357	18	20°08'11.33033"	81°04'14.01796"
P-308	15	20°06'55.20329"	81°14'04.58614"	P-358	18	20°08'04.98403"	81°04'19.89147"
P-309	15	20°06'50.41442"	81°14'07.95887"	P-359	18	20°08'02.59503"	81°04'20.96366"
P-310	15	20°06'47.91743"	81°14'03.30357"	P-360	18	20°07'44.28181"	81°05'03.53136"
P-311	15	20°06'45.51657"	81°14'04.40825"	P-361	18	20°07'44.36243"	81°05'03.08879"
P-312	15	20°06'43.18137"	81°14'10.70425"	P-362	18	20°08'44.71735"	81°07'57.29368"
P-313	15	20°06'45.81072"	81°14'15.04321"	P-363	18	20°08'44.65791"	81°07'56.16882"

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Point	Patch	Latitud in D:M:S	Longitud in D:M:S	Point	Patch	Latitud in D:M:S	Longitud in D:M:S
P-314	16	20°06'05.29706"	81°10'08.06478"	P-364	18	20°08'26.12682"	81°06'55.91603"
P-315	16	20°06'08.55725"	81°10'08.98041"	P-365	18	20°08'25.43893"	81°06'53.51271"
P-316	16	20°06'05.32243"	81°10'08.10765"	P-366	18	20°08'46.11468"	81°08'08.30458"
P-317	16	20°05'57.07056"	81°09'34.08990"	P-367	18	20°08'45.01726"	81°08'03.88708"
P-318	16	20°05'57.07133"	81°09'34.08146"	P-368	19	20°08'57.99780"	81°02'12.97525"
P-319	16	20°05'59.26865"	81°09'51.64243"	P-369	19	20°08'58.62704"	81°02'06.16329"
P-320	16	20°05'58.71409"	81°09'50.10945"	P-370	19	20°09'00.13212"	81°01'59.47204"
P-321	16	20°05'58.12983"	81°09'49.88836"	P-371	19	20°09'02.79984"	81°01'53.30043"
P-322	16	20°06'07.72983"	81°10'03.79851"	P-372	19	20°09'04.26280"	81°01'46.63813"
P-323	16	20°06'01.79605"	81°09'54.93899"	P-373	19	20°09'05.79101"	81°01'39.97030"
P-324	16	20°06'06.04515"	81°10'01.67629"	P-374	19	20°09'07.76554"	81°01'33.40883"
P-325	16	20°06'13.89061"	81°10'10.56747"	P-375	19	20°09'09.80902"	81°01'26.89645"
P-326	16	20°06'16.19717"	81°10'13.20886"	P-376	19	20°09'07.00591"	81°01'23.17451"
P-327	16	20°06'16.68650"	81°10'13.76921"	P-377	19	20°09'01.66539"	81°01'19.33651"
P-328	16	20°06'21.15318"	81°10'18.88429"	P-378	19	20°08'57.93984"	81°01'13.76240"
P-329	16	20°06'28.65513"	81°10'23.88110"	P-379	19	20°08'55.37882"	81°01'08.21685"
P-330	16	20°06'33.35950"	81°10'26.08730"	P-380	19	20°08'09.54870"	81°02'16.41586"
P-331	16	20°05'59.83948"	81°09'51.83668"	P-381	19	20°08'16.71140"	81°02'18.94638"
P-332	16	20°06'01.31696"	81°09'54.17934"	P-382	19	20°07'50.33931"	81°02'23.38064"
P-333	16	20°07'39.13108"	81°10'04.84850"	P-383	19	20°07'47.48516"	81°02'25.21815"
P-334	16	20°07'40.11354"	81°10'07.55107"	P-384	19	20°09'39.09924"	81°00'55.70359"
P-335	17	20°08'22.72239"	81°09'48.74645"	P-385	19	20°09'39.19865"	81°00'55.54201"
P-336	17	20°08'26.77684"	81°09'43.40201"	P-386	20	20°08'04.34754"	81°00'11.02017"
P-337	17	20°08'27.14978"	81°09'37.12901"	P-387	20	20°08'04.04161"	81°00'15.19934"
P-338	17	20°08'25.32239"	81°09'30.59807"	P-388	20	20°08'11.18193"	80°59'50.81613"
P-339	17	20°08'23.99454"	81°09'23.86308"	P-389	20	20°08'09.61086"	80°59'52.83816"
P-340	17	20°08'23.01360"	81°09'17.06121"	P-390	20	20°08'10.49231"	80°59'51.64252"
P-341	17	20°08'22.59104"	81°09'10.59306"	P-391	20	20°08'08.11465"	80°59'57.69440"
P-342	17	20°08'25.14351"	81°09'09.08867"	P-392	20	20°08'47.35371"	81°00'35.85123"
P-343	17	20°08'29.06122"	81°09'05.91037"	P-393	20	20°08'41.23488"	81°00'28.04214"
P-344	17	20°08'33.22183"	81°09'00.61762"	P-394	20	20°08'36.96306"	81°00'24.23202"
P-345	17	20°08'37.31577"	81°08'55.26451"	P-395	20	20°08'37.60717"	81°00'24.65555"
P-346	17	20°08'39.53490"	81°08'52.16449"	P-396	20	20°08'33.56263"	81°00'22.45913"

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Point	Patch	Latitud in D:M:S	Longitud in D:M:S	Point	Patch	Latitud in D:M:S	Longitud in D:M:S
P-347	17	20°08'41.23280"	81°08'50.31855"	P-397	20	20°08'56.15010"	81°00'47.18185"
P-348	17	20°08'41.44890"	81°08'50.05517"	P-398	20	20°08'49.03154"	81°00'37.17961"
P-349	18	20°07'36.67041"	81°06'03.45098"	P-399	20	20°08'47.35371"	81°00'35.85123"
P-350	18	20°07'31.27591"	81°05'55.19813"	P-400	20	20°08'53.66824"	81°00'41.70845"
P-401	20	20°08'52.42143"	81°00'39.33873"	P-451	23	20°05'27.45134"	81°08'36.92337"
P-402	21	20°07'35.53079"	81°00'53.37199"	P-452	23	20°05'28.95440"	81°08'43.61640"
P-403	21	20°07'31.20130"	81°00'48.25112"	P-453	23	20°05'29.45918"	81°08'47.79626"
P-404	21	20°07'26.88781"	81°00'43.10772"	P-454	23	20°06'01.26167"	81°03'58.40708"
P-405	21	20°07'22.56571"	81°00'38.05758"	P-455	23	20°06'00.53165"	81°03'52.32196"
P-406	21	20°07'17.83038"	81°00'33.37509"	P-456	23	20°05'50.63563"	81°03'30.20064"
P-407	21	20°07'13.43450"	81°00'28.32510"	P-457	23	20°05'53.57445"	81°03'39.81214"
P-408	21	20°07'12.57712"	81°00'22.05329"	P-458	23	20°05'55.47300"	81°03'44.03175"
P-409	21	20°07'13.84256"	81°00'15.38392"	P-459	23	20°05'37.27042"	81°02'58.10574"
P-410	21	20°07'15.89403"	81°00'08.99802"	P-460	23	20°05'40.06480"	81°03'00.26391"
P-411	21	20°07'13.36115"	81°00'02.85659"	P-461	23	20°05'28.07751"	81°07'21.17511"
P-412	21	20°07'14.71226"	80°59'56.78881"	P-462	23	20°05'23.44903"	81°07'22.26752"
P-413	21	20°07'08.42239"	80°59'55.57245"	P-463	23	20°05'19.17483"	81°07'23.75271"
P-414	21	20°07'05.01477"	80°59'49.80875"	P-464	23	20°05'18.95822"	81°07'23.81487"
P-415	21	20°07'00.00680"	80°59'46.53106"	P-465	23	20°05'30.42714"	81°07'19.16345"
P-416	21	20°06'53.78921"	80°59'45.62868"	P-466	23	20°05'28.07751"	81°07'21.17511"
P-417	21	20°06'48.78410"	80°59'41.34316"	P-467	23	20°05'35.91839"	81°07'10.22371"
P-418	21	20°06'43.42280"	80°59'37.52560"	P-468	23	20°05'33.53803"	81°07'15.81295"
P-419	21	20°06'39.09272"	80°59'32.56509"	P-469	23	20°05'24.80823"	81°07'27.54974"
P-420	21	20°06'33.93725"	80°59'28.79101"	P-470	23	20°05'24.32959"	81°07'37.58211"
P-421	21	20°06'27.86345"	80°59'26.56659"	P-471	23	20°05'24.25969"	81°07'38.43315"
P-422	21	20°06'23.11056"	80°59'22.00060"	P-472	23	20°05'22.25827"	81°07'50.83824"
P-423	21	20°06'22.39458"	80°59'21.20754"	P-473	23	20°05'21.69489"	81°07'53.29992"
P-424	22	20°04'34.62158"	81°01'35.14642"	P-474	23	20°05'23.47332"	81°08'24.82343"
P-425	22	20°04'38.00931"	81°01'41.01917"	P-475	23	20°05'21.95791"	81°08'19.64597"
P-426	22	20°04'41.71788"	81°01'46.65962"	P-476	23	20°06'12.10113"	81°04'39.78485"
P-427	22	20°04'46.01107"	81°01'51.77462"	P-477	23	20°06'09.07933"	81°04'33.99990"
P-428	22	20°04'50.08404"	81°01'57.10819"	P-478	23	20°06'03.90945"	81°04'21.50230"
P-429	22	20°04'53.21879"	81°02'02.91966"	P-479	23	20°06'10.35045"	81°05'53.80203"

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Point	Patch	Latitud in D:M:S	Longitud in D:M:S	Point	Patch	Latitud in D:M:S	Longitud in D:M:S
P-430	22	20°04'54.95089"	81°02'09.53024"	P-480	23	20°06'00.04946"	81°06'08.60416"
P-431	22	20°04'55.87812"	81°02'12.64341"	P-481	23	20°06'02.16195"	81°06'06.95447"
P-432	22	20°05'35.45923"	81°01'03.14356"	P-482	23	20°06'00.17836"	81°06'08.51163"
P-433	22	20°05'35.21594"	81°01'00.15604"	P-483	23	20°05'58.08378"	81°06'09.97294"
P-434	22	20°05'35.56667"	81°00'55.64187"	P-484	23	20°05'54.65520"	81°06'12.42257"
P-435	22	20°05'35.45923"	81°01'03.14356"	P-485	24	20°03'20.28111"	81°08'40.15711"
P-436	22	20°05'04.70188"	81°02'19.61150"	P-486	24	20°03'26.76927"	81°08'39.89399"
P-437	22	20°05'01.35108"	81°02'17.39969"	P-487	24	20°03'29.07939"	81°08'40.06750"
P-438	22	20°05'17.77272"	81°02'28.79857"	P-488	24	20°03'29.07939"	81°08'40.06750"
P-439	22	20°05'17.42626"	81°02'28.39246"	P-489	24	20°03'22.59632"	81°08'39.88545"
P-440	22	20°04'33.56826"	81°01'28.64274"	P-490	24	20°03'20.28111"	81°08'40.15711"
P-441	22	20°04'34.56672"	81°01'34.79903"	P-491	24	20°03'29.07939"	81°08'40.06750"
P-442	22	20°04'33.29842"	81°01'27.44823"	P-492	24	20°03'33.70001"	81°08'40.61230"
P-443	22	20°04'33.55151"	81°01'28.46336"	P-493	24	20°03'33.69643"	81°08'40.64678"
P-444	22	20°05'10.70622"	81°01'19.24702"	P-494	24	20°03'29.07939"	81°08'40.06750"
P-445	22	20°05'01.03452"	81°01'16.51230"	P-495	24	20°02'18.26939"	81°08'49.09107"
P-446	22	20°04'58.59259"	81°01'15.71951"	P-496	24	20°02'12.44266"	81°08'51.99348"
P-447	22	20°04'32.33166"	81°01'24.43610"	P-497	24	20°02'13.50814"	81°08'51.42597"
P-448	22	20°04'29.23916"	81°01'14.89066"	P-498	24	20°02'18.86618"	81°08'48.50488"
P-449	22	20°04'31.45006"	81°01'10.25570"	P-499	24	20°02'23.20696"	81°08'43.76352"
P-450	22	20°04'32.44204"	81°01'10.40649"	P-500	24	20°02'18.70409"	81°08'48.71215"
P-501	24	20°02'24.91544"	81°08'42.13725"	P-551	26	20°00'01.83987"	81°11'31.05356"
P-502	24	20°02'30.77649"	81°08'39.53428"	P-552	26	20°00'01.59856"	81°11'36.55069"
P-503	24	20°02'32.73000"	81°08'38.85757"	P-553	26	20°00'21.83838"	81°12'06.72903"
P-504	24	20°02'26.68236"	81°08'40.95904"	P-554	26	20°00'25.54911"	81°12'01.12379"
P-505	24	20°01'05.77240"	81°09'18.92758"	P-555	26	20°00'29.68029"	81°11'55.98565"
P-506	24	20°01'07.98716"	81°09'18.24902"	P-556	26	20°00'32.44581"	81°11'49.75503"
P-507	24	20°01'12.87927"	81°09'16.43390"	P-557	26	20°00'35.23157"	81°11'43.55753"
P-508	24	20°01'16.65362"	81°09'15.06421"	P-558	26	20°00'37.40850"	81°11'41.63928"
P-509	24	20°01'22.30857"	81°09'11.76538"	P-559	26	20°00'37.40850"	81°11'41.63927"
P-510	24	20°01'17.33468"	81°09'14.60729"	P-560	26	20°00'39.69161"	81°11'39.45690"
P-511	24	20°01'25.02189"	81°09'11.15470"	P-561	26	20°00'50.28128"	81°11'12.72679"
P-512	24	20°01'26.82862"	81°09'10.73979"	P-562	26	20°00'50.58026"	81°11'13.20937"

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Point	Patch	Latitud in D:M:S	Longitud in D:M:S	Point	Patch	Latitud in D:M:S	Longitud in D:M:S
P-513	24	20°01'30.88258"	81°09'09.02913"	P-563	26	19°58'45.14546"	81°12'16.20264"
P-514	24	20°01'31.60558"	81°09'08.18496"	P-564	26	19°58'44.04457"	81°12'17.65144"
P-515	24	20°01'05.25715"	81°09'18.72120"	P-565	26	19°58'54.38844"	81°11'59.02186"
P-516	24	20°01'03.27196"	81°09'18.57340"	P-566	26	19°58'52.30340"	81°12'02.11436"
P-517	25	20°02'58.91697"	81°11'07.56322"	P-567	26	19°58'56.85910"	81°11'58.78134"
P-518	25	20°03'05.39754"	81°11'07.17193"	P-568	26	19°58'55.53926"	81°11'58.71694"
P-519	25	20°03'11.31797"	81°11'04.48738"	P-569	26	19°59'01.69290"	81°12'00.38163"
P-520	25	20°03'17.67553"	81°11'03.20011"	P-570	26	19°59'01.69954"	81°12'00.27649"
P-521	25	20°03'21.84790"	81°11'01.91047"	P-571	26	19°59'02.83455"	81°12'00.21665"
P-522	25	20°02'05.16600"	81°11'09.34384"	P-572	26	19°59'03.31542"	81°12'00.14717"
P-523	25	20°02'11.39161"	81°11'07.35111"	P-573	27	19°58'20.29028"	81°09'18.28249"
P-524	25	20°02'17.80415"	81°11'06.18619"	P-574	27	19°58'26.24886"	81°09'20.47660"
P-525	25	20°02'24.19850"	81°11'04.94004"	P-575	27	19°58'32.38114"	81°09'18.19633"
P-526	25	20°02'28.94885"	81°11'05.25589"	P-576	27	19°58'38.55051"	81°09'19.55541"
P-527	25	20°03'55.21679"	81°10'34.98178"	P-577	27	19°58'44.53367"	81°09'22.25153"
P-528	25	20°03'55.74664"	81°10'34.95277"	P-578	27	19°58'50.22617"	81°09'25.52068"
P-529	25	20°03'55.74664"	81°10'34.95277"	P-579	27	19°58'56.17589"	81°09'27.86998"
P-530	25	20°03'57.63953"	81°10'35.96482"	P-580	27	19°59'02.65308"	81°09'28.52108"
P-531	25	20°04'40.87408"	81°09'58.20777"	P-581	27	19°59'09.13991"	81°09'29.05036"
P-532	25	20°04'41.91808"	81°09'57.45047"	P-582	27	19°59'15.63157"	81°09'29.51134"
P-533	26	19°59'33.15473"	81°10'55.34198"	P-583	27	19°59'22.13107"	81°09'29.81752"
P-534	26	19°59'37.18888"	81°10'50.04140"	P-584	27	19°59'28.63465"	81°09'29.80158"
P-535	26	19°59'41.06242"	81°10'44.51132"	P-585	27	19°59'35.13584"	81°09'29.90300"
P-536	26	19°59'44.97289"	81°10'39.01282"	P-586	27	19°59'41.61192"	81°09'30.54749"
P-537	26	19°59'46.94012"	81°10'36.18057"	P-587	27	19°59'48.05724"	81°09'31.48722"
P-538	26	19°59'42.73135"	81°10'41.42273"	P-588	27	19°59'54.51024"	81°09'32.36717"
P-539	26	19°59'38.86677"	81°10'46.95764"	P-589	27	20°00'00.94997"	81°09'33.34182"
P-540	26	19°59'35.15283"	81°10'52.60889"	P-590	27	20°00'07.00208"	81°09'31.97578"
P-541	26	19°59'50.83488"	81°10'31.52278"	P-591	27	20°00'09.43906"	81°09'30.30033"
P-542	26	19°59'50.03740"	81°10'35.52198"	P-592	27	20°00'30.58699"	81°09'46.86654"
P-543	26	19°59'55.21289"	81°10'39.54590"	P-593	27	20°00'26.46074"	81°09'46.06378"
P-544	26	19°59'59.47928"	81°10'44.40489"	P-594	27	20°00'33.40249"	81°09'30.06396"
P-545	26	19°59'57.77728"	81°10'50.82170"	P-595	27	20°00'33.20618"	81°09'33.49439"

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Point	Patch	Latitud in D:M:S	Longitud in D:M:S	Point	Patch	Latitud in D:M:S	Longitud in D:M:S
P-546	26	19°59'56.26462"	81°10'57.44194"	P-596	28	19°57'06.34283"	81°10'08.97602"
P-547	26	19°59'57.37769"	81°11'04.18310"	P-597	28	19°57'11.78014"	81°10'05.19706"
P-548	26	19°59'59.12804"	81°11'10.80794"	P-598	28	19°57'17.12667"	81°10'01.27604"
P-549	26	20°00'00.98647"	81°11'17.40388"	P-599	28	19°57'22.28483"	81°09'57.08466"
P-550	26	20°00'01.94766"	81°11'24.17514"	P-600	28	19°57'25.70113"	81°09'51.34274"
P-601	28	19°57'30.48971"	81°09'46.69926"	P-651	32	19°54'51.13952"	81°10'01.20315"
P-602	28	19°57'35.51477"	81°09'42.32829"	P-652	32	19°54'50.78373"	81°10'00.97362"
P-603	28	19°57'37.20018"	81°09'40.87695"	P-653	32	19°54'11.90030"	81°10'53.78434"
P-604	28	19°57'44.58576"	81°09'34.54832"	P-654	32	19°54'18.38035"	81°10'53.43946"
P-605	28	19°57'45.68826"	81°09'33.83810"	P-655	32	19°54'24.81022"	81°10'53.65872"
P-606	29	19°57'02.40026"	81°08'53.89914"	P-656	32	19°54'30.85815"	81°10'51.13388"
P-607	29	19°56'59.98576"	81°09'00.09998"	P-657	32	19°54'37.31592"	81°10'50.74856"
P-608	29	19°56'54.59866"	81°09'03.86087"	P-658	32	19°54'43.82162"	81°10'50.85163"
P-609	29	19°56'51.74234"	81°09'09.92185"	P-659	32	19°54'50.32603"	81°10'51.02384"
P-610	29	19°56'47.04102"	81°09'14.67645"	P-660	32	19°54'56.82423"	81°10'51.36273"
P-611	29	19°56'43.78790"	81°09'20.52074"	P-661	32	19°55'03.23993"	81°10'50.33572"
P-612	29	19°56'41.41175"	81°09'26.92191"	P-662	32	19°55'03.90973"	81°10'50.19461"
P-613	29	19°56'38.94794"	81°09'33.27178"	P-663	33	19°53'20.06508"	81°12'33.95779"
P-614	29	19°56'36.72476"	81°09'39.73721"	P-664	33	19°53'24.11158"	81°12'28.61086"
P-615	29	19°56'36.60494"	81°09'46.24357"	P-665	33	19°53'26.37662"	81°12'22.35156"
P-616	29	19°56'39.41746"	81°09'51.55202"	P-666	33	19°53'26.71529"	81°12'15.49844"
P-617	29	19°56'48.12824"	81°10'19.23832"	P-667	33	19°53'28.35346"	81°12'09.67764"
P-618	29	19°56'47.47491"	81°10'18.26843"	P-668	33	19°53'34.25612"	81°12'06.78395"
P-619	30	19°56'57.38218"	81°08'07.97028"	P-669	33	19°53'40.12649"	81°12'03.81901"
P-620	30	19°57'01.06592"	81°08'13.64071"	P-670	33	19°53'45.26124"	81°11'59.86004"
P-621	30	19°57'04.47459"	81°08'19.44985"	P-671	33	19°53'48.15369"	81°11'53.72432"
P-622	30	19°57'07.71146"	81°08'25.24181"	P-672	33	19°53'50.64195"	81°11'50.88814"
P-623	30	19°57'09.98974"	81°08'27.09390"	P-673	33	19°53'52.52929"	81°11'48.81844"
P-624	30	19°56'39.14759"	81°07'31.61015"	P-674	33	19°53'57.64216"	81°11'44.70164"
P-625	30	19°56'44.43471"	81°07'35.60045"	P-675	33	19°54'02.21654"	81°11'40.24319"
P-626	30	19°56'48.04106"	81°07'41.21252"	P-676	33	19°54'03.75420"	81°11'33.56298"
P-627	30	19°56'50.32530"	81°07'45.99664"	P-677	33	19°54'04.41351"	81°11'26.79555"
P-628	30	19°56'51.74033"	81°07'48.84230"	P-678	33	19°54'03.96869"	81°11'19.93438"

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Point	Patch	Latitud in D:M:S	Longitud in D:M:S	Point	Patch	Latitud in D:M:S	Longitud in D:M:S
P-629	30	19°56'32.02727"	81°07'26.44160"	P-679	33	19°54'04.93023"	81°11'13.92654"
P-630	30	19°56'39.14760"	81°07'31.61015"	P-680	34	19°49'24.30799"	81°13'09.94412"
P-631	30	19°56'55.61720"	81°08'00.97639"	P-681	34	19°49'28.98903"	81°13'05.17161"
P-632	30	19°56'56.55340"	81°08'05.59352"	P-682	34	19°49'33.73589"	81°13'00.49949"
P-633	31	19°55'42.39236"	81°10'46.17316"	P-683	34	19°49'40.21218"	81°13'00.41251"
P-634	31	19°55'48.68376"	81°10'47.92561"	P-684	34	19°49'46.66435"	81°13'00.91067"
P-635	31	19°55'55.02393"	81°10'49.35622"	P-685	34	19°49'48.22286"	81°13'07.20164"
P-636	31	19°56'01.46893"	81°10'48.44451"	P-686	34	19°49'47.30514"	81°13'13.94352"
P-637	31	19°56'07.30239"	81°10'45.56987"	P-687	34	19°49'46.62559"	81°13'20.09074"
P-638	31	19°56'12.93918"	81°10'42.13626"	P-688	34	19°49'44.74597"	81°13'26.51227"
P-639	31	19°56'18.55558"	81°10'38.66429"	P-689	34	19°49'50.49363"	81°13'25.56282"
P-640	31	19°56'24.22459"	81°10'35.28787"	P-690	34	19°49'56.72321"	81°13'23.82275"
P-641	31	19°56'25.70839"	81°10'34.42376"	P-691	34	19°50'02.23392"	81°13'20.22503"
P-642	32	19°55'03.23962"	81°10'47.39589"	P-692	34	19°50'06.38729"	81°13'14.93280"
P-643	32	19°55'02.15011"	81°10'40.61472"	P-693	34	19°50'10.85695"	81°13'09.99193"
P-644	32	19°55'02.37205"	81°10'33.86926"	P-694	34	19°50'17.14354"	81°13'09.04052"
P-645	32	19°55'04.11165"	81°10'27.28165"	P-695	34	19°50'23.63927"	81°13'09.43066"
P-646	32	19°55'04.79422"	81°10'20.68251"	P-696	34	19°50'30.13839"	81°13'09.74414"
P-647	32	19°55'03.16676"	81°10'16.36089"	P-697	34	19°50'30.28009"	81°13'09.74784"
P-648	32	19°55'03.16676"	81°10'16.36089"	P-698	34	19°50'30.28009"	81°13'09.74784"
P-649	32	19°55'00.22192"	81°10'10.22653"	P-699	34	19°50'36.78557"	81°13'09.74478"
P-650	32	19°54'56.87920"	81°10'04.42591"	P-700	34	19°50'43.29035"	81°13'09.59548"
P-701	34	19°50'49.68641"	81°13'08.64283"	P-751	34	19°52'24.04984"	81°10'13.03495"
P-702	34	19°50'51.57634"	81°13'07.84073"	P-752	34	19°52'29.73212"	81°10'10.51136"
P-703	34	19°50'51.57634"	81°13'07.84073"	P-753	34	19°52'29.93080"	81°10'09.61334"
P-704	34	19°50'57.67200"	81°13'05.43905"	P-754	34	19°52'29.93080"	81°10'09.61334"
P-705	34	19°51'04.01316"	81°13'05.50627"	P-755	34	19°52'33.85739"	81°10'04.16770"
P-706	34	19°51'10.40537"	81°13'05.97769"	P-756	34	19°52'37.75207"	81°09'58.65862"
P-707	34	19°51'14.83526"	81°13'01.87692"	P-757	34	19°52'39.66791"	81°09'55.95388"
P-708	34	19°51'16.67433"	81°12'55.60374"	P-758	34	19°52'39.66791"	81°09'55.95388"
P-709	34	19°51'22.28290"	81°12'57.96977"	P-759	34	19°52'41.70102"	81°09'53.24782"
P-710	34	19°51'22.76724"	81°12'58.45988"	P-760	34	19°52'41.70102"	81°09'53.24782"
P-711	34	19°51'22.76724"	81°12'58.45988"	P-761	34	19°52'45.98740"	81°09'48.07514"

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Point	Patch	Latitud in D:M:S	Longitud in D:M:S	Point	Patch	Latitud in D:M:S	Longitud in D:M:S
P-712	34	19°51'29.20140"	81°12'58.00981"	P-762	34	19°52'50.40884"	81°09'43.03529"
P-713	34	19°51'35.46306"	81°12'59.33714"	P-763	34	19°52'54.19285"	81°09'37.46649"
P-714	34	19°51'41.88727"	81°12'58.29237"	P-764	34	19°52'56.85962"	81°09'31.20710"
P-715	34	19°52'21.09038"	81°11'57.94465"	P-765	34	19°52'57.35024"	81°09'28.86351"
P-716	34	19°52'19.92732"	81°11'51.18771"	P-766	34	19°52'04.40794"	81°12'57.32563"
P-717	34	19°52'18.65307"	81°11'44.44657"	P-767	34	19°52'10.11648"	81°13'00.10163"
P-718	34	19°52'17.77426"	81°11'37.63309"	P-768	34	19°52'10.11648"	81°13'00.10163"
P-719	34	19°52'16.26046"	81°11'30.95487"	P-769	34	19°52'15.71518"	81°13'03.60392"
P-720	34	19°52'13.99767"	81°11'24.51180"	P-770	34	19°52'09.32521"	81°12'55.31284"
P-721	34	19°52'13.35104"	81°11'23.18287"	P-771	34	19°52'15.25757"	81°12'52.53524"
P-722	34	19°51'45.10754"	81°12'59.04032"	P-772	34	19°52'20.48055"	81°12'48.43542"
P-723	34	19°51'51.58601"	81°12'58.72791"	P-773	34	19°52'25.72715"	81°12'44.37581"
P-724	34	19°51'58.06238"	81°12'58.07865"	P-774	34	19°52'30.99597"	81°12'40.35544"
P-725	34	19°52'50.11920"	81°12'27.06658"	P-775	34	19°52'36.86797"	81°12'37.42014"
P-726	34	19°52'50.84754"	81°12'20.23372"	P-776	34	19°52'42.40539"	81°12'33.81010"
P-727	34	19°52'51.61245"	81°12'13.40722"	P-777	34	19°52'47.95107"	81°12'30.21343"
P-728	34	19°52'52.42768"	81°12'06.65969"	P-778	34	19°52'14.20098"	81°13'02.74800"
P-729	34	19°52'48.91415"	81°12'00.91754"	P-779	34	19°52'08.58220"	81°12'59.28502"
P-730	34	19°52'43.05972"	81°11'58.55091"	P-780	34	19°52'18.92638"	81°13'05.51312"
P-731	34	19°52'36.82524"	81°12'00.49540"	P-781	35	20°13'04.62131"	80°55'24.67611"
P-732	34	19°52'35.65098"	81°12'00.78097"	P-782	35	20°13'04.61273"	80°55'17.79906"
P-733	34	19°52'35.65098"	81°12'00.78097"	P-783	35	20°13'04.91456"	80°55'10.91676"
P-734	34	19°52'29.27845"	81°12'02.16644"	P-784	35	20°13'04.99700"	80°55'04.03860"
P-735	34	19°52'23.18727"	81°12'00.72220"	P-785	35	20°13'04.53433"	80°54'57.22511"
P-736	34	19°52'22.97336"	81°12'00.61471"	P-786	35	20°13'02.14902"	80°54'50.83606"
P-737	34	19°52'13.35104"	81°11'23.18287"	P-787	35	20°12'58.27761"	80°54'41.55269"
P-738	34	19°52'08.01497"	81°11'19.34366"	P-788	35	20°12'56.98089"	80°54'39.09719"
P-739	34	19°52'03.47990"	81°11'14.46444"	P-789	35	20°13'06.49643"	80°56'01.31624"
P-740	34	19°51'59.60080"	81°11'09.00289"	P-790	35	20°13'04.69930"	80°55'54.62684"
P-741	34	19°51'57.67142"	81°11'02.45960"	P-791	35	20°13'05.07600"	80°55'56.94994"
P-742	34	19°51'56.96775"	81°10'57.63483"	P-792	35	20°13'04.80336"	80°55'56.10043"
P-743	34	19°51'56.96775"	81°10'57.63483"	P-793	36	20°12'32.54546"	80°53'49.46244"
P-744	34	19°51'58.62869"	81°10'51.09105"	P-794	36	20°12'30.06875"	80°53'43.14769"

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Point	Patch	Latitud in D:M:S	Longitud in D:M:S	Point	Patch	Latitud in D:M:S	Longitud in D:M:S
P-745	34	19°52'01.06500"	81°10'44.71417"	P-795	36	20°12'27.17939"	80°53'36.99271"
P-746	34	19°52'03.31191"	81°10'38.26028"	P-796	36	20°12'25.05299"	80°53'30.48963"
P-747	34	19°52'06.00186"	81°10'32.04540"	P-797	36	20°12'24.43675"	80°53'23.63818"
P-748	34	19°52'09.76202"	81°10'26.43281"	P-798	36	20°12'24.86822"	80°53'16.83450"
P-749	34	19°52'13.39225"	81°10'20.74340"	P-799	36	20°12'25.87109"	80°53'10.02865"
P-750	34	19°52'18.53374"	81°10'16.54188"	P-800	36	20°12'24.69884"	80°53'03.30693"
P-801	36	20°12'22.89896"	80°52'56.69043"	P-851	38	20°13'52.23626"	80°49'01.81238"
P-802	36	20°12'21.21331"	80°52'50.07129"	P-852	38	20°13'58.27680"	80°49'04.26426"
P-803	36	20°12'16.94421"	80°52'44.90715"	P-853	38	20°14'03.33562"	80°49'06.76648"
P-804	36	20°12'15.19646"	80°52'43.38276"	P-854	38	20°13'29.48645"	80°48'56.84713"
P-805	36	20°12'15.19646"	80°52'43.38276"	P-855	38	20°13'34.52940"	80°48'52.50541"
P-806	36	20°12'13.30685"	80°52'37.28093"	P-856	38	20°13'20.35278"	80°49'11.82897"
P-807	36	20°12'14.54567"	80°52'30.51965"	P-857	38	20°13'23.85380"	80°49'06.19980"
P-808	36	20°12'16.17742"	80°52'23.84797"	P-858	38	20°13'26.73465"	80°49'00.03564"
P-809	36	20°12'16.65777"	80°52'21.88391"	P-859	38	20°13'26.83377"	80°48'59.82739"
P-810	36	20°12'16.65777"	80°52'21.88391"	P-860	39	20°10'44.75236"	80°49'36.78034"
P-811	36	20°12'16.88527"	80°52'15.16111"	P-861	39	20°10'40.54381"	80°49'31.52926"
P-812	36	20°12'17.98838"	80°52'08.51531"	P-862	39	20°10'35.61870"	80°49'27.16911"
P-813	36	20°12'20.10436"	80°52'02.00888"	P-863	39	20°10'31.10131"	80°49'26.62247"
P-814	36	20°12'23.57392"	80°51'56.20570"	P-864	39	20°09'43.38485"	80°49'13.21013"
P-815	36	20°12'24.88655"	80°51'49.49130"	P-865	39	20°09'50.90620"	80°49'07.08780"
P-816	36	20°12'26.52729"	80°51'42.82383"	P-866	39	20°09'44.72604"	80°49'12.10003"
P-817	36	20°12'27.02599"	80°51'35.97305"	P-867	39	20°09'22.80315"	80°49'26.34804"
P-818	36	20°12'27.88466"	80°51'29.14223"	P-868	39	20°11'19.44016"	80°50'02.74415"
P-819	36	20°12'28.81103"	80°51'22.32045"	P-869	39	20°11'11.48701"	80°49'59.68814"
P-820	36	20°12'27.30796"	80°51'15.84376"	P-870	40	20°09'35.82186"	80°48'46.62498"
P-821	36	20°12'25.24924"	80°51'09.44182"	P-871	40	20°09'31.01700"	80°48'42.08958"
P-822	36	20°12'24.64383"	80°51'02.58003"	P-872	40	20°09'27.06821"	80°48'36.62069"
P-823	36	20°12'21.55354"	80°50'56.77180"	P-873	40	20°09'23.20187"	80°48'31.09163"
P-824	36	20°12'16.46062"	80°50'52.51756"	P-874	40	20°09'21.42232"	80°48'24.63132"
P-825	36	20°12'12.11787"	80°50'47.53375"	P-875	40	20°09'20.59603"	80°48'17.81386"
P-826	36	20°12'09.73299"	80°50'41.12158"	P-876	40	20°09'18.71743"	80°48'11.24082"
P-827	36	20°12'07.26405"	80°50'34.74531"	P-877	40	20°09'15.99691"	80°48'04.98611"

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Point	Patch	Latitud in D:M:S	Longitud in D:M:S	Point	Patch	Latitud in D:M:S	Longitud in D:M:S
P-828	36	20°12'26.18438"	80°50'57.62061"	P-878	40	20°09'15.86193"	80°48'04.72713"
P-829	36	20°12'30.40185"	80°50'52.38220"	P-879	41	20°07'43.48513"	80°43'27.35884"
P-830	36	20°12'24.10737"	80°51'00.28748"	P-880	41	20°07'45.29789"	80°43'20.79414"
P-831	36	20°12'05.98095"	80°50'31.59112"	P-881	41	20°07'45.51448"	80°43'13.95650"
P-832	36	20°12'03.48529"	80°50'25.22941"	P-882	41	20°07'44.71149"	80°43'08.85118"
P-833	36	20°12'01.37317"	80°50'18.71094"	P-883	41	20°07'59.83873"	80°45'04.54782"
P-834	36	20°11'58.94184"	80°50'12.33146"	P-884	41	20°08'01.49749"	80°44'58.98458"
P-835	36	20°11'53.92333"	80°50'08.39995"	P-885	41	20°08'07.94437"	80°45'15.00323"
P-836	36	20°11'52.04985"	80°50'07.74843"	P-886	41	20°08'06.53824"	80°45'13.58922"
P-837	36	20°12'31.64902"	80°50'50.97041"	P-887	41	20°08'04.50656"	80°45'11.40295"
P-838	36	20°12'35.22367"	80°50'45.21278"	P-888	41	20°07'59.74740"	80°45'05.04747"
P-839	36	20°12'38.48893"	80°50'39.25497"	P-889	41	20°08'01.49749"	80°44'58.98458"
P-840	36	20°12'41.79254"	80°50'33.31907"	P-890	41	20°08'00.94079"	80°44'57.10331"
P-841	36	20°12'44.82059"	80°50'27.23347"	P-891	41	20°07'57.44610"	80°44'27.67876"
P-842	36	20°12'47.03546"	80°50'22.69278"	P-892	41	20°07'56.50202"	80°44'26.85293"
P-843	37	20°13'11.29161"	80°49'43.91717"	P-893	41	20°07'42.60560"	80°43'58.18606"
P-844	37	20°13'14.41939"	80°49'37.89135"	P-894	41	20°07'44.13139"	80°43'48.28703"
P-845	37	20°13'01.96275"	80°50'06.46665"	P-895	41	20°07'42.00667"	80°44'03.58499"
P-846	37	20°13'03.43665"	80°49'59.89909"	P-896	42	20°08'49.92320"	80°42'58.40892"
P-847	37	20°13'06.03753"	80°49'53.63899"	P-897	42	20°08'56.13769"	80°42'59.18377"
P-848	37	20°13'08.27774"	80°49'48.88305"	P-898	42	20°09'02.58270"	80°42'59.35984"
P-849	37	20°13'00.39322"	80°50'09.02861"	P-899	42	20°09'07.64955"	80°43'01.01177"
P-850	37	20°13'01.46343"	80°50'07.28171"	P-900	42	20°09'09.01863"	80°43'06.71241"
P-901	42	20°09'15.17932"	80°43'04.50848"	P-951	46	20°18'59.35776"	80°51'52.38278"
P-902	42	20°09'21.47131"	80°43'02.77408"	P-952	46	20°19'05.08057"	80°51'55.66376"
P-903	42	20°09'27.77792"	80°43'03.68443"	P-953	46	20°19'10.80337"	80°51'58.94481"
P-904	42	20°09'29.25088"	80°43'05.28523"	P-954	46	20°19'16.40391"	80°52'02.38517"
P-905	43	20°10'03.44234"	80°43'40.62039"	P-955	46	20°19'20.83854"	80°52'02.88060"
P-906	43	20°10'04.40610"	80°43'47.36685"	P-956	46	20°19'20.83854"	80°52'02.88060"
P-907	43	20°10'04.65982"	80°43'54.24833"	P-957	46	20°19'27.24092"	80°52'03.74442"
P-908	43	20°10'04.52959"	80°44'01.12875"	P-958	46	20°19'33.51566"	80°52'05.47432"
P-909	43	20°10'04.63013"	80°44'07.94987"	P-959	46	20°19'39.99292"	80°52'06.09616"
P-910	43	20°10'01.56907"	80°44'13.91551"	P-960	46	20°19'46.46652"	80°52'06.78536"

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Point	Patch	Latitud in D:M:S	Longitud in D:M:S	Point	Patch	Latitud in D:M:S	Longitud in D:M:S
P-911	43	20°10'00.40627"	80°44'20.64045"	P-961	46	20°19'52.88144"	80°52'07.93535"
P-912	43	20°10'05.08784"	80°44'20.53127"	P-962	46	20°19'59.32635"	80°52'08.87524"
P-913	43	20°10'10.76927"	80°44'18.32151"	P-963	46	20°20'04.68632"	80°52'09.62577"
P-914	43	20°10'15.13652"	80°44'13.25982"	P-964	47	20°20'53.38309"	80°52'26.68181"
P-915	43	20°10'20.68592"	80°44'09.89446"	P-965	47	20°20'59.34924"	80°52'29.42097"
P-916	43	20°10'16.85883"	80°44'05.10952"	P-966	47	20°21'05.14323"	80°52'32.54422"
P-917	43	20°10'10.69431"	80°44'02.90583"	P-967	47	20°21'08.89734"	80°52'38.11773"
P-918	43	20°10'05.11725"	80°43'59.65154"	P-968	47	20°21'12.04524"	80°52'44.15421"
P-919	43	20°10'04.79400"	80°43'59.54092"	P-969	47	20°21'14.45331"	80°52'50.53138"
P-920	43	20°09'52.78873"	80°43'12.23462"	P-970	47	20°21'17.34341"	80°52'56.71197"
P-921	43	20°09'52.70327"	80°43'16.66130"	P-971	47	20°21'19.94107"	80°53'03.03039"
P-922	43	20°09'55.79203"	80°43'30.36933"	P-972	47	20°21'22.27974"	80°53'09.46791"
P-923	43	20°09'56.86463"	80°43'30.63895"	P-973	47	20°20'48.66016"	80°52'24.60832"
P-924	43	20°09'56.86463"	80°43'30.63895"	P-974	47	20°20'53.56167"	80°52'26.10056"
P-925	43	20°09'57.92716"	80°43'31.54665"	P-975	47	20°20'53.38309"	80°52'26.68181"
P-926	43	20°10'03.01885"	80°43'39.03147"	P-976	47	20°21'24.50851"	80°53'14.98534"
P-927	43	20°10'02.12824"	80°43'37.17778"	P-977	47	20°21'25.09048"	80°53'21.65299"
P-928	43	20°09'57.92716"	80°43'31.54665"	P-978	47	20°21'24.21887"	80°53'28.48865"
P-929	43	20°09'58.53511"	80°43'32.32269"	P-979	47	20°21'23.31282"	80°53'35.31955"
P-930	44	20°11'49.71843"	80°45'30.17474"	P-980	47	20°21'22.29755"	80°53'42.13002"
P-931	44	20°11'46.28046"	80°45'29.35433"	P-981	47	20°21'22.92369"	80°53'48.98865"
P-932	44	20°12'01.44010"	80°45'33.41094"	P-982	47	20°21'23.38409"	80°53'55.87003"
P-933	44	20°11'58.21020"	80°45'32.14245"	P-983	47	20°21'22.75717"	80°54'02.54461"
P-934	45	20°15'32.87009"	80°47'21.52476"	P-984	47	20°21'19.66185"	80°54'08.61203"
P-935	45	20°15'33.87236"	80°47'28.30418"	P-985	47	20°21'16.06645"	80°54'14.35552"
P-936	45	20°15'36.99608"	80°47'34.32612"	P-986	47	20°21'12.37164"	80°54'20.03374"
P-937	45	20°15'41.31331"	80°47'39.38866"	P-987	47	20°21'08.67678"	80°54'25.71187"
P-938	45	20°15'42.39324"	80°47'40.31110"	P-988	47	20°21'05.05603"	80°54'31.44015"
P-939	46	20°17'59.75453"	80°51'04.34327"	P-989	47	20°21'00.42834"	80°54'36.14792"
P-940	46	20°18'05.60970"	80°51'07.05332"	P-990	47	20°20'57.92354"	80°54'42.43510"
P-941	46	20°18'09.45610"	80°51'12.47524"	P-991	47	20°20'26.26537"	80°52'16.03478"
P-942	46	20°18'13.88488"	80°51'17.27246"	P-992	47	20°20'32.30583"	80°52'18.58887"
P-943	46	20°18'19.79352"	80°51'20.13138"	P-993	47	20°20'38.55832"	80°52'20.47921"

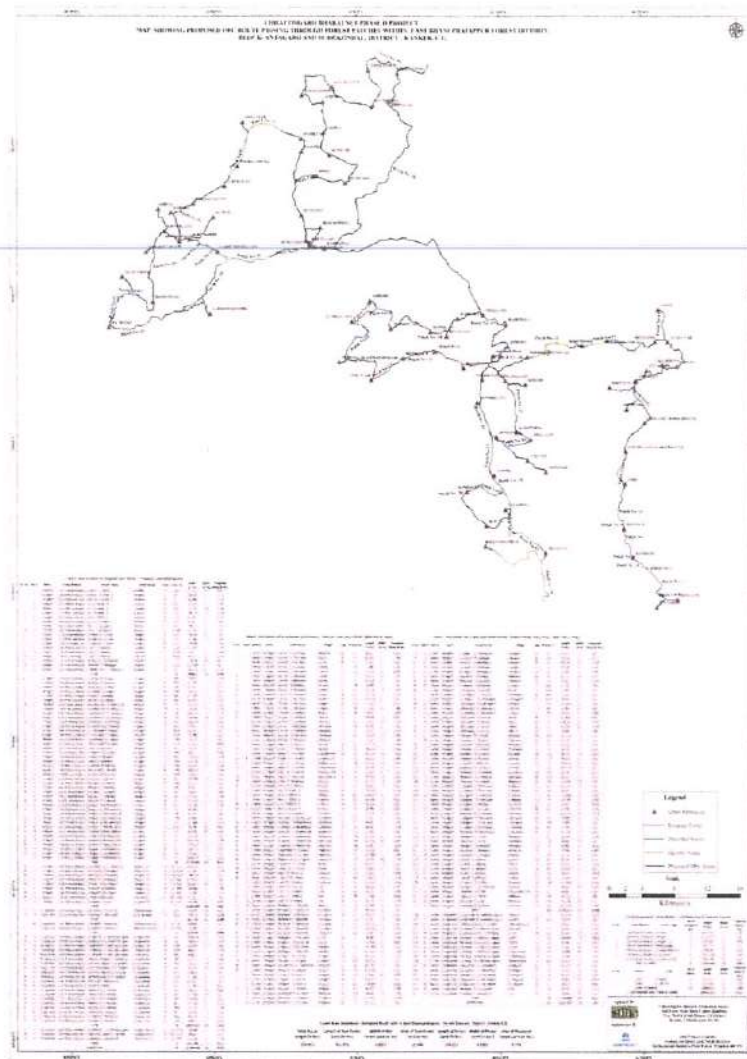
Chhattisgarh BharatNet Phase-II Project

Point	Patch	Latitud in D:M:S	Longitud in D:M:S	Point	Patch	Latitud in D:M:S	Longitud in D:M:S
P-944	46	20°18'24.98236"	80°51'23.95135"	P-994	47	20°20'44.67392"	80°52'22.83010"
P-945	46	20°18'28.83506"	80°51'29.50398"	P-995	47	20°20'47.88560"	80°52'24.26279"
P-946	46	20°18'32.26330"	80°51'35.35834"	P-996	48	20°18'00.28399"	80°56'50.86693"
P-947	46	20°18'36.61990"	80°51'38.96499"	P-997	48	20°17'59.28591"	80°56'44.20181"
P-948	46	20°18'42.31954"	80°51'42.29029"	P-998	48	20°17'57.27040"	80°56'37.65467"
P-949	46	20°18'48.02896"	80°51'45.59696"	P-999	48	20°17'57.37973"	80°56'30.94721"
P-950	46	20°18'53.69257"	80°51'48.99137"	P-1000	48	20°17'58.51445"	80°56'24.19750"
P-1001	48	20°17'56.26017"	80°56'17.99891"	P-1015	49	20°25'37.80840"	81°00'52.08873"
P-1002	48	20°17'53.65725"	80°56'11.73672"	P-1016	49	20°25'32.80261"	81°00'47.76358"
P-1003	48	20°17'49.82998"	80°56'06.16842"	P-1017	49	20°25'27.37426"	81°00'44.40462"
P-1004	48	20°17'48.62839"	80°56'04.58931"	P-1018	49	20°25'23.05821"	81°00'45.30706"
P-1005	49	20°23'58.06098"	81°01'30.64476"	P-1019	49	20°24'57.97927"	81°04'48.89337"
P-1006	49	20°23'53.38485"	81°01'35.43939"	P-1020	49	20°25'00.58782"	81°04'51.32365"
P-1007	49	20°23'48.90028"	81°01'39.71552"	P-1021	49	20°25'10.81547"	81°03'40.92416"
P-1008	49	20°23'44.27737"	81°01'41.89285"	P-1022	49	20°25'08.50906"	81°03'47.28559"
P-1009	49	20°25'09.10618"	81°02'50.32824"	P-1023	49	20°25'04.81890"	81°03'52.96279"
P-1010	49	20°25'15.06877"	81°02'47.57626"	P-1024	49	20°25'02.17292"	81°03'54.76709"
P-1011	49	20°25'21.05378"	81°02'45.10025"	P-1025	50	20°18'17.54098"	81°02'26.68136"
P-1012	49	20°25'22.64475"	81°02'38.45206"	P-1026	50	20°18'22.66456"	81°02'27.79590"
P-1013	49	20°25'23.94142"	81°02'31.70440"	P-1027	50	20°18'23.63067"	81°02'27.71164"
P-1014	49	20°25'25.25130"	81°02'28.93180"				



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

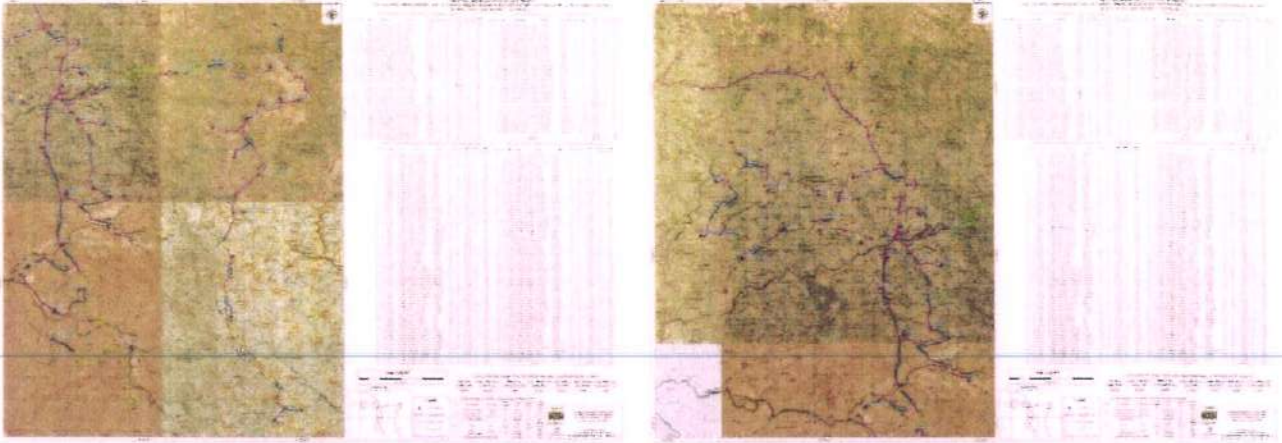
5.3.1. Map showing Geo-reference map of proposed OFC Route



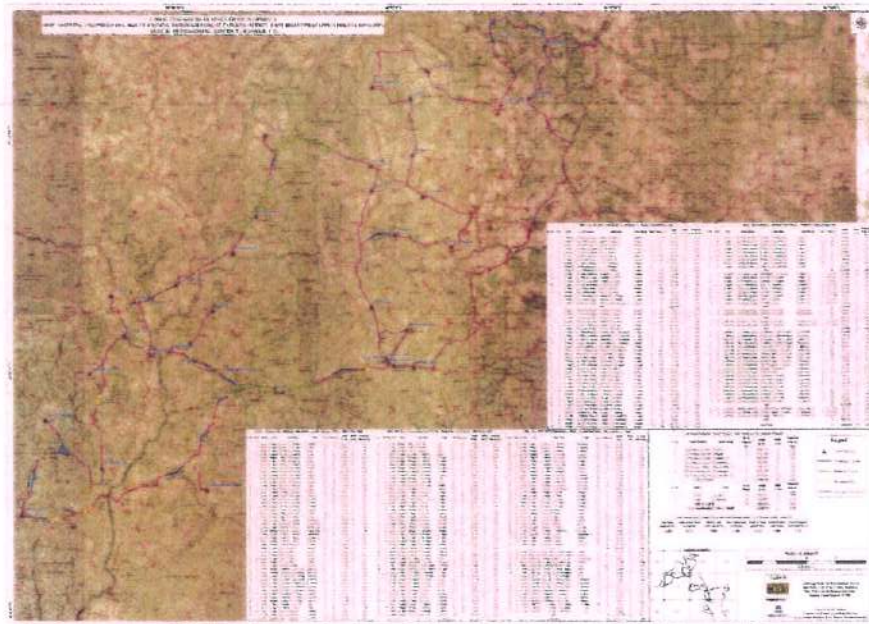
Geo-Referenced Maps of Forest Patched with in East Bhanupratappur Forest Division



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



Geo-Referenced Toposheet Map of Forest Patched Antagarh Block (part-1 and part-2) in East Bhanupratappur.



Geo-Referenced Toposheet Map of Forest Patched Durgkondal Block in East Bhanupratappur.

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