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क्रमांक/मा.चि./...6824
प्रति,

कोंडागांव, दिनांक 24.10.2019

आवेदनकर्ता,

प्राधिकृत अधिकारी,

टाटा प्रोजेक्ट लिमिटेड,

(Bharat Net Project, Office No. 402,

4th Floor, Offizo, Magneto The Mall, GE Road, Labhandi) रायपुर (छ.ग.)

विषय:- भारत सरकार की महत्वपूर्ण योजना "भारतनेट प्रोजेक्ट (A Part of Digital India) के सफल क्रियान्वयन हेतु कोंडागांव जिला के दक्षिण कोण्डागांव वनमंडल अंतर्गत माकड़ी ब्लॉक के अन्तर्गत शामिल ग्राम पंचायत के मार्ग समान्तर वनभूमि पर ऑप्टिकल फायबर केबल बिछाने विषयक वनभूमि के गैरवानिकी प्रयोजन हेतु व्यपवर्तन प्रस्ताव हेतु डी.जी.पी.एस./लीडर सर्वे रिपोर्ट के सत्यापन बाबत।

संदर्भ:- आपका पत्र क्रमांक/भानेप्रो/ओएफसी/वनभूमि/प्रस्ताव/2019-20/15, दिनांक 17/10/2019

संदर्भित पत्र द्वारा भारत सरकार की महत्वपूर्ण योजना "भारतनेट प्रोजेक्ट (A Part of Digital India) के सफल क्रियान्वयन हेतु ऑप्टिकल फायबर केबल बिछाने के लिये वन भूमि व्यपवर्तन प्रस्ताव में प्रभावित भूमि रकबा 8.011 हेक्टेयर के गैर वानिकी कार्य के उपयोग हेतु वन संरक्षण अधिनियम, 1980 के तहत 02 प्रतियों में प्रेषित डी.जी.पी.एस. सर्वे रिपोर्ट के अनुसार स्थल सत्यापन कर हस्ताक्षर उपरांत इस ज्ञापन के साथ आवश्यक कार्यवाही हेतु संलग्न प्रेषित है।

कृपया प्रकरण में उक्त परियोजना के नाम से भारत सरकार के वेब पोर्टल साईट (PARIVESH) पर रजिस्ट्रेशन ऑनलाईन पंजीयन की कार्यवाही शीघ्र पूर्ण कर इस कार्यालय को अवगत कराने का कष्ट करें, ताकि अग्रिम कार्यवाही किया जा सकें।

संलग्न :- डी.जी.पी.एस. सर्वे रिपोर्ट मूलतः एक प्रति।

वनमंडलाधिकारी
दक्षिण कोंडागांव वनमंडल
कोंडागांव

पू.क्रमांक/मा.चि./.....6825

कोंडागांव, दिनांक 24.10.2019

प्रतिलिपि :-

1. मुख्य वन संरक्षक, कांकेर वृत्त, कांकेर की ओर सूचनार्थ सादर सम्प्रेषित है।
2. कलेक्टर, जिला कोंडागांव (छ.ग.) की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है।

वनमंडलाधिकारी
दक्षिण कोंडागांव वनमंडल
कोंडागांव

CHHATTISGARH BHARATNET PHASE-II PROJECT

LiDAR/DGPS SURVEY REPORT FOR SOUTH KONDAGAON FOREST DIVISION FOR DIVERSION OF PROPOSED OFC ROUTES

Forest Division : SOUTH KONDAGAON
Forest Land (RF/PF/OA) : 6.958 Ha.
Rev. Forest Land : 1.053 Ha.
Total Proposed Diversion Area : 8.011 Ha.
Block : MAKDI
District : KONDAGAON (C.G.)

Applicant -



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

Submitted By –



TATA PROJECTS

Tata Projects Limited, Raipur (Chhattisgarh)



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1. Introduction and Background

1.1. Background

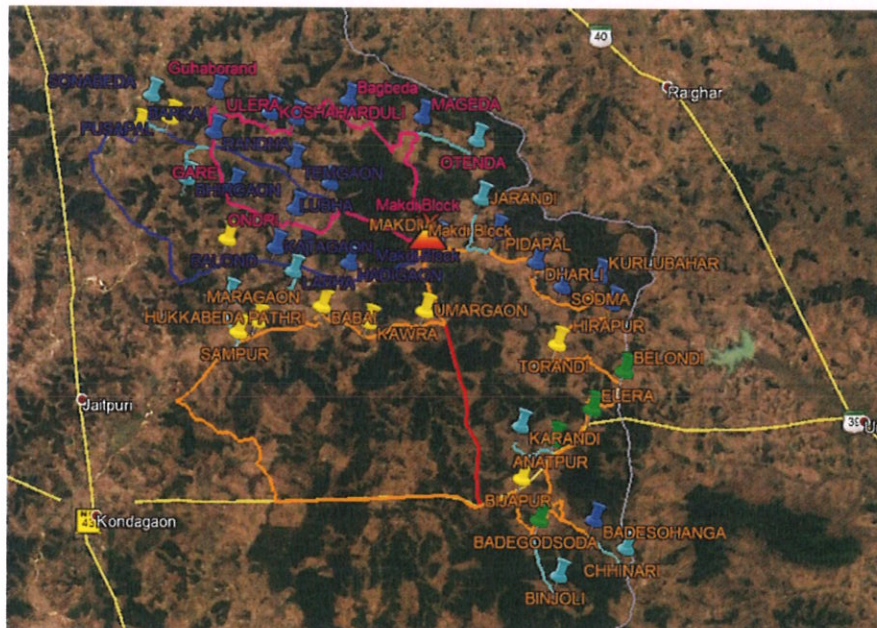
The Government of Chhattisgarh intends to setup an Optical Fibre Cable Network from the Block Head Quarters to Gram Panchayats to provide high speed broadband connectivity by connecting the 85 Blocks, 5987 Gram Panchayats across the State. The proposed network architecture for BharatNet Phase-II project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

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

The Chhattisgarh Infotech Promotion Society (CHIPS) has selected an implementation partner “**Tata Project Limited**” for BharatNet Phase-II Project. The project has been conceived with the ambitious vision of providing connectivity to the yet 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 Makdi block with in South Kondagaon Forest Division.



OFC Cable Proposed Routes in Makdi block with in South Kondagaon Forest Division.

1.3. Location

The proposed OFC Cable route in South Kondagaon Forest Division (The OFC route Makdi Block; District: Kondagaon). The Proposed OFC route length is approx. 304.220 km. The survey site passes through forest ranges Amrawati, Makdi, Mumula and Narangi of South Kondagaon Forest Division. The OFC Cable route is covered under Survey of India Toposheets 65E06, 65E09, 65 E10, 65 E13, 65 E14, 65I01 and 65I02 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

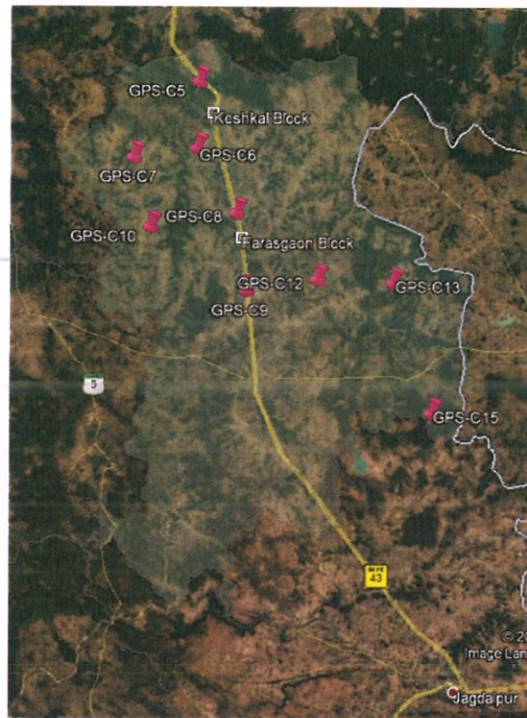
The deliverables envisaged for the assignment are described below -

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.



List of GCP's -

Sr.No	District	GCP No.	Latitude (D:M:S)	Longitude(D:M:S)	Easting	Northing
1	Kondagaon	GPS-C8	19°53'53.23568"	81°37'52.03286"	19.898121	81.631120
2	Kondagaon	GPS-C9	19°45'52.13709"	81°38'58.48422"	19.764483	81.649579
3	Kondagaon	GPS-C10	19°52'24.73357"	81°28'21.01453"	19.873537	81.472504
4	Kondagaon	GPS-C5	20°07'30.04253"	81°33'36.67022"	20.125012	81.560186
5	Kondagaon	GPS-C6	20°00'33.46696"	81°33'28.91763"	20.009296	81.558033
6	Kondagaon	GPS-C7	19°59'38.28098"	81°26'28.67564"	19.993967	81.441299
7	Kondagaon	GPS-C12	19°47'00.85993"	81°46'49.68118"	19.783572	81.780467
8	Kondagaon	GPS-C13	19°46'40.66207"	81°55'12.75413"	19.777962	81.920209
9	Kondagaon	GPS-C15	19°33'13.30931"	81°59'28.36877"	19.553697	81.991214

Leica Geosystems AG
Helmich Wild Strasse
CH-9435 Heidenburg
St. Gallen, Switzerland

Phone + 41 71 727 3131
Fax + 41 71 727 4674

- when it has to be right



GNSS Processing Report - Summary

Report created: 05/26/2019 18:07:29

Project Details

General		Customer Details		Master Coordinate System	
Project Name:	CHIPS	Customer Name:	-	Coordinate System Name:	UTMMAN
Owner:	GENOSYS INTERNATIONAL CORPORATION LIMITED	Contact Person:	-	Transformation Type:	Classical 3D
Lead Surveyor:	-	Number:	-	Residual Distribution:	None
Date Created:	05/24/2019 14:25:05	Email:	-	Ellipsoid:	WGS 1984
Last Accessed:	05/24/2019 14:25:06	Skyplot:	-	Projection Type:	UTM
Application Software:	Infinity 2.3	Website:	-	Geoid Model:	EGM_2008
				CS/CS Model:	-
Path:	D:\UNIVERSITY PROJECTS\CHIPS\CHIPS\ipj				
Size:	5,285.3 MB				
Comments:	-				

SPP Point: 9453Base_1

Processing Parameters (05/26/2019 04:43:28 - 05/26/2019 12:53:14)

Data	Selected	Used	Comments
Cut-Off Angle:	15°	15°	
Frequency:	Automatic	L1/L2/L3/L5	
Sampling Rate:	Use All	1 sec	
Satellite System:	GPS/GLONASS/BDS	GPS/GLONASS/BDS	
Ephemeric Type:	Broadcast	Broadcast	
Antenna Calibration Set:	Leica Relative	Leica Relative	
Processing Strategy			
Solution Type:	Phase Fixed	Navigation	
Solution Optimization:	Automatic	None	
Frequency to use in Ionosphere:	Automatic	Automatic	
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model	
Ionospheric Model:	Automatic	Computed	
Allow Wetlane Ric:	Automatic	No	
General Settings			
Min. Distance for Ionosphere:	15 km		
Min. Distance for Phase:	300 km		
Possible Ambiguities Fix up to:	00:00:00		
Solution (static):			

Results SPP Point: 9453Base_1

Acquisition

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Duration: 08:09:46

Antenna

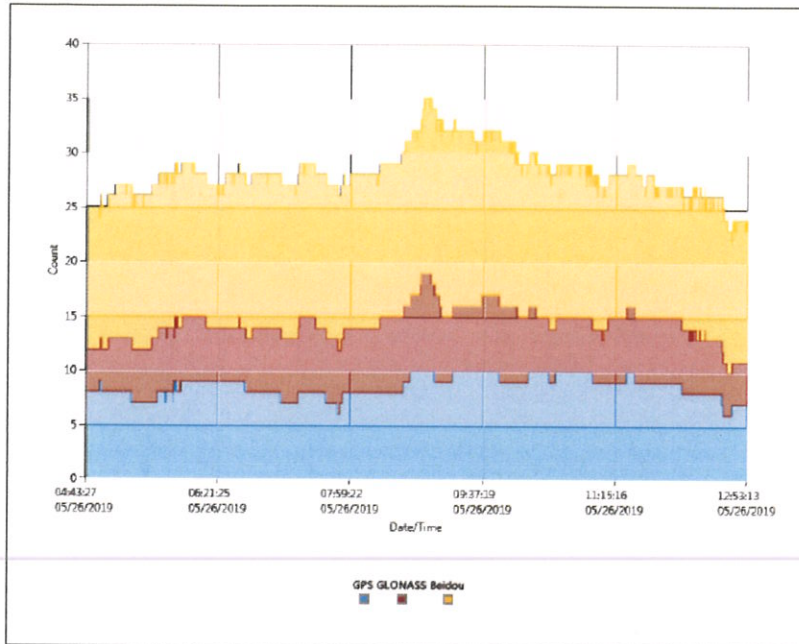
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Antenna Name / SN: L435516 / -
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Height Reading: 1.5100 m
Antenna Height: 1.5100 m

Chhattisgarh BharatNet Phase-II Project

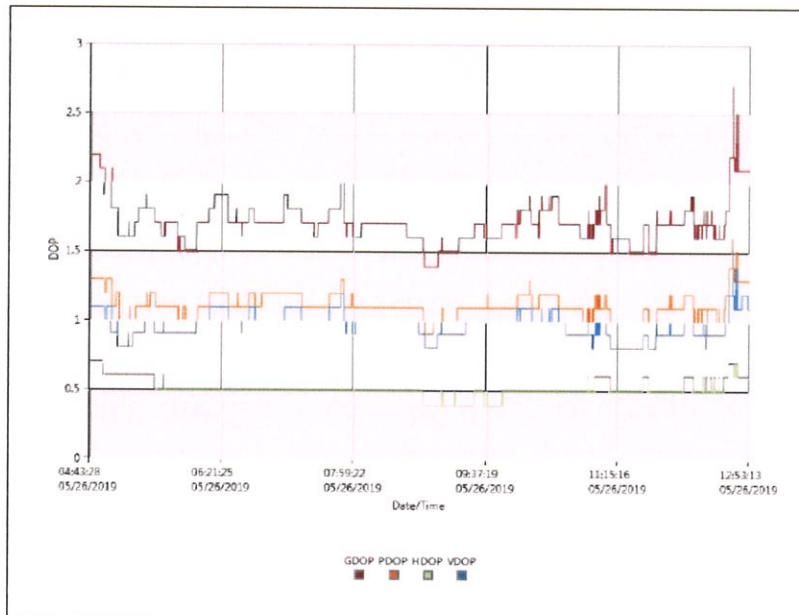
Processing Info (05/26/2019 04:43:28 - 05/26/2019 12:53:14)

Processed Date/Time: 07/31/2019 19:36:23

SVs Tracked



DOP



4.2. Mobile LiDAR (DGPS) data collection:

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



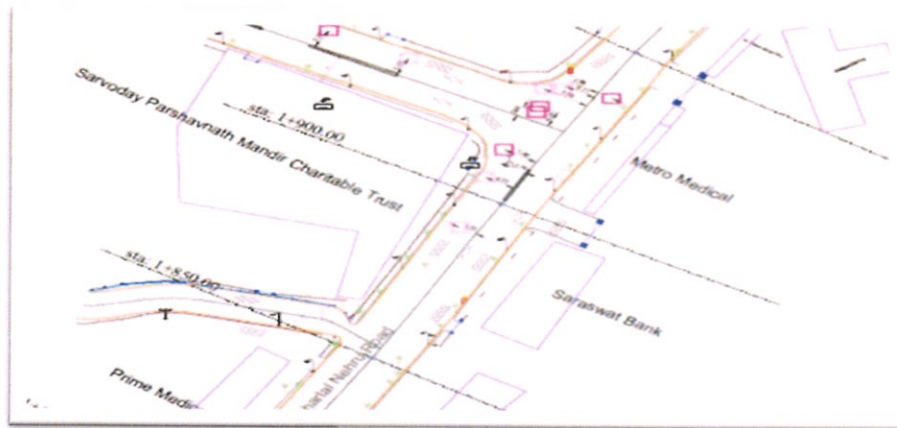
Mobile LiDAR Van

4.3. DRS / GIS Map Creation Using LiDAR data:

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



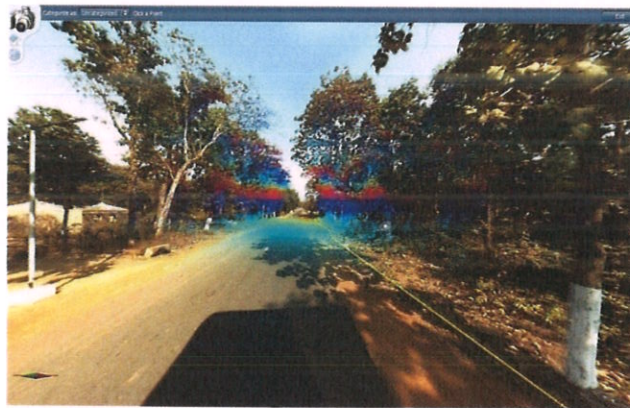
Feature Extraction on LiDAR



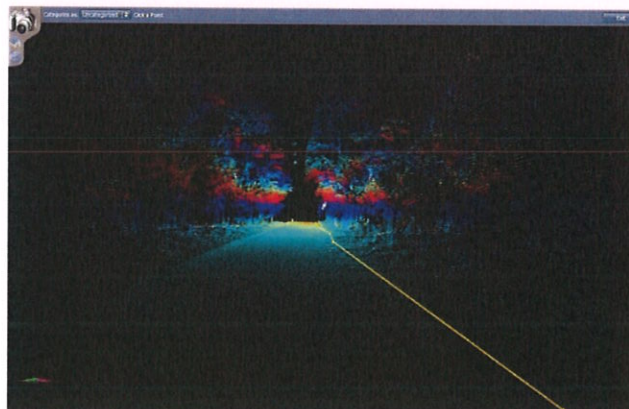
Final DRS / GIS Map

4.4. Demarcation of Proposed OFC on LiDAR data:

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



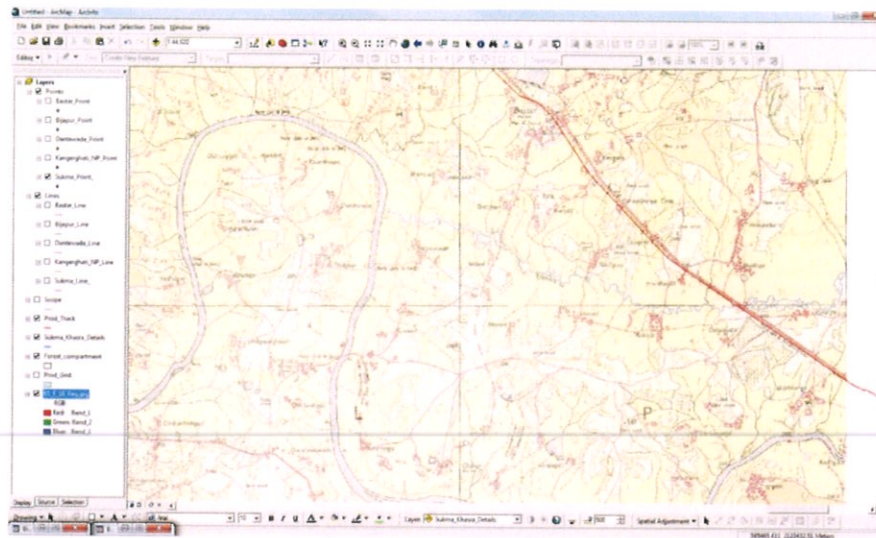
Proposed OFC Line on LiDAR Data (with Panoramic Imagery)



Proposed OFC Line on LiDAR Data only

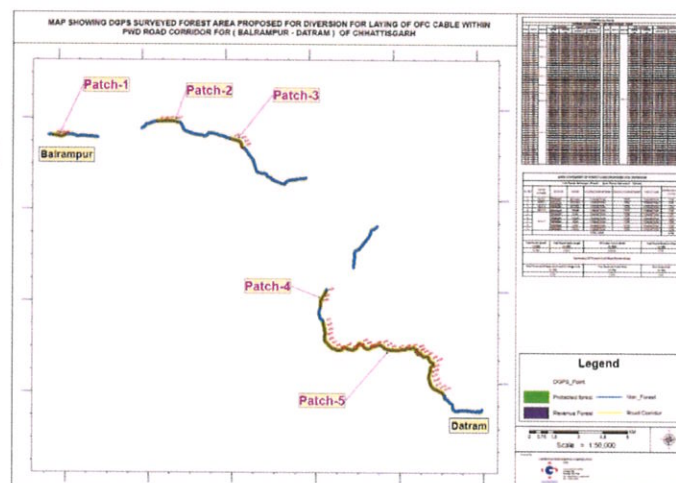
4.5. Geo-referencing of Maps:

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



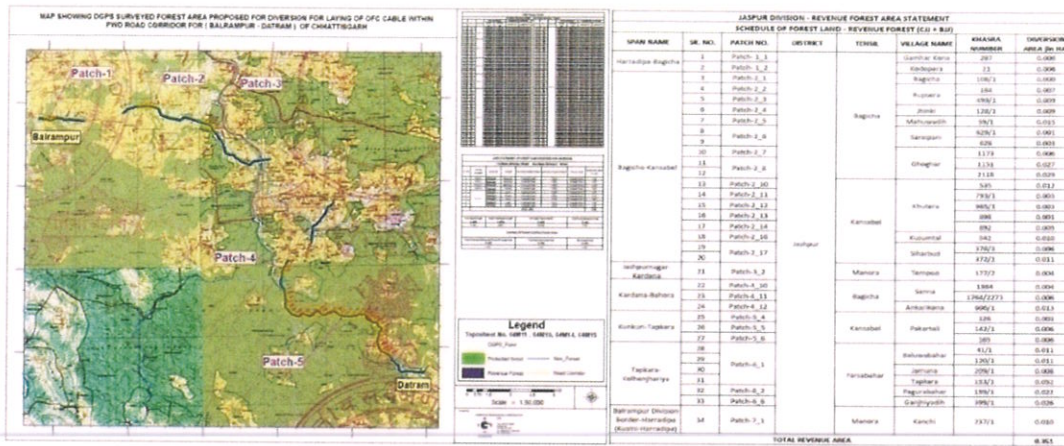
4.6. Creation of Vector Data for Forest Diversion:

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



4.7. Generation of Map and Survey Reports for Forest Diversion

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



Geo-referenced Map

Forest Area Statement

5. DGPS Survey Results

The total OFC route length is approx 304.222 km. covered Farasgaon and Keshkal block of Keshkal District. Out of this 144.002 km OFC route length is passing through non-forest Land and 160.220 km OFC route length is passing through Forest Patches hence the proposed forest area for diversion is 8.011 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. Field Photographs are in Annexure – 4.

5.1. Forest Area Statement (Annexure-1)

Forest Area Statement Makdi block of South Kondagaon Forest Division, District - Kondagaon						
Total Route Length (in km.)	Length of Non Forest Land (in km.)	Width of Non Forest Land (in km.)	Area of Non-Forest Land (in Ha.)	Length of Forest Land (in km.)	Width of Forest Land (in km.)	Area of Proposed Forest Land (in Ha.)
304.222	144.002	0.0005	7.200	160.220	0.0005	8.011

South Kondagaon 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	S. kondagaon	Amrawati	62	48888.460	0.5	2.444
2	S. kondagaon	Makdi	103	75620.518	0.5	3.781
3	S. kondagaon	Mulmula	11	14150.675	0.5	0.708
4	S. kondagaon	Naranggi	1	505.077	0.5	0.025
Total of Table A			177	139164.730	0.5	6.958
Sl. No.	District	Block	No of Khasra	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
1	Kondagaon	Makdi	43	21055.075	0.5	1.053
Total of Table B			43	21055.075	0.5	1.053
Total Diversion Area (Table A+TableB)				160219.805	0.5	8.011



Range Officer
Makdi

Range Officer
Amrawati

भारी वन परिक्षेत्र अधिकारी
मुलमुला परिक्षेत्र

Range Officer
Naranggi Range

उप व. म. अ.
पश्चिम कोण्डगांव
उप व. म. अ.
पूर्व कोण्डगांव डिवीजनमण्डल
कोण्डगांव

Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area

Sl. No.	Patch No.	Block	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
1	1	Makdi	South kondagaon	Bedegodsoda To Binjoli	Amrawati	RF	476	1917.030	0.5	0.096
2	2	Makdi	South kondagaon	Bedegodsoda To Binjoli	Amrawati	PF	647	903.991	0.5	0.045
3	3	Makdi	South kondagaon	Badesohanga To Chhinari	Amrawati	PF	636	1292.317	0.5	0.065
4	3	Makdi	South kondagaon	Badesohanga To Chhinari	Amrawati	PF	637	546.314	0.5	0.027
5	3	Makdi	South kondagaon	Badesohanga To Chhinari	Amrawati	PF	637	594.154	0.5	0.030
6	4	Makdi	South kondagaon	Badesohanga To Bedegodsoda	Amrawati	PF	645	452.038	0.5	0.023
7	4	Makdi	South kondagaon	Badesohanga To Bedegodsoda	Amrawati	PF	645	2633.563	0.5	0.131
8	6	Makdi	South kondagaon	Badesohanga To Bedegodsoda	Amrawati	PF	650	326.328	0.5	0.016
9	6	Makdi	South kondagaon	Badesohanga To Bedegodsoda	Amrawati	PF	650	644.592	0.5	0.032
10	7	Makdi	South kondagaon	Bedegodsoda To Bijapur	Amrawati	PF	650	365.452	0.5	0.018
11	7	Makdi	South kondagaon	Bedegodsoda To Bijapur	Amrawati	PF	650	456.726	0.5	0.023
12	7	Makdi	South kondagaon	Bedegodsoda To Bijapur	Amrawati	PF	650	1613.652	0.5	0.081
13	9	Makdi	South kondagaon	Anatpur To Badesohanga	Amrawati	PF	630	946.234	0.5	0.047
14	10	Makdi	South kondagaon	Anatpur To Karandi	Amrawati	PF	628	962.353	0.5	0.048
15	13	Makdi	South kondagaon	Belondi To Elera	Amrawati	PF	449	52.584	0.5	0.003
16	13	Makdi	South kondagaon	Belondi To Elera	Amrawati	PF	449	1332.443	0.5	0.067
17	14	Makdi	South kondagaon	Belondi To Elera	Amrawati	PF	621	178.639	0.5	0.009
18	14	Makdi	South kondagaon	Belondi To Elera	Amrawati	PF	621	460.305	0.5	0.023
19	14	Makdi	South kondagaon	Belondi To Elera	Amrawati	PF	621	1347.027	0.5	0.067
20	15	Makdi	South kondagaon	Torandi To Belondi	Amrawati	PF	618	1346.235	0.5	0.067
21	16	Makdi	South kondagaon	Torandi To Belondi	Amrawati	PF	620	911.990	0.5	0.046
22	16	Makdi	South kondagaon	Torandi To Belondi	Amrawati	PF	620	1611.832	0.5	0.081
23	17	Makdi	South kondagaon	Hirapur To Torandi	Amrawati	PF	615	139.672	0.5	0.007
24	17	Makdi	South kondagaon	Hirapur To Torandi	Amrawati	PF	615	730.000	0.5	0.037
25	18	Makdi	South kondagaon	Sodma To Hirapur	Amrawati	PF	383	451.162	0.5	0.023
26	18	Makdi	South kondagaon	Hirapur To Kurlubahar	Amrawati	PF	612	1302.332	0.5	0.065



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.)
27	18	Makdi	South kondagaon	Kurlubahar To Tapping	Amrawati	PF	612	207.744	0.5	0.010
28	18	Makdi	South kondagaon	Kurlubahar To Tapping	Amrawati	PF	612	300.612	0.5	0.015
29	18	Makdi	South kondagaon	Sodma To Hirapur	Amrawati	PF	612	327.896	0.5	0.016
30	18	Makdi	South kondagaon	Sodma To Hirapur	Amrawati	PF	612	370.202	0.5	0.019
31	18	Makdi	South kondagaon	Sodma To Hirapur	Amrawati	PF	612	492.965	0.5	0.025
32	18	Makdi	South kondagaon	Sodma To Hirapur	Amrawati	PF	612	1622.105	0.5	0.081
33	19	Makdi	South kondagaon	Dharli To Sodma	Amrawati	PF	610(A)	751.363	0.5	0.038
34	20	Makdi	South kondagaon	Pidapal To Dharli	Amrawati	PF	602	420.867	0.5	0.021
35	20	Makdi	South kondagaon	Pidapal To Dharli	Amrawati	PF	602	420.867	0.5	0.021
36	23	Makdi	South kondagaon	Makdi To Pidapal	Amrawati	PF	589	307.923	0.5	0.015
37	23	Makdi	South kondagaon	Makdi To Pidapal	Amrawati	PF	589	307.923	0.5	0.015
38	23	Makdi	South kondagaon	Pidapal To Jarandi	Amrawati	PF	589	305.615	0.5	0.015
39	23	Makdi	South kondagaon	Pidapal To Jarandi	Amrawati	PF	589	305.615	0.5	0.015
40	23	Makdi	South kondagaon	Pidapal To Jarandi	Amrawati	PF	589	576.469	0.5	0.029
41	23	Makdi	South kondagaon	Pidapal To Jarandi	Amrawati	PF	589	576.469	0.5	0.029
42	23	Makdi	South kondagaon	Pidapal To Jarandi	Amrawati	PF	590	295.747	0.5	0.015
43	23	Makdi	South kondagaon	Pidapal To Jarandi	Amrawati	PF	590	295.747	0.5	0.015
44	24	Makdi	South kondagaon	Pidapal To Jarandi	Amrawati	PF	591	254.356	0.5	0.013
45	24	Makdi	South kondagaon	Pidapal To Jarandi	Amrawati	PF	591	254.356	0.5	0.013
46	24	Makdi	South kondagaon	Pidapal To Jarandi	Amrawati	PF	591	524.320	0.5	0.026
47	24	Makdi	South kondagaon	Pidapal To Jarandi	Amrawati	PF	591	524.320	0.5	0.026
48	70	Makdi	South kondagaon	Bijapur To Sampur	Amrawati	RF	502	1665.807	0.5	0.083
49	70	Makdi	South kondagaon	Bijapur To Sampur	Amrawati	RF	503	1067.871	0.5	0.053
50	70	Makdi	South kondagaon	Bijapur To Sampur	Amrawati	RF	504	860.370	0.5	0.043
51	70	Makdi	South kondagaon	Bijapur To Sampur	Amrawati	PF	505/A	2103.362	0.5	0.105
52	71	Makdi	South kondagaon	Bijapurto Umargaon	Amrawati	RF	506	397.679	0.5	0.020
53	72	Makdi	South kondagaon	Bijapurto Umargaon	Amrawati	RF	507	559.039	0.5	0.028



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.)
54	72	Makdi	South kondagaon	Bijapurto Umargaon	Amrawati	RF	508	470.984	0.5	0.024
55	72	Makdi	South kondagaon	Bijapurto Umargaon	Amrawati	RF	512	825.230	0.5	0.041
56	72	Makdi	South kondagaon	Bijapurto Umargaon	Amrawati	RF	513	737.068	0.5	0.037
57	72	Makdi	South kondagaon	Bijapurto Umargaon	Amrawati	RF	515	1388.602	0.5	0.069
58	73	Makdi	South kondagaon	Bijapurto Umargaon	Amrawati	PF	439	1415.118	0.5	0.070
59	73	Makdi	South kondagaon	Bijapurto Umargaon	Amrawati	RF	517	1447.043	0.5	0.072
60	73	Makdi	South kondagaon	Bijapurto Umargaon	Amrawati	RF	522	1950.000	0.5	0.098
61	73	Makdi	South kondagaon	Bijapurto Umargaon	Amrawati	RF	523	502.958	0.5	0.025
62	73	Makdi	South kondagaon	Bijapurto Umargaon	Amrawati	RF	523	534.883	0.5	0.027
Total-							62	48888.460	0.5	2.444
63	26	Makdi	South kondagaon	Makdi Block To Lubha	Makdi	PF	397	3020.997	0.5	0.151
64	26	Makdi	South kondagaon	Makdi Block To Lubha	Makdi	PF	407	6.870	0.5	0.001
65	26	Makdi	South kondagaon	Makdi Block To Lubha	Makdi	PF	407	2249.140	0.5	0.112
66	26	Makdi	South kondagaon	Makdi Block To Lubha	Makdi	PF	587	6.870	0.5	0.001
67	26	Makdi	South kondagaon	Makdi Block To Lubha	Makdi	PF	587	262.677	0.5	0.013
68	26	Makdi	South kondagaon	Makdi Block To Lubha	Makdi	PF	588	2089.603	0.5	0.104
69	26	Makdi	South kondagaon	Ondri To Makdi Block	Makdi	PF	588	1225.571	0.5	0.061
70	26	Makdi	South kondagaon	Umargaon To Makdi Block	Makdi	PF	588	141.902	0.5	0.007
71	27	Makdi	South kondagaon	Mageda To Otenda	Makdi	PF	599	368.297	0.5	0.018
72	27	Makdi	South kondagaon	Mageda To Otenda	Makdi	PF	599	1432.764	0.5	0.072
73	28	Makdi	South kondagaon	Mageda To Otenda	Makdi	PF	600	160.579	0.5	0.008
74	28	Makdi	South kondagaon	Mageda To Otenda	Makdi	PF	600	1277.042	0.5	0.064
75	29	Makdi	South kondagaon	Mageda To Bagbeda	Makdi	PF	362	614.278	0.5	0.031
76	29	Makdi	South kondagaon	Mageda To Bagbeda	Makdi	PF	363	242.138	0.5	0.012
77	29	Makdi	South kondagaon	Mageda To Bagbeda	Makdi	PF	363	1577.676	0.5	0.079
78	29	Makdi	South kondagaon	Mageda To Bagbeda	Makdi	PF	400	344.560	0.5	0.017
79	29	Makdi	South kondagaon	Mageda To Bagbeda	Makdi	PF	400	1667.301	0.5	0.083



Range Officer
Makdi

Range Officer
Amrawad

उप वनप्रबंधन अधिकारी
पूर्व कोयला उपखण्ड
कोयला

Divisional Forest Officer
South Kondagaon Division
Kondagaon

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.)
80	30	Makdi	South kondagaon	Mageda To Bagbeda	Makdi	PF	360	24.253	0.5	0.001
81	30	Makdi	South kondagaon	Mageda To Bagbeda	Makdi	PF	360	1146.164	0.5	0.057
82	31	Makdi	South kondagaon	Bagbeda To Ulera	Makdi	PF	329	591.392	0.5	0.030
83	32	Makdi	South kondagaon	Bagbeda To Ulera	Makdi	PF	330	785.210	0.5	0.039
84	33	Makdi	South kondagaon	Bagbeda To Ulera	Makdi	PF	330	222.397	0.5	0.011
85	33	Makdi	South kondagaon	Bagbeda To Ulera	Makdi	PF	330	255.139	0.5	0.013
86	35	Makdi	South kondagaon	Guhaborand To Gare	Makdi	PF	289	587.447	0.5	0.029
87	35	Makdi	South kondagaon	Guhaborand To Gare	Makdi	PF	291	476.298	0.5	0.024
88	35	Makdi	South kondagaon	Guhaborand To Gare	Makdi	PF	291	514.915	0.5	0.026
89	36	Makdi	South kondagaon	Randna To Pusapal	Makdi	PF	289	378.361	0.5	0.019
90	36	Makdi	South kondagaon	Randna To Pusapal	Makdi	PF	289	1620.218	0.5	0.081
91	37	Makdi	South kondagaon	Randna To Bhirgaon	Makdi	PF	278	257.309	0.5	0.013
92	37	Makdi	South kondagaon	Randna To Bhirgaon	Makdi	PF	278	1086.111	0.5	0.054
93	37	Makdi	South kondagaon	Randna To Bhirgaon	Makdi	PF	285	590.980	0.5	0.030
94	38	Makdi	South kondagaon	Pusapal To Barkai	Makdi	PF	288	958.191	0.5	0.048
95	39	Makdi	South kondagaon	Barkai To Balond	Makdi	PF	287	947.225	0.5	0.047
96	40	Makdi	South kondagaon	Barkai To Balond	Makdi	PF	282	449.990	0.5	0.022
97	40	Makdi	South kondagaon	Charkai To Pandyatgaon	Makdi	PF	282	452.150	0.5	0.023
98	41	Makdi	South kondagaon	Barkai To Balond	Makdi	PF	281	865.541	0.5	0.043
99	41	Makdi	South kondagaon	Charkai To Pandyatgaon	Makdi	PF	281	852.465	0.5	0.043
100	42	Makdi	South kondagaon	Barkai To Balond	Makdi	PF	274	588.388	0.5	0.029
101	42	Makdi	South kondagaon	Barkai To Balond	Makdi	PF	275	330.074	0.5	0.017
102	43	Makdi	South kondagaon	Barkai To Balond	Makdi	PF	268	1166.317	0.5	0.058
103	43	Makdi	South kondagaon	Barkai To Balond	Makdi	PF	269	1332.644	0.5	0.067
104	43	Makdi	South kondagaon	Barkai To Balond	Makdi	PF	271	619.635	0.5	0.031
105	45	Makdi	South kondagaon	Balond To Katagaon	Makdi	PF	349	334.537	0.5	0.017
106	45	Makdi	South kondagaon	Balond To Katagaon	Makdi	PF	349	631.737	0.5	0.032



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.)
107	45	Makdi	South kondagaon	Balond To Katagaon	Makdi	PF	350	368.987	0.5	0.018
108	46	Makdi	South kondagaon	Katagaon To Budra	Makdi	PF	353	435.899	0.5	0.022
109	48	Makdi	South kondagaon	Budra To Labha	Makdi	PF	353	601.815	0.5	0.030
110	49	Makdi	South kondagaon	Budra To Hadigoan	Makdi	PF	355	14.029	0.5	0.001
111	49	Makdi	South kondagaon	Budra To Hadigoan	Makdi	PF	355	843.283	0.5	0.042
112	50	Makdi	South kondagaon	Ondri To Makdi Block	Makdi	PF	356	320.768	0.5	0.016
113	51	Makdi	South kondagaon	Gare To Ondri	Makdi	PF	358	44.402	0.5	0.002
114	51	Makdi	South kondagaon	Gare To Ondri	Makdi	PF	358	1744.764	0.5	0.087
115	52	Makdi	South kondagaon	Gare To Ondri	Makdi	PF	344	665.209	0.5	0.033
116	53	Makdi	South kondagaon	Guhaborand To Gare	Makdi	PF	339	976.242	0.5	0.049
117	53	Makdi	South kondagaon	Guhaborand To Gare	Makdi	PF	340	1257.270	0.5	0.063
118	53	Makdi	South kondagaon	Guhaborand To Gare	Makdi	PF	345	815.149	0.5	0.042
119	54	Makdi	South kondagaon	Themgaon To Randna	Makdi	PF	292	859.148	0.5	0.043
120	55	Makdi	South kondagaon	Themgaon To Randna	Makdi	PF	337	1130.080	0.5	0.057
121	56	Makdi	South kondagaon	Themgaon To Randna	Makdi	PF	338	92.165	0.5	0.005
122	56	Makdi	South kondagaon	Themgaon To Randna	Makdi	PF	338	165.237	0.5	0.008
123	56	Makdi	South kondagaon	Themgaon To Randna	Makdi	PF	339	1242.568	0.5	0.062
124	57	Makdi	South kondagaon	Lubha To Themgaon	Makdi	PF	359	885.794	0.5	0.044
125	58	Makdi	South kondagaon	Makdi Block To Lubha	Makdi	PF	332	545.283	0.5	0.027
126	58	Makdi	South kondagaon	Makdi Block To Lubha	Makdi	PF	404	1146.765	0.5	0.057
127	58	Makdi	South kondagaon	Ondri To Makdi Block	Makdi	PF	404	1862.184	0.5	0.093
128	58	Makdi	South kondagaon	Makdi Block To Lubha	Makdi	PF	405	1570.898	0.5	0.079
129	58	Makdi	South kondagaon	Ondri To Makdi Block	Makdi	PF	405	1570.496	0.5	0.079
130	58	Makdi	South kondagaon	Makdi Block To Lubha	Makdi	PF	406	185.070	0.5	0.009
131	58	Makdi	South kondagaon	Ondri To Makdi Block	Makdi	PF	406	186.171	0.5	0.009
132	58	Makdi	South kondagaon	Makdi Block To Lubha	Makdi	PF	408	322.164	0.5	0.016
133	58	Makdi	South kondagaon	Ondri To Makdi Block	Makdi	PF	408	325.268	0.5	0.016



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.)
134	58	Makdi	South kondagaon	Makdi Block To Lubha	Makdi	PF	409	1564.006	0.5	0.078
135	58	Makdi	South kondagaon	Ondri To Makdi Block	Makdi	PF	409	1560.891	0.5	0.078
136	58	Makdi	South kondagaon	Makdi Block To Lubha	Makdi	PF	410	843.737	0.5	0.042
137	58	Makdi	South kondagaon	Ondri To Makdi Block	Makdi	PF	410	841.942	0.5	0.042
138	59	Makdi	South kondagaon	Hadigoan To Makdi Block	Makdi	PF	413	2094.832	0.5	0.105
139	60	Makdi	South kondagaon	Umargaon To Makdi Block	Makdi	PF	415	406.903	0.5	0.020
140	60	Makdi	South kondagaon	Umargaon To Makdi Block	Makdi	PF	416	7.128	0.5	0.001
141	60	Makdi	South kondagaon	Umargaon To Makdi Block	Makdi	PF	416	160.932	0.5	0.008
142	60	Makdi	South kondagaon	Umargaon To Makdi Block	Makdi	PF	416	1950.000	0.5	0.098
143	60	Makdi	South kondagaon	Umargaon To Makdi Block	Makdi	PF	430	472.677	0.5	0.024
144	61	Makdi	South kondagaon	Umargaon To Makdi Block	Makdi	PF	652	207.740	0.5	0.010
145	62	Makdi	South kondagaon	Kawra To Umargaon	Makdi	PF	435	332.371	0.5	0.017
146	62	Makdi	South kondagaon	Kawra To Umargaon	Makdi	PF	528	778.087	0.5	0.039
147	62	Makdi	South kondagaon	Kawra To Umargaon	Makdi	PF	654	695.004	0.5	0.035
148	62	Makdi	South kondagaon	Kawra To Umargaon	Makdi	PF	654	771.582	0.5	0.039
149	62	Makdi	South kondagaon	Babai To Kawra	Makdi	PF	655	126.236	0.5	0.006
150	62	Makdi	South kondagaon	Babai To Kawra	Makdi	PF	655	905.179	0.5	0.045
151	63	Makdi	South kondagaon	Babai To Kawra	Makdi	PF	656	741.807	0.5	0.037
152	64	Makdi	South kondagaon	Maragaon To Babai	Makdi	PF	533	220.367	0.5	0.011
153	64	Makdi	South kondagaon	Maragaon To Babai	Makdi	PF	533	1157.874	0.5	0.058
154	64	Makdi	South kondagaon	Maragaon To Babai	Makdi	PF	659	529.587	0.5	0.026
155	64	Makdi	South kondagaon	Maragaon To Babai	Makdi	PF	660	436.987	0.5	0.022
156	65	Makdi	South kondagaon	Sampur To Hukkabeda Pathri	Makdi	PF	263	831.126	0.5	0.042
157	65	Makdi	South kondagaon	Sampur To Hukkabeda Pathri	Makdi	PF	660	147.152	0.5	0.007
158	65	Makdi	South kondagaon	Sampur To Maragaon	Makdi	PF	660	387.921	0.5	0.019
159	73	Makdi	South kondagaon	Umargaon To Makdi Block	Makdi	PF	429	21.345	0.5	0.001
160	73	Makdi	South kondagaon	Umargaon To Makdi Block	Makdi	PF	429	23.073	0.5	0.001



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.)
161	73	Makdi	South kondagaon	Umargaon To Bijapur	Makdi	PF	429	202.473	0.5	0.010
162	73	Makdi	South kondagaon	Umargaon To Bijapur	Makdi	PF	429	1781.255	0.5	0.089
163	73	Makdi	South kondagaon	Umargaon To Bijapur	Makdi	PF	439	168.747	0.5	0.008
164	74	Makdi	South kondagaon	Kerawahi To Manjhiborand	Makdi	PF	265	45.735	0.5	0.002
165	74	Makdi	South kondagaon	Kerawahi To Manjhiborand	Makdi	PF	265	275.361	0.5	0.014
Total-										3.781
166	66	Makdi	South kondagaon	Bijapur To Sampur	Mulmula	PF	662	1109.479	0.5	0.055
167	67	Makdi	South kondagaon	Bijapur To Sampur	Mulmula	PF	666	2254.791	0.5	0.113
168	68	Makdi	South kondagaon	Bijapur To Sampur	Mulmula	PF	539	1845.269	0.5	0.092
169	68	Makdi	South kondagaon	Bijapur To Sampur	Mulmula	PF	679*	722.718	0.5	0.037
170	69	Makdi	South kondagaon	Bijapur To Sampur	Mulmula	PF	562	286.187	0.5	0.014
171	69	Makdi	South kondagaon	Bijapur To Sampur	Mulmula	PF	563	1358.920	0.5	0.068
172	69	Makdi	South kondagaon	Bijapur To Sampur	Mulmula	PF	564	1465.802	0.5	0.073
173	69	Makdi	South kondagaon	Bijapur To Sampur	Mulmula	PF	565	1448.855	0.5	0.072
174	69	Makdi	South kondagaon	Bijapur To Sampur	Mulmula	PF	680	764.383	0.5	0.038
175	69	Makdi	South kondagaon	Bijapur To Sampur	Mulmula	PF	682	2080.308	0.5	0.104
176	69	Makdi	South kondagaon	Bijapur To Sampur	Mulmula	PF	688	813.963	0.5	0.042
Total-										0.708
177	75	Makdi	South kondagaon	Banchapai To Chingnar	Narangi	PF	826	505.077	0.5	0.025
Total-										0.025
Grand Total-										6.958



Range Officer
Makdi

Range Officer प्रभारी वन परिक्षेत्र अधिकारी
मुलमुला परिक्षेत्र

Range Officer
Narangi Range

उप व. म. अ.
पश्चिम कोण्डागांव

उप व. म. अ. अधिकारी
उप व. म. अ. अधिकारी

Divisional Forest Officer
South Kondagaon Division
Kondagaon

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	kondagaon	Makdi	Bedegodsoda To Binjoli	Binjoli	BJJ	12/5	113.269	0.5	0.006
2	3	kondagaon	Makdi	Badesohanga To Chhinari	Bedesohanga	BJJ	88/1	18.145	0.5	0.001
3	3	kondagaon	Makdi	Badesohanga To Chhinari	Chhinari	BJJ	1/1	132.293	0.5	0.007
4	3	kondagaon	Makdi	Badesohanga To Chhinari	Chhinari	BJJ	52/10	115.378	0.5	0.006
5	3	kondagaon	Makdi	Badesohanga To Chhinari	Chhinari	CJJ	49	59.828	0.5	0.003
6	5	kondagaon	Makdi	Badesohanga To Bedegodsoda	Bedagaon	BJJ	72/1	895.345	0.5	0.044
7	8	kondagaon	Makdi	Anatpur To Badesohanga	Anantpur	BJJ	1/1	953.216	0.5	0.047
8	10	kondagaon	Makdi	Anatpur To Karandi	Anantpur	BJJ	1/1	1194.598	0.5	0.060
9	11	kondagaon	Makdi	Elera To Anatpur	Anantpur	CJJ	32/1	175.062	0.5	0.009
10	11	kondagaon	Makdi	Elera To Anatpur	Anantpur	BJJ	43/1	1094.870	0.5	0.055
11	12	kondagaon	Makdi	Belondi To Elera	Arla	CJJ	10/1	1012.575	0.5	0.051
12	14	kondagaon	Makdi	Belondi To Elera	Belondi	BJJ	44/1	335.559	0.5	0.017
13	17	kondagaon	Makdi	Sodma To Hirapur	Hirapur	CJJ	54	763.446	0.5	0.038
14	18	kondagaon	Makdi	Sodma To Hirapur	Sodma	CJJ	59/1,59/4	222.446	0.5	0.011
15	18	kondagaon	Makdi	Sodma To Hirapur	Sodma	CJJ	66/1	172.614	0.5	0.009
16	21	kondagaon	Makdi	Pidapal To Dharli	Pidhapal	BJJ	58/1	24.181	0.5	0.001
17	21	kondagaon	Makdi	Pidapal To Dharli	Pidhapal	BJJ	58/1	147.903	0.5	0.007
18	22	kondagaon	Makdi	Makdi To Pidapal	Jarandi	BJJ	156/1	643.754	0.5	0.032
19	25	kondagaon	Makdi	Hadigoan To Makdi Block	Makadi	CJJ	120	43.161	0.5	0.002
20	25	kondagaon	Makdi	Makdi To Pidapal	Makadi	BJJ	145/14	48.760	0.5	0.002
21	25	kondagaon	Makdi	Makdi To Pidapal	Makadi	BJJ	35/25	629.272	0.5	0.031
22	26	kondagaon	Makdi	Makdi Block To Lubha	Makadi	BJJ	35/25	830.852	0.5	0.042
23	27	kondagaon	Makdi	Mageda To Otenda	Otenda	CJJ	160/1	235.329	0.5	0.012
24	31	kondagaon	Makdi	Bagbeda To Ulera	Bagbeda	BJJ	18/1	872.672	0.5	0.044
25	32	kondagaon	Makdi	Bagbeda To Ulera	Bagbeda	BJJ	1/1	364.527	0.5	0.017
26	34	kondagaon	Makdi	Koshaharduli To Guhaborand	Kosarduli	BJJ	1/1,1/3,1/18,1/9	515.656	0.5	0.026
27	34	kondagaon	Makdi	Koshaharduli To Guhaborand	Kosarduli	BJJ	1/1,1/3,1/18,1/9	1587.927	0.5	0.079



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.)
28	36	kondagaon	Makdi	Pusapal To Barkai	Kotebel	BJJ	35/10	435.968	0.5	0.022
29	36	kondagaon	Makdi	Randna To Pusapal	Pusapal	BJJ	12/5	159.488	0.5	0.008
30	36	kondagaon	Makdi	Randna To Bhirgaon	Radhana	CJJ	32/1	96.312	0.5	0.005
31	44	kondagaon	Makdi	Barkai To Balond	Balond	BJJ	1/1	2056.241	0.5	0.103
32	47	kondagaon	Makdi	Budra To Labha	Labha	CJJ	1/30	514.726	0.5	0.026
33	49	kondagaon	Makdi	Budra To Hadigoan	Hadigoan	CJJ	67	72.376	0.5	0.004
34	53	kondagaon	Makdi	Guhaborand To Gare	Gare	BJJ	1/49	1297.461	0.5	0.065
35	59	kondagaon	Makdi	Hadigoan To Makdi Block	Makadi	BJJ	35/3	229.801	0.5	0.011
36	60	kondagaon	Makdi	Umargaon To Makdi Block	Belgaon	BJJ	1/8/KA	350.076	0.5	0.018
37	60	kondagaon	Makdi	Umargaon To Makdi Block	Belgaon	CJJ	28/1	178.636	0.5	0.009
38	60	kondagaon	Makdi	Umargaon To Makdi Block	Belgaon	CJJ	43/1	314.384	0.5	0.016
39	61	kondagaon	Makdi	Umargaon To Makdi Block	Umargaon	BJJ	96/1	476.911	0.5	0.024
40	62	kondagaon	Makdi	Babai To Kawra	Karmari	BJJ	102/1/KA	417.616	0.5	0.021
41	62	kondagaon	Makdi	Babai To Kawra	Kawra	BJJ	86/1KA	812.390	0.5	0.041
42	64	kondagaon	Makdi	Maragaon To Babai	chote Salan	BJJ	50/1/KA	266.350	0.5	0.013
43	64	kondagaon	Makdi	Maragaon To Babai	chote Salan	BJJ	50/1/KA	173.701	0.5	0.008
Total-							43	21055.075	0.5	1.053

Range Officer
Makdi

Range Officer
Amrawati

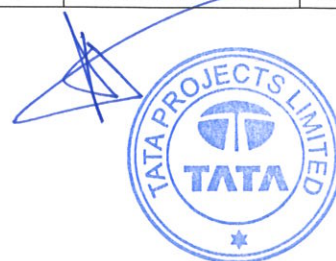
उप वन्यजल विभागी
उप वन्यजल विभाग
मंडला

Divisional Forest Officer
South Kondagaon Division
Kondagaon



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

Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-1	1	81°59'13.32955"	19°33'35.34705"	P-51	4	82°00'33.38345"	19°35'38.16590"
P-2	1	81°59'12.17100"	19°33'41.67605"	P-52	4	82°00'28.22344"	19°35'42.44889"
P-3	1	81°59'10.50456"	19°33'47.93312"	P-53	4	82°00'23.89200"	19°35'47.45342"
P-4	1	81°59'08.76986"	19°33'54.18651"	P-54	4	82°00'10.29044"	19°35'52.96298"
P-5	1	81°59'05.49247"	19°33'59.89315"	P-55	4	82°00'16.81269"	19°35'50.93955"
P-6	1	81°59'02.03600"	19°34'05.49214"	P-56	4	82°00'23.13324"	19°35'48.57894"
P-7	1	81°58'59.61795"	19°34'11.57264"	P-57	4	82°00'27.44437"	19°35'43.55079"
P-8	1	81°58'57.56286"	19°34'17.77787"	P-58	4	82°00'32.67070"	19°35'39.33786"
P-9	1	81°58'56.16355"	19°34'24.08337"	P-59	4	82°00'38.05437"	19°35'35.38698"
P-10	1	81°58'55.07261"	19°34'30.46071"	P-60	4	82°00'44.52768"	19°35'33.32090"
P-11	1	81°58'53.47888"	19°34'33.94016"	P-61	4	82°00'51.07893"	19°35'31.54291"
P-12	1	81°59'13.32955"	19°33'35.34705"	P-62	4	82°00'52.22833"	19°35'31.47019"
P-13	1	81°59'14.98845"	19°33'32.04230"	P-63	5	81°59'46.55448"	19°36'02.39546"
P-14	2	81°58'46.16049"	19°35'09.45987"	P-64	5	81°59'42.65535"	19°36'07.67099"
P-15	2	81°58'47.31899"	19°35'03.11727"	P-65	5	81°59'17.90692"	19°36'15.49047"
P-16	2	81°58'48.32919"	19°34'56.68858"	P-66	5	81°59'35.33280"	19°36'17.75842"
P-17	2	81°58'50.01403"	19°34'50.40601"	P-67	5	81°59'28.98660"	19°36'19.40701"
P-18	2	81°58'51.45913"	19°34'44.04643"	P-68	5	81°59'25.76959"	19°36'19.96012"
P-19	2	81°58'52.24405"	19°34'40.74711"	P-69	6	81°59'03.64839"	19°35'58.75896"
P-20	3	82°01'53.73204"	19°34'39.55711"	P-70	6	81°58'57.24910"	19°35'56.57675"
P-21	3	82°02'00.21892"	19°34'37.44018"	P-71	6	81°58'53.82069"	19°35'51.02286"
P-22	3	82°02'06.61079"	19°34'35.09425"	P-72	6	81°58'49.57264"	19°35'46.01229"
P-23	3	82°02'10.28931"	19°34'31.95168"	P-73	6	81°58'48.32971"	19°35'45.17067"
P-24	3	82°01'36.46885"	19°34'49.11068"	P-74	6	81°58'48.32971"	19°35'45.17067"
P-25	3	82°01'41.80511"	19°34'45.13155"	P-75	6	81°58'44.84347"	19°35'39.67122"
P-26	3	82°01'47.42334"	19°34'41.58657"	P-76	6	81°58'43.04889"	19°35'35.95227"
P-27	3	82°01'53.73204"	19°34'39.55711"	P-77	7	81°58'06.76704"	19°35'55.19333"
P-28	3	82°01'07.53446"	19°35'17.87993"	P-78	7	81°58'05.31611"	19°36'01.47407"
P-29	3	82°01'13.49061"	19°35'14.69109"	P-79	7	81°58'07.15960"	19°36'07.71835"
P-30	3	82°01'19.36770"	19°35'11.39532"	P-80	7	81°58'06.10078"	19°36'14.11108"
P-31	3	82°01'25.21324"	19°35'08.05088"	P-81	7	81°58'06.05303"	19°36'20.61159"
P-32	3	82°01'29.36707"	19°35'02.89631"	P-82	7	81°58'04.81122"	19°36'26.94242"
P-33	3	82°01'31.67467"	19°34'57.28514"	P-83	7	81°58'27.64177"	19°35'42.56368"
P-34	3	82°01'35.05425"	19°34'51.75888"	P-84	7	81°58'21.89346"	19°35'46.11277"
P-35	3	82°01'36.46885"	19°34'49.11068"	P-85	7	81°58'17.82644"	19°35'51.08188"
P-36	3	82°02'19.18247"	19°34'23.33130"	P-86	7	81°58'17.46016"	19°35'51.35866"



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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-37	3	82°02'23.40034"	19°34'14.99950"	P-87	7	81°58'03.79848"	19°36'29.91936"
P-38	3	82°02'16.35618"	19°34'25.93702"	P-88	7	81°58'02.29342"	19°36'36.24443"
P-39	3	82°02'19.18247"	19°34'23.33130"	P-89	7	81°58'02.62488"	19°36'42.72359"
P-40	3	82°02'25.86190"	19°34'12.76044"	P-90	7	81°58'02.80438"	19°36'44.56096"
P-41	3	82°02'27.06978"	19°34'13.02841"	P-91	7	81°58'38.46260"	19°35'31.67988"
P-42	3	82°01'07.05711"	19°35'18.25894"	P-92	7	81°58'33.43018"	19°35'35.81967"
P-43	3	82°01'07.53446"	19°35'17.87993"	P-93	7	81°58'30.21604"	19°35'40.25247"
P-44	4	82°00'21.36257"	19°35'49.24443"	P-94	8	81°59'30.66188"	19°36'35.96355"
P-45	4	82°00'14.81355"	19°35'51.18631"	P-95	8	81°59'15.03940"	19°36'47.35389"
P-46	4	82°00'08.30899"	19°35'53.25824"	P-96	8	81°59'14.01007"	19°36'41.74099"
P-47	4	82°00'06.71098"	19°35'54.01237"	P-97	8	81°59'20.67637"	19°36'40.51156"
P-48	4	82°00'52.18378"	19°35'31.17559"	P-98	8	81°59'27.10257"	19°36'38.57008"
P-49	4	82°00'45.53957"	19°35'32.59548"	P-99	8	81°59'25.08366"	19°37'01.24818"
P-50	4	82°00'39.01371"	19°35'34.54353"	P-100	9	81°59'20.47309"	19°37'43.49886"
P-101	9	81°59'20.17304"	19°37'37.00967"	P-151	14	82°01'46.62243"	19°40'29.08107"
P-102	9	81°59'22.46489"	19°37'30.98009"	P-152	14	82°01'41.60331"	19°40'29.53097"
P-103	9	81°59'25.36835"	19°37'25.10665"	P-153	14	82°01'20.41209"	19°40'37.76857"
P-104	9	81°59'28.46028"	19°37'19.40783"	P-154	14	82°01'14.01783"	19°40'40.10133"
P-105	9	81°59'28.75428"	19°37'14.67837"	P-155	14	82°01'07.19868"	19°40'40.78479"
P-106	10	81°58'43.59186"	19°38'30.45942"	P-156	14	82°01'05.17151"	19°40'41.18524"
P-107	10	81°58'37.42913"	19°38'27.75591"	P-157	14	82°02'12.66864"	19°40'51.55852"
P-108	10	81°58'30.88274"	19°38'29.42821"	P-158	14	82°02'12.96503"	19°40'45.75980"
P-109	10	81°58'24.11972"	19°38'30.28346"	P-159	14	82°02'16.46011"	19°41'04.24956"
P-110	10	81°58'18.27919"	19°38'33.55533"	P-160	14	82°02'14.33568"	19°40'58.06955"
P-111	10	81°58'13.62260"	19°38'36.41793"	P-161	14	82°02'12.57296"	19°40'53.99968"
P-112	10	81°59'19.02434"	19°38'41.53081"	P-162	15	82°01'29.08676"	19°41'58.93491"
P-113	10	81°59'12.33008"	19°38'42.77838"	P-163	15	82°01'35.11955"	19°41'55.92517"
P-114	10	81°59'05.56835"	19°38'43.24690"	P-164	15	82°01'41.35426"	19°41'53.22812"
P-115	10	81°58'59.62956"	19°38'40.69640"	P-165	15	82°01'47.58344"	19°41'50.48930"
P-116	10	81°58'55.85255"	19°38'35.27019"	P-166	15	82°01'53.34432"	19°41'46.96534"
P-117	10	81°58'49.97833"	19°38'32.29670"	P-167	15	82°01'57.93755"	19°41'42.20933"
P-118	10	81°58'43.59186"	19°38'30.45942"	P-168	15	82°02'01.39486"	19°41'36.60046"
P-119	11	81°59'50.92543"	19°38'38.31058"	P-169	15	82°02'04.80441"	19°41'33.21725"
P-120	11	81°59'44.75414"	19°38'34.88795"	P-170	16	82°00'25.79032"	19°42'19.55488"
P-121	11	82°00'26.39851"	19°38'54.48040"	P-171	16	82°00'32.55795"	19°42'20.65760"
P-122	11	82°00'19.79808"	19°38'52.69207"	P-172	16	82°00'39.35200"	19°42'21.36641"
P-123	11	82°00'13.21527"	19°38'50.84817"	P-173	16	82°00'46.06585"	19°42'20.06996"
P-124	11	82°00'07.10984"	19°38'47.91553"	P-174	16	82°00'52.49163"	19°42'21.16315"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-125	11	82°00'01.46712"	19°38'44.21221"	P-175	16	82°00'58.40751"	19°42'24.43168"
P-126	11	81°59'55.83937"	19°38'40.48612"	P-176	16	82°01'03.73697"	19°42'25.71088"
P-127	11	81°59'53.11262"	19°38'38.80340"	P-177	16	82°01'05.97367"	19°42'21.08788"
P-128	12	82°01'01.59577"	19°39'49.00864"	P-178	16	82°01'05.64635"	19°42'14.66967"
P-129	12	82°01'00.49879"	19°39'44.37215"	P-179	16	82°01'05.65056"	19°42'14.28483"
P-130	12	82°00'55.64995"	19°39'44.74626"	P-180	16	81°59'54.95573"	19°42'17.23478"
P-131	12	82°00'50.96899"	19°39'40.19176"	P-181	16	82°00'01.78288"	19°42'17.50882"
P-132	12	82°00'48.54836"	19°39'34.10369"	P-182	16	82°00'08.43624"	19°42'19.11926"
P-133	12	82°00'46.22985"	19°39'27.98133"	P-183	16	82°00'15.22076"	19°42'18.45173"
P-134	12	82°00'46.07976"	19°39'27.59780"	P-184	16	82°00'22.02305"	19°42'18.82231"
P-135	13	82°01'03.11942"	19°40'39.13188"	P-185	16	82°00'25.79032"	19°42'19.55488"
P-136	13	82°01'03.64154"	19°40'32.65193"	P-186	17	82°00'55.43788"	19°43'50.17357"
P-137	13	82°01'03.39479"	19°40'26.17667"	P-187	17	82°00'49.48796"	19°43'46.94371"
P-138	13	82°01'02.59147"	19°40'19.71882"	P-188	17	82°00'43.60937"	19°43'43.60490"
P-139	13	82°01'02.46022"	19°40'13.23336"	P-189	17	82°00'37.53256"	19°43'40.61463"
P-140	13	82°01'02.80218"	19°40'06.73578"	P-190	17	82°00'33.19418"	19°43'39.63226"
P-141	13	82°01'03.16115"	19°40'00.23980"	P-191	17	82°01'00.03844"	19°43'51.43860"
P-142	13	82°01'02.78344"	19°39'55.94860"	P-192	17	82°00'55.43788"	19°43'50.17357"
P-143	13	82°01'02.78344"	19°39'55.94860"	P-193	17	82°01'01.61235"	19°43'51.55140"
P-144	13	82°01'02.58942"	19°39'54.24818"	P-194	17	82°01'27.27991"	19°43'53.57136"
P-145	14	82°02'12.96503"	19°40'45.75980"	P-195	17	82°01'20.73249"	19°43'54.16342"
P-146	14	82°02'13.25899"	19°40'39.75802"	P-196	17	82°01'14.98403"	19°43'52.34633"
P-147	14	82°01'26.39503"	19°40'36.22486"	P-197	17	82°01'54.19492"	19°44'18.71522"
P-148	14	82°02'06.02871"	19°40'33.32839"	P-198	18	82°00'30.62990"	19°44'20.54015"
P-149	14	82°02'00.20491"	19°40'30.07667"	P-199	18	82°00'37.18903"	19°44'18.86049"
P-150	14	82°01'53.38587"	19°40'29.78457"	P-200	18	82°00'43.93381"	19°44'20.07163"
P-201	18	82°00'50.08051"	19°44'22.96472"	P-251	20	81°57'11.54524"	19°46'21.58323"
P-202	18	82°00'56.20333"	19°44'25.91322"	P-252	20	81°57'49.25285"	19°46'11.81464"
P-203	18	82°01'02.40432"	19°44'28.69184"	P-253	20	81°57'49.96233"	19°46'11.91269"
P-204	18	82°01'09.10842"	19°44'30.06606"	P-254	21	81°56'54.65039"	19°46'30.27229"
P-205	18	82°01'12.50240"	19°44'35.56669"	P-255	21	81°56'55.43863"	19°46'30.02659"
P-206	18	82°01'13.84582"	19°44'41.94608"	P-256	21	81°56'55.26880"	19°46'42.62586"
P-207	18	82°01'14.01448"	19°44'42.64677"	P-257	21	81°56'54.65039"	19°46'30.27229"
P-208	18	82°01'14.01448"	19°44'42.64677"	P-258	22	81°55'34.19811"	19°46'36.23066"
P-209	18	82°01'20.73379"	19°44'42.06063"	P-259	22	81°55'53.35430"	19°46'39.65405"
P-210	18	82°01'24.96600"	19°44'40.97395"	P-260	22	81°55'53.03050"	19°46'39.65899"
P-211	18	82°01'35.82607"	19°44'35.10905"	P-261	22	81°55'55.32415"	19°46'45.75857"
P-212	18	82°01'40.25871"	19°44'30.13937"	P-262	22	81°55'56.03576"	19°46'47.01157"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-213	18	82°01'46.26718"	19°44'27.15090"	P-263	23	81°55'56.60546"	19°46'39.74541"
P-214	18	82°01'47.89428"	19°44'26.52190"	P-264	23	81°56'03.37297"	19°46'40.61664"
P-215	18	82°01'24.96600"	19°44'40.97395"	P-265	23	81°56'06.94487"	19°46'41.55946"
P-216	18	82°01'31.40843"	19°44'38.72824"	P-266	23	81°56'03.04122"	19°47'02.93917"
P-217	18	82°01'35.82607"	19°44'35.10905"	P-267	23	81°56'04.75952"	19°47'09.23173"
P-218	18	82°00'15.60152"	19°44'27.82159"	P-268	23	81°56'06.18729"	19°47'12.02853"
P-219	18	82°00'21.51281"	19°44'24.52473"	P-269	23	81°55'56.03576"	19°46'47.01157"
P-220	18	82°00'27.64395"	19°44'21.61217"	P-270	23	81°55'59.97464"	19°46'52.25182"
P-221	18	82°00'30.62990"	19°44'20.54015"	P-271	23	81°56'03.37603"	19°46'57.39447"
P-222	18	82°01'16.65792"	19°44'48.82030"	P-272	23	81°55'56.60651"	19°46'39.76168"
P-223	18	82°01'14.23643"	19°44'42.78564"	P-273	23	81°56'06.93709"	19°46'41.57430"
P-224	18	82°01'14.01448"	19°44'42.64677"	P-274	23	81°56'00.29495"	19°46'39.90835"
P-225	18	82°01'17.71207"	19°44'58.53511"	P-275	23	81°55'56.67681"	19°46'39.76203"
P-226	18	82°01'17.12411"	19°44'52.05493"	P-276	23	81°55'56.60546"	19°46'39.74541"
P-227	18	82°01'16.65792"	19°44'48.82030"	P-277	23	81°56'03.37297"	19°46'40.61664"
P-228	18	82°01'14.01448"	19°44'42.64677"	P-278	23	81°56'06.94487"	19°46'41.55946"
P-229	18	82°01'07.43826"	19°44'44.50972"	P-279	23	81°56'03.04122"	19°47'02.93917"
P-230	18	82°01'01.16859"	19°44'47.16647"	P-280	23	81°56'04.75952"	19°47'09.23173"
P-231	18	82°00'55.35809"	19°44'50.57383"	P-281	23	81°56'06.18729"	19°47'12.02853"
P-232	18	82°00'52.79630"	19°44'55.91669"	P-282	23	81°55'56.03576"	19°46'47.01157"
P-233	18	82°00'59.59750"	19°44'56.18748"	P-283	23	81°55'59.97464"	19°46'52.25182"
P-234	18	82°01'06.20435"	19°44'57.68060"	P-284	23	81°56'03.37603"	19°46'57.39447"
P-235	18	82°01'09.58404"	19°44'58.53762"	P-285	23	81°55'56.60651"	19°46'39.76168"
P-236	18	82°00'08.40470"	19°44'30.21606"	P-286	23	81°56'06.93709"	19°46'41.57430"
P-237	18	82°00'14.88753"	19°44'28.09718"	P-287	23	81°56'00.29495"	19°46'39.90835"
P-238	18	82°00'15.60152"	19°44'27.82159"	P-288	23	81°55'56.67681"	19°46'39.76203"
P-239	18	81°59'55.06649"	19°44'28.49254"	P-289	24	81°56'10.14666"	19°47'26.96762"
P-240	18	82°00'00.63711"	19°44'29.87862"	P-290	24	81°56'07.82000"	19°47'33.06140"
P-241	19	81°58'43.44527"	19°45'07.95628"	P-291	24	81°56'07.30451"	19°47'34.76018"
P-242	19	81°58'46.80236"	19°45'02.39127"	P-292	24	81°56'07.30451"	19°47'34.76018"
P-243	19	81°58'55.19369"	19°44'54.97682"	P-293	24	81°56'06.64779"	19°47'41.21652"
P-244	19	81°59'00.19668"	19°44'50.58960"	P-294	24	81°56'08.11544"	19°47'47.55095"
P-245	19	81°59'05.08309"	19°44'48.93839"	P-295	24	81°56'09.40385"	19°47'51.37182"
P-246	20	81°57'05.47441"	19°46'24.63059"	P-296	24	81°56'10.14666"	19°47'26.96762"
P-247	20	81°57'11.54524"	19°46'21.58323"	P-297	24	81°56'07.82000"	19°47'33.06140"
P-248	20	81°57'49.25285"	19°46'11.81464"	P-298	24	81°56'07.30451"	19°47'34.76018"
P-249	20	81°57'49.96233"	19°46'11.91269"	P-299	24	81°56'07.30451"	19°47'34.76018"
P-250	20	81°57'05.47441"	19°46'24.63059"	P-300	24	81°56'06.64779"	19°47'41.21652"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-301	24	81°56'08.11544"	19°47'47.55095"	P-351	26	81°53'50.86015"	19°48'22.32615"
P-302	24	81°56'09.40385"	19°47'51.37182"	P-352	26	81°53'46.61100"	19°48'27.43331"
P-303	25	81°54'16.96260"	19°46'23.76980"	P-353	26	81°53'42.09727"	19°48'32.33803"
P-304	25	81°54'18.03768"	19°46'24.73432"	P-354	26	81°53'38.70122"	19°48'37.96653"
P-305	25	81°55'01.93236"	19°46'41.80873"	P-355	26	81°53'36.37576"	19°48'44.08186"
P-306	25	81°55'03.54788"	19°46'42.16214"	P-356	26	81°53'36.03757"	19°48'45.64746"
P-307	25	81°54'51.70741"	19°46'32.72660"	P-357	26	81°54'02.83117"	19°46'45.94651"
P-308	25	81°54'32.47547"	19°46'28.83305"	P-358	26	81°54'06.64049"	19°46'43.06537"
P-309	25	81°54'39.25741"	19°46'29.87598"	P-359	26	81°53'19.67704"	19°47'02.71120"
P-310	25	81°54'29.06445"	19°46'28.56631"	P-360	26	81°53'26.17110"	19°47'00.93753"
P-311	25	81°54'30.06544"	19°46'28.65956"	P-361	26	81°53'32.87760"	19°47'01.49927"
P-312	26	81°53'36.03757"	19°48'45.64746"	P-362	26	81°53'37.94637"	19°46'57.72028"
P-313	26	81°53'35.19508"	19°48'52.08710"	P-363	26	81°53'44.63261"	19°46'56.25686"
P-314	26	81°53'36.60681"	19°48'58.42980"	P-364	26	81°53'51.07068"	19°46'54.05792"
P-315	26	81°53'38.51483"	19°49'04.67908"	P-365	26	81°54'06.28780"	19°46'43.82850"
P-316	26	81°53'39.91832"	19°49'11.03963"	P-366	26	81°54'06.96413"	19°46'43.29827"
P-317	26	81°53'42.16849"	19°49'17.16899"	P-367	26	81°54'12.19766"	19°47'42.27306"
P-318	26	81°53'42.85709"	19°49'23.55002"	P-368	26	81°54'12.14408"	19°47'42.49070"
P-319	26	81°53'42.94551"	19°49'30.05202"	P-369	26	81°54'12.19766"	19°47'42.27306"
P-320	26	81°53'40.85536"	19°49'36.20015"	P-370	26	81°54'12.14408"	19°47'42.49070"
P-321	26	81°53'39.41227"	19°49'42.55380"	P-371	26	81°54'14.82317"	19°47'27.48039"
P-322	26	81°53'37.85480"	19°49'48.88532"	P-372	26	81°54'26.60683"	19°46'40.48131"
P-323	26	81°53'35.17859"	19°49'54.85077"	P-373	26	81°54'25.36554"	19°46'46.75162"
P-324	26	81°53'31.04649"	19°49'59.76967"	P-374	26	81°54'23.95693"	19°46'53.10007"
P-325	26	81°53'24.49803"	19°50'01.74858"	P-375	26	81°54'23.46913"	19°46'59.57116"
P-326	26	81°53'18.21583"	19°50'04.36836"	P-376	26	81°54'23.23294"	19°47'00.54952"
P-327	26	81°53'12.05885"	19°50'07.26213"	P-377	27	81°54'59.87642"	19°50'58.19644"
P-328	26	81°53'11.43965"	19°50'07.61098"	P-378	27	81°55'04.74303"	19°50'53.67699"
P-329	26	81°54'13.61888"	19°47'33.83678"	P-379	27	81°55'10.72724"	19°50'50.74497"
P-330	26	81°54'12.57299"	19°47'40.26588"	P-380	27	81°55'17.15603"	19°50'48.44012"
P-331	26	81°54'12.19766"	19°47'42.27306"	P-381	27	81°55'23.57163"	19°50'46.10169"
P-332	26	81°54'23.23294"	19°47'00.54952"	P-382	27	81°55'29.87286"	19°50'43.50614"
P-333	26	81°54'21.70794"	19°47'06.89278"	P-383	27	81°55'36.01245"	19°50'40.60162"
P-334	26	81°54'19.75141"	19°47'13.12177"	P-384	27	81°55'42.00814"	19°50'37.41935"
P-335	26	81°54'17.49028"	19°47'19.26488"	P-385	27	81°55'43.04607"	19°50'37.00578"
P-336	26	81°54'15.37410"	19°47'25.45316"	P-386	27	81°55'43.04607"	19°50'37.00578"
P-337	26	81°53'49.15317"	19°46'54.81173"	P-387	27	81°55'49.46845"	19°50'34.68648"
P-338	26	81°53'42.57697"	19°46'56.56263"	P-388	27	81°55'54.37956"	19°50'31.86070"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-339	26	81°53'35.94023"	19°46'58.23336"	P-389	27	81°55'58.71010"	19°50'28.31391"
P-340	26	81°53'30.87005"	19°47'01.75773"	P-390	27	81°56'03.11900"	19°50'23.86988"
P-341	26	81°53'24.09463"	19°47'01.04423"	P-391	27	81°56'03.65102"	19°50'22.83816"
P-342	26	81°54'05.34150"	19°46'44.52560"	P-392	28	81°54'02.56737"	19°51'14.75779"
P-343	26	81°54'02.93126"	19°46'46.33927"	P-393	28	81°54'09.30572"	19°51'13.55095"
P-344	26	81°54'12.14408"	19°47'42.49070"	P-394	28	81°54'15.94183"	19°51'12.05119"
P-345	26	81°54'10.49945"	19°47'48.80689"	P-395	28	81°54'21.45792"	19°51'08.24486"
P-346	26	81°54'08.95974"	19°47'55.14632"	P-396	28	81°54'26.90523"	19°51'04.58872"
P-347	26	81°54'05.94098"	19°48'00.82069"	P-397	28	81°54'33.75673"	19°51'04.13694"
P-348	26	81°54'01.05234"	19°48'05.37384"	P-398	28	81°54'40.62816"	19°51'03.94405"
P-349	26	81°53'57.53615"	19°48'10.95831"	P-399	28	81°54'43.27195"	19°51'03.80032"
P-350	26	81°53'54.13933"	19°48'16.61212"	P-400	28	81°54'43.27195"	19°51'03.80032"
P-401	28	81°54'48.54158"	19°51'02.57249"	P-451	32	81°49'41.14418"	19°52'22.16889"
P-402	29	81°52'10.97762"	19°51'08.81284"	P-452	32	81°49'34.55681"	19°52'20.32783"
P-403	29	81°52'05.73157"	19°51'12.99981"	P-453	32	81°49'29.65373"	19°52'16.02207"
P-404	29	81°52'02.06036"	19°51'16.16788"	P-454	32	81°49'23.94707"	19°52'12.58499"
P-405	29	81°52'02.06036"	19°51'16.16788"	P-455	32	81°49'17.65294"	19°52'13.11121"
P-406	29	81°51'57.23135"	19°51'20.78672"	P-456	32	81°49'53.00854"	19°52'34.70820"
P-407	29	81°51'53.48703"	19°51'26.15784"	P-457	32	81°49'47.31535"	19°52'32.77074"
P-408	29	81°51'51.10360"	19°51'32.25618"	P-458	32	81°49'45.36626"	19°52'27.75110"
P-409	29	81°51'50.98336"	19°51'32.70646"	P-459	33	81°48'41.80569"	19°51'48.32194"
P-410	29	81°53'02.49901"	19°51'17.74114"	P-460	33	81°48'37.06652"	19°51'43.65903"
P-411	29	81°53'01.50299"	19°51'12.20967"	P-461	33	81°48'36.57744"	19°51'43.09687"
P-412	29	81°53'01.67869"	19°51'05.70760"	P-462	33	81°48'24.44903"	19°51'27.37509"
P-413	29	81°53'01.87949"	19°50'59.20929"	P-463	33	81°48'23.88543"	19°51'20.90848"
P-414	29	81°53'02.12849"	19°50'52.71988"	P-464	33	81°48'23.49249"	19°51'19.15455"
P-415	29	81°52'59.54105"	19°50'48.17083"	P-465	34	81°47'20.99067"	19°51'31.52513"
P-416	29	81°52'52.69110"	19°50'47.97530"	P-466	34	81°47'19.45662"	19°51'33.13285"
P-417	29	81°52'45.82935"	19°50'47.61340"	P-467	34	81°47'12.69975"	19°51'34.18402"
P-418	29	81°52'39.74874"	19°50'47.28964"	P-468	34	81°47'08.78477"	19°51'34.58132"
P-419	29	81°52'40.11207"	19°50'39.51578"	P-469	34	81°46'19.55623"	19°51'41.88228"
P-420	29	81°52'40.46809"	19°50'33.02352"	P-470	34	81°46'15.80886"	19°51'46.09275"
P-421	29	81°52'37.49165"	19°50'36.39560"	P-471	34	81°47'02.24713"	19°51'34.15517"
P-422	29	81°52'34.07450"	19°50'42.03917"	P-472	34	81°46'56.73233"	19°51'38.02511"
P-423	29	81°52'30.30760"	19°50'47.47282"	P-473	34	81°46'50.66004"	19°51'40.77014"
P-424	29	81°52'26.20665"	19°50'52.69039"	P-474	34	81°46'43.94246"	19°51'41.64460"
P-425	29	81°52'21.80474"	19°50'57.68486"	P-475	34	81°46'37.57631"	19°51'44.06967"
P-426	29	81°52'17.44545"	19°51'02.70980"	P-476	34	81°46'30.78409"	19°51'43.77397"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-427	29	81°52'12.86611"	19°51'07.54883"	P-477	34	81°47'05.73661"	19°51'33.44138"
P-428	29	81°52'10.97762"	19°51'08.81284"	P-478	35	81°44'56.38873"	19°51'34.71803"
P-429	29	81°52'39.74874"	19°50'47.28964"	P-479	35	81°44'57.48006"	19°51'28.29925"
P-430	29	81°52'39.96897"	19°50'40.87929"	P-480	35	81°44'59.49008"	19°51'22.08433"
P-431	29	81°52'40.11207"	19°50'39.51578"	P-481	35	81°45'01.05363"	19°51'18.65955"
P-432	30	81°51'06.92738"	19°51'32.02118"	P-482	35	81°44'57.35698"	19°51'53.66098"
P-433	30	81°51'00.33166"	19°51'33.26154"	P-483	35	81°44'56.30627"	19°51'47.23213"
P-434	30	81°50'54.07452"	19°51'35.16202"	P-484	35	81°44'55.93604"	19°51'40.78056"
P-435	30	81°50'50.13244"	19°51'40.38574"	P-485	35	81°44'56.38873"	19°51'34.71803"
P-436	30	81°50'44.93918"	19°51'44.58126"	P-486	35	81°45'01.05363"	19°51'18.65955"
P-437	30	81°50'39.75528"	19°51'48.67989"	P-487	35	81°45'02.83643"	19°51'12.42296"
P-438	30	81°50'38.40903"	19°51'53.25006"	P-488	35	81°45'03.64986"	19°51'05.97384"
P-439	30	81°50'38.40903"	19°51'53.25006"	P-489	35	81°45'04.04362"	19°51'03.52028"
P-440	30	81°50'37.93241"	19°51'53.89738"	P-490	36	81°44'19.92848"	19°50'46.83556"
P-441	31	81°50'10.15347"	19°52'11.60072"	P-491	36	81°44'13.43408"	19°50'48.71115"
P-442	31	81°50'09.60134"	19°52'18.07459"	P-492	36	81°44'06.87422"	19°50'50.52482"
P-443	31	81°50'07.47323"	19°52'24.25710"	P-493	36	81°44'00.09285"	19°50'49.48926"
P-444	31	81°50'04.66515"	19°52'29.86840"	P-494	36	81°43'53.93863"	19°50'52.05423"
P-445	31	81°50'04.66515"	19°52'29.86841"	P-495	36	81°43'48.14026"	19°50'55.51447"
P-446	31	81°50'30.04602"	19°51'58.59117"	P-496	36	81°43'41.38486"	19°50'56.26090"
P-447	31	81°50'26.84375"	19°52'03.13491"	P-497	36	81°43'34.67681"	19°50'56.48562"
P-448	31	81°50'20.39925"	19°52'05.10864"	P-498	36	81°43'29.06701"	19°51'00.19545"
P-449	31	81°50'14.85643"	19°52'08.88906"	P-499	36	81°43'28.46294"	19°51'00.51633"
P-450	31	81°50'12.46357"	19°52'09.50152"	P-500	36	81°43'28.46294"	19°51'00.51633"
P-501	36	81°43'23.59217"	19°51'05.10009"	P-551	41	81°42'04.39315"	19°47'28.87047"
P-502	36	81°43'18.81409"	19°51'08.71481"	P-552	41	81°41'58.00339"	19°47'30.88050"
P-503	36	81°43'10.26827"	19°51'10.37862"	P-553	41	81°41'51.60615"	19°47'32.79716"
P-504	36	81°43'02.66300"	19°51'14.92091"	P-554	41	81°41'45.90329"	19°47'36.42364"
P-505	36	81°42'57.57084"	19°51'20.30275"	P-555	41	81°41'40.27891"	19°47'40.16035"
P-506	36	81°42'50.85403"	19°51'21.16979"	P-556	41	81°41'38.80593"	19°47'41.14267"
P-507	36	81°42'51.46992"	19°51'21.20240"	P-557	42	81°42'58.67378"	19°47'01.82054"
P-508	36	81°42'50.23357"	19°51'21.18455"	P-558	42	81°43'05.48719"	19°47'01.95696"
P-509	36	81°44'22.22589"	19°50'39.06484"	P-559	42	81°43'09.38666"	19°47'01.32032"
P-510	36	81°44'19.81014"	19°50'36.92996"	P-560	42	81°42'37.27658"	19°47'11.19026"
P-511	37	81°43'51.37129"	19°49'49.00748"	P-561	42	81°42'43.31972"	19°47'08.15835"
P-512	37	81°43'51.29688"	19°49'42.58397"	P-562	42	81°42'48.83847"	19°47'04.30459"
P-513	37	81°43'51.96011"	19°49'36.11021"	P-563	42	81°42'55.03886"	19°47'02.59370"
P-514	37	81°43'51.91809"	19°49'29.91382"	P-564	43	81°44'04.19370"	19°45'22.64171"
P-515	37	81°43'51.91809"	19°49'29.91382"	P-565	43	81°44'10.93126"	19°45'23.91101"
P-516	37	81°43'51.51489"	19°49'23.42483"	P-566	43	81°44'17.40645"	19°45'25.93977"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-517	37	81°43'51.42688"	19°49'21.56250"	P-567	43	81°44'20.70133"	19°45'31.56800"
P-518	37	81°43'51.42688"	19°49'21.56250"	P-568	43	81°44'21.75704"	19°45'37.83987"
P-519	37	81°43'51.00766"	19°49'15.07359"	P-569	43	81°44'27.48599"	19°45'41.31384"
P-520	37	81°43'51.03004"	19°49'08.56843"	P-570	43	81°44'33.83161"	19°45'40.06306"
P-521	37	81°43'49.74543"	19°49'02.19230"	P-571	43	81°44'38.31532"	19°45'39.32690"
P-522	37	81°43'47.94109"	19°48'55.91562"	P-572	43	81°43'35.01942"	19°45'27.52416"
P-523	37	81°43'46.10471"	19°48'49.64673"	P-573	43	81°43'36.83670"	19°45'21.30924"
P-524	37	81°43'44.45163"	19°48'49.44556"	P-574	43	81°43'39.26551"	19°45'15.28514"
P-525	38	81°42'11.29430"	19°51'36.02636"	P-575	43	81°43'43.12892"	19°45'15.89079"
P-526	38	81°42'08.81720"	19°51'30.17777"	P-576	43	81°43'51.80194"	19°45'20.62228"
P-527	38	81°42'03.99186"	19°51'25.55715"	P-577	43	81°43'58.55844"	19°45'21.74937"
P-528	38	81°42'01.51139"	19°51'19.85183"	P-578	43	81°44'04.19370"	19°45'22.64171"
P-529	38	81°41'57.83607"	19°51'14.45518"	P-579	43	81°44'38.31532"	19°45'39.32690"
P-530	38	81°41'54.93810"	19°51'10.10509"	P-580	43	81°44'44.91392"	19°45'40.85712"
P-531	39	81°41'37.67481"	19°50'53.47054"	P-581	43	81°44'51.12822"	19°45'43.61685"
P-532	39	81°41'31.14553"	19°50'55.47616"	P-582	43	81°44'57.43295"	19°45'46.06434"
P-533	39	81°41'24.78703"	19°50'57.93335"	P-583	43	81°44'57.94131"	19°45'46.48409"
P-534	39	81°41'19.22351"	19°51'01.74334"	P-584	44	81°45'02.81061"	19°45'51.20688"
P-535	39	81°41'13.83991"	19°51'05.78931"	P-585	44	81°45'08.80538"	19°45'52.91025"
P-536	39	81°41'09.83176"	19°51'08.71173"	P-586	44	81°45'27.26525"	19°46'13.40718"
P-537	40	81°40'42.40493"	19°48'41.06708"	P-587	44	81°45'26.96399"	19°46'19.73231"
P-538	40	81°40'48.14363"	19°48'37.53480"	P-588	44	81°45'28.72010"	19°46'24.91767"
P-539	40	81°40'53.40405"	19°48'33.38685"	P-589	44	81°45'33.45082"	19°46'24.27290"
P-540	40	81°40'54.64391"	19°48'32.26106"	P-590	44	81°45'38.00714"	19°46'19.72045"
P-541	40	81°40'54.06647"	19°48'32.26326"	P-591	44	81°45'44.68584"	19°46'18.64319"
P-542	40	81°40'48.96751"	19°48'36.60840"	P-592	44	81°45'51.50817"	19°46'18.00324"
P-543	40	81°40'43.14327"	19°48'40.02580"	P-593	44	81°45'57.93103"	19°46'20.20891"
P-544	40	81°40'41.73991"	19°48'41.08085"	P-594	44	81°46'04.39453"	19°46'22.08084"
P-545	41	81°41'38.68477"	19°47'41.71360"	P-595	44	81°46'06.28884"	19°46'21.72417"
P-546	41	81°41'44.28394"	19°47'37.94503"	P-596	45	81°46'20.54831"	19°46'18.42143"
P-547	41	81°41'49.93944"	19°47'34.25009"	P-597	45	81°46'27.27046"	19°46'18.48009"
P-548	41	81°41'56.01003"	19°47'31.44428"	P-598	45	81°46'31.52313"	19°46'16.77271"
P-549	41	81°42'02.62251"	19°47'30.11406"	P-599	45	81°46'31.52313"	19°46'16.77271"
P-550	41	81°42'04.62431"	19°47'29.18225"	P-600	45	81°46'38.15508"	19°46'15.15519"
P-601	45	81°46'44.99632"	19°46'14.65810"	P-651	53	81°45'01.50586"	19°50'20.29165"
P-602	45	81°46'51.66764"	19°46'13.13517"	P-652	53	81°45'04.24420"	19°50'14.47297"
P-603	45	81°46'52.72985"	19°46'12.90144"	P-653	53	81°45'08.30823"	19°50'09.42103"
P-604	45	81°47'03.88879"	19°46'09.72493"	P-654	53	81°45'12.24259"	19°50'04.09393"
P-605	45	81°47'10.60484"	19°46'08.97492"	P-655	53	81°45'15.45655"	19°49'59.24314"
P-606	45	81°47'16.32905"	19°46'09.86570"	P-656	53	81°45'30.00686"	19°48'51.47886"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-607	46	81°48'05.19117"	19°46'00.21193"	P-657	53	81°45'36.14135"	19°48'48.64367"
P-608	46	81°48'11.97522"	19°46'01.22988"	P-658	53	81°45'41.76651"	19°48'44.91418"
P-609	46	81°48'18.74959"	19°46'01.27296"	P-659	53	81°45'44.23335"	19°48'39.06293"
P-610	46	81°48'19.92643"	19°46'00.92430"	P-660	53	81°45'45.14861"	19°48'32.62238"
P-611	47	81°48'26.34353"	19°45'07.38674"	P-661	53	81°45'45.18454"	19°48'32.13075"
P-612	47	81°48'23.98191"	19°45'02.18210"	P-662	53	81°45'15.45655"	19°49'59.24314"
P-613	47	81°48'20.34856"	19°45'06.78592"	P-663	53	81°45'17.61963"	19°49'53.17919"
P-614	47	81°48'17.41688"	19°45'08.84987"	P-664	53	81°45'19.95616"	19°49'47.10538"
P-615	48	81°48'35.57037"	19°45'50.37598"	P-665	53	81°45'26.32821"	19°49'30.51299"
P-616	48	81°48'37.27725"	19°45'44.08679"	P-666	53	81°45'26.77375"	19°49'24.07643"
P-617	48	81°48'36.60056"	19°45'37.64763"	P-667	53	81°45'25.98354"	19°49'17.64518"
P-618	48	81°48'35.52380"	19°45'31.30316"	P-668	53	81°45'24.80695"	19°49'11.30576"
P-619	48	81°48'35.50089"	19°45'31.24826"	P-669	53	81°45'23.69253"	19°49'09.77409"
P-620	49	81°49'18.26615"	19°45'47.13872"	P-670	53	81°45'45.18454"	19°48'32.13075"
P-621	49	81°49'18.71132"	19°45'46.96436"	P-671	53	81°45'45.41226"	19°48'26.72585"
P-622	49	81°49'18.71132"	19°45'46.96436"	P-672	53	81°45'52.15775"	19°48'26.27293"
P-623	49	81°49'24.89654"	19°45'44.14286"	P-673	53	81°45'58.96277"	19°48'25.50849"
P-624	49	81°49'30.91319"	19°45'41.04465"	P-674	53	81°45'29.16362"	19°48'51.53638"
P-625	49	81°49'37.07983"	19°45'38.18470"	P-675	53	81°45'22.37085"	19°49'42.07042"
P-626	49	81°49'43.63399"	19°45'36.29935"	P-676	53	81°45'24.75137"	19°49'35.96832"
P-627	49	81°49'45.07189"	19°45'35.94169"	P-677	53	81°45'25.76260"	19°49'32.94604"
P-628	49	81°50'24.68919"	19°45'28.20168"	P-678	54	81°46'12.49938"	19°50'23.91016"
P-629	49	81°50'27.16570"	19°45'28.39221"	P-679	54	81°46'06.29558"	19°50'26.61305"
P-630	50	81°48'55.62001"	19°47'32.12148"	P-680	54	81°45'59.87720"	19°50'28.94452"
P-631	50	81°49'01.84130"	19°47'29.72336"	P-681	54	81°45'53.39121"	19°50'31.09964"
P-632	50	81°49'05.96321"	19°47'29.53340"	P-682	54	81°45'46.97981"	19°50'33.43909"
P-633	51	81°47'04.00342"	19°48'01.59376"	P-683	54	81°45'45.15119"	19°50'34.28007"
P-634	51	81°47'05.44786"	19°48'01.15581"	P-684	55	81°47'09.95206"	19°50'00.29191"
P-635	51	81°47'05.44786"	19°48'01.15581"	P-685	55	81°47'03.09086"	19°50'00.02431"
P-636	51	81°47'11.86632"	19°47'58.91711"	P-686	55	81°46'56.57087"	19°50'01.97132"
P-637	51	81°47'18.06775"	19°47'56.14719"	P-687	55	81°46'50.03100"	19°50'03.97089"
P-638	51	81°47'24.53414"	19°47'54.53564"	P-688	55	81°46'43.81171"	19°50'06.73222"
P-639	51	81°47'30.85958"	19°47'52.02474"	P-689	55	81°46'37.71356"	19°50'09.73332"
P-640	51	81°47'37.08676"	19°47'49.30538"	P-690	55	81°46'33.72971"	19°50'11.65267"
P-641	51	81°47'42.43687"	19°47'45.36813"	P-691	56	81°47'32.39345"	19°49'56.71566"
P-642	51	81°47'45.82249"	19°47'40.13547"	P-692	56	81°47'26.84263"	19°49'57.82475"
P-643	51	81°47'52.16663"	19°47'37.77696"	P-693	56	81°47'35.39963"	19°49'55.77442"
P-644	51	81°47'56.44795"	19°47'35.48176"	P-694	56	81°47'32.39345"	19°49'56.71566"
P-645	52	81°46'15.13587"	19°48'19.51077"	P-695	56	81°48'16.95887"	19°49'31.50717"
P-646	52	81°46'21.80412"	19°48'18.44755"	P-696	56	81°48'11.30638"	19°49'35.20711"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-647	52	81°46'28.23449"	19°48'16.20650"	P-697	56	81°48'06.47576"	19°49'39.79194"
P-648	52	81°46'34.75914"	19°48'14.18773"	P-698	56	81°48'01.13640"	19°49'43.85765"
P-649	52	81°46'36.79332"	19°48'13.30872"	P-699	56	81°47'55.36103"	19°49'47.38628"
P-650	53	81°45'00.54370"	19°50'26.70768"	P-700	56	81°47'49.52065"	19°49'50.81292"
P-701	56	81°47'43.21201"	19°49'53.36028"	P-751	58	81°53'19.67704"	19°47'02.71120"
P-702	56	81°47'41.82139"	19°49'53.79120"	P-752	58	81°50'29.55737"	19°48'18.62988"
P-703	57	81°49'04.98329"	19°48'52.89063"	P-753	58	81°50'35.30021"	19°48'15.10151"
P-704	57	81°48'59.40633"	19°48'56.69269"	P-754	58	81°50'40.43812"	19°48'10.78484"
P-705	57	81°48'53.17725"	19°48'59.41240"	P-755	58	81°50'45.56024"	19°48'06.49612"
P-706	57	81°48'47.89879"	19°49'03.51892"	P-756	58	81°50'51.99918"	19°48'04.30719"
P-707	57	81°48'42.99917"	19°49'08.08078"	P-757	58	81°50'58.67539"	19°48'02.77355"
P-708	57	81°48'40.84407"	19°49'09.98475"	P-758	58	81°50'21.95854"	19°47'58.72096"
P-709	58	81°53'19.66674"	19°47'02.69817"	P-759	58	81°50'23.67954"	19°48'05.01910"
P-710	58	81°53'14.36430"	19°47'06.83278"	P-760	58	81°50'25.62827"	19°48'11.25231"
P-711	58	81°53'11.14277"	19°47'09.37551"	P-761	58	81°50'28.10494"	19°48'17.15227"
P-712	58	81°50'26.45152"	19°48'19.98009"	P-762	58	81°50'29.55737"	19°48'18.62988"
P-713	58	81°50'19.87083"	19°48'21.81877"	P-763	58	81°51'28.82759"	19°47'50.54351"
P-714	58	81°50'13.10423"	19°48'22.94933"	P-764	58	81°51'35.64318"	19°47'50.15035"
P-715	58	81°50'09.07909"	19°48'25.68080"	P-765	58	81°51'42.23974"	19°47'48.45040"
P-716	58	81°50'29.55737"	19°48'18.62988"	P-766	58	81°51'48.86198"	19°47'46.85229"
P-717	58	81°50'56.91495"	19°48'03.20638"	P-767	58	81°51'55.66139"	19°47'45.91314"
P-718	58	81°50'50.21335"	19°48'04.63535"	P-768	58	81°52'02.50478"	19°47'45.56410"
P-719	58	81°50'44.05809"	19°48'07.43959"	P-769	58	81°52'08.36221"	19°47'42.44050"
P-720	58	81°50'39.12685"	19°48'11.96510"	P-770	58	81°52'13.76424"	19°47'38.42015"
P-721	58	81°50'33.81138"	19°48'16.07123"	P-771	58	81°52'18.33360"	19°47'34.95052"
P-722	58	81°50'29.55737"	19°48'18.62988"	P-772	58	81°52'23.78187"	19°47'31.82274"
P-723	58	81°52'18.35167"	19°47'34.91432"	P-773	58	81°52'30.41309"	19°47'30.17938"
P-724	58	81°52'12.99164"	19°47'38.98455"	P-774	58	81°52'37.03282"	19°47'28.62498"
P-725	58	81°52'07.59106"	19°47'43.00676"	P-775	58	81°52'42.26354"	19°47'24.43167"
P-726	58	81°52'01.51834"	19°47'45.57855"	P-776	58	81°52'48.11689"	19°47'21.07097"
P-727	58	81°51'54.69153"	19°47'46.07298"	P-777	58	81°52'54.17458"	19°47'17.99796"
P-728	58	81°51'47.88376"	19°47'46.96404"	P-778	58	81°52'59.85781"	19°47'14.34987"
P-729	58	81°51'41.33636"	19°47'48.81133"	P-779	58	81°53'06.00319"	19°47'11.54637"
P-730	58	81°51'34.66682"	19°47'50.26570"	P-780	58	81°53'11.06038"	19°47'09.43849"
P-731	58	81°51'28.83998"	19°47'50.52484"	P-781	58	81°51'02.75518"	19°48'01.69998"
P-732	58	81°53'11.14277"	19°47'09.37551"	P-782	58	81°51'09.32846"	19°47'59.80021"
P-733	58	81°53'04.85933"	19°47'12.00250"	P-783	58	81°51'15.51335"	19°47'57.14006"
P-734	58	81°52'58.86691"	19°47'15.05104"	P-784	58	81°51'21.05625"	19°47'53.30688"
P-735	58	81°52'53.08076"	19°47'18.55034"	P-785	58	81°51'27.45637"	19°47'50.95255"
P-736	58	81°52'47.01744"	19°47'21.61375"	P-786	58	81°51'28.82759"	19°47'50.54351"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-737	58	81°52'41.31715"	19°47'25.18459"	P-787	58	81°52'18.33360"	19°47'34.95052"
P-738	58	81°52'35.92142"	19°47'29.14222"	P-788	58	81°52'23.78187"	19°47'31.82274"
P-739	58	81°52'29.19386"	19°47'30.41622"	P-789	59	81°52'17.85291"	19°45'48.26658"
P-740	58	81°52'23.77116"	19°47'31.80975"	P-790	59	81°52'24.70890"	19°45'48.50684"
P-741	58	81°51'28.83998"	19°47'50.52484"	P-791	59	81°52'31.52993"	19°45'48.54791"
P-742	58	81°51'22.38254"	19°47'52.72629"	P-792	59	81°52'38.37051"	19°45'49.16488"
P-743	58	81°51'16.67431"	19°47'56.29401"	P-793	59	81°52'44.94375"	19°45'50.72658"
P-744	58	81°51'10.71624"	19°47'59.37698"	P-794	59	81°52'50.48595"	19°45'54.56486"
P-745	58	81°51'04.14396"	19°48'01.27893"	P-795	59	81°52'56.02272"	19°45'58.40649"
P-746	58	81°51'02.70698"	19°48'01.69644"	P-796	59	81°53'02.43694"	19°46'00.25474"
P-747	58	81°52'23.77116"	19°47'31.80975"	P-797	59	81°53'09.12855"	19°46'01.68745"
P-748	58	81°52'18.35167"	19°47'34.91432"	P-798	59	81°53'15.58196"	19°46'03.78434"
P-749	58	81°53'11.06038"	19°47'09.43849"	P-799	59	81°53'21.68327"	19°46'06.46737"
P-750	58	81°53'16.30418"	19°47'05.24261"	P-800	59	81°53'24.92865"	19°46'06.20157"
P-801	59	81°53'43.05195"	19°46'10.77568"	P-851	62	81°52'04.93741"	19°43'14.82021"
P-802	59	81°53'47.22687"	19°46'15.93460"	P-852	62	81°52'08.75161"	19°43'15.67870"
P-803	59	81°53'47.85652"	19°46'16.69908"	P-853	62	81°52'08.75161"	19°43'15.67870"
P-804	60	81°54'32.28763"	19°44'34.84424"	P-854	62	81°52'15.50185"	19°43'16.87730"
P-805	60	81°54'32.14560"	19°44'35.03310"	P-855	62	81°52'22.07601"	19°43'18.71728"
P-806	60	81°54'39.40647"	19°44'21.16011"	P-856	62	81°52'27.73205"	19°43'22.35771"
P-807	60	81°54'36.99775"	19°44'27.25165"	P-857	62	81°52'33.53423"	19°43'24.16513"
P-808	60	81°54'33.79239"	19°44'32.95888"	P-858	62	81°52'33.53423"	19°43'24.16513"
P-809	60	81°54'32.28763"	19°44'34.84424"	P-859	62	81°52'37.92657"	19°43'28.85892"
P-810	60	81°54'32.14560"	19°44'35.03310"	P-860	62	81°52'41.29729"	19°43'34.52386"
P-811	60	81°54'28.54277"	19°44'40.56988"	P-861	62	81°52'46.15726"	19°43'38.92320"
P-812	60	81°54'24.90402"	19°44'46.08774"	P-862	62	81°52'49.29930"	19°43'39.73865"
P-813	60	81°54'21.25202"	19°44'51.59579"	P-863	62	81°52'49.29930"	19°43'39.73865"
P-814	60	81°54'18.26148"	19°44'57.43461"	P-864	62	81°52'56.12784"	19°43'40.06562"
P-815	60	81°54'16.43240"	19°45'03.67538"	P-865	62	81°53'02.99506"	19°43'40.14399"
P-816	60	81°54'15.67888"	19°45'10.13927"	P-866	62	81°53'09.79510"	19°43'39.70614"
P-817	60	81°54'12.74672"	19°45'15.92108"	P-867	62	81°53'15.56961"	19°43'40.69353"
P-818	60	81°54'08.85321"	19°45'21.28090"	P-868	62	81°50'19.74693"	19°43'47.06307"
P-819	60	81°54'04.92122"	19°45'26.61616"	P-869	62	81°50'26.30331"	19°43'45.51184"
P-820	60	81°54'02.02952"	19°45'30.65471"	P-870	62	81°50'33.13603"	19°43'44.86002"
P-821	60	81°53'58.89728"	19°45'34.96606"	P-871	62	81°50'33.73365"	19°43'44.76987"
P-822	60	81°53'55.25254"	19°45'40.26311"	P-872	62	81°50'34.34599"	19°43'44.67706"
P-823	60	81°53'53.96453"	19°45'45.93776"	P-873	62	81°50'40.90829"	19°43'42.82139"
P-824	60	81°53'54.02601"	19°45'46.15461"	P-874	62	81°50'47.41206"	19°43'40.73381"
P-825	60	81°54'02.02952"	19°45'30.65471"	P-875	62	81°50'53.98394"	19°43'38.88964"
P-826	60	81°53'58.89728"	19°45'34.96606"	P-876	62	81°50'59.65291"	19°43'35.28375"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-827	60	81°54'42.11763"	19°44'08.27521"	P-877	62	81°50'59.99976"	19°43'35.05014"
P-828	60	81°54'40.94971"	19°44'14.68177"	P-878	63	81°49'40.71182"	19°44'03.78449"
P-829	60	81°54'40.02296"	19°44'19.47652"	P-879	63	81°49'45.07578"	19°44'00.81119"
P-830	60	81°54'53.35390"	19°43'50.00722"	P-880	63	81°49'49.65689"	19°43'56.04537"
P-831	60	81°54'49.39238"	19°43'54.43815"	P-881	63	81°49'56.00885"	19°43'53.67915"
P-832	60	81°54'49.38928"	19°43'54.44184"	P-882	63	81°49'59.97633"	19°43'51.01231"
P-833	60	81°54'45.25437"	19°43'59.63407"	P-883	64	81°48'05.78028"	19°43'28.85777"
P-834	60	81°54'43.50978"	19°44'02.95456"	P-884	64	81°48'12.64547"	19°43'28.67287"
P-835	61	81°53'53.47591"	19°43'35.30974"	P-885	64	81°48'19.51032"	19°43'28.52416"
P-836	61	81°53'59.98529"	19°43'36.09599"	P-886	64	81°48'23.96089"	19°43'28.54092"
P-837	61	81°54'00.24528"	19°43'36.14367"	P-887	64	81°47'26.67934"	19°43'24.67461"
P-838	61	81°54'00.24529"	19°43'36.14367"	P-888	64	81°47'33.15235"	19°43'26.85344"
P-839	61	81°54'06.37782"	19°43'38.98910"	P-889	64	81°47'39.83388"	19°43'28.33104"
P-840	61	81°54'12.30866"	19°43'42.13488"	P-890	64	81°47'46.62376"	19°43'29.27353"
P-841	61	81°54'14.48069"	19°43'43.55928"	P-891	64	81°47'53.49141"	19°43'29.11254"
P-842	62	81°50'59.99976"	19°43'35.05014"	P-892	64	81°48'00.35902"	19°43'28.97697"
P-843	62	81°51'03.58266"	19°43'32.74082"	P-893	64	81°48'05.78028"	19°43'28.85777"
P-844	62	81°51'03.58266"	19°43'32.74082"	P-894	64	81°47'05.74390"	19°43'16.83001"
P-845	62	81°51'08.69350"	19°43'28.45534"	P-895	64	81°47'12.18267"	19°43'19.09537"
P-846	62	81°51'13.20881"	19°43'23.55674"	P-896	64	81°47'18.64624"	19°43'21.22689"
P-847	62	81°51'18.27761"	19°43'19.22682"	P-897	64	81°47'19.75218"	19°43'21.81920"
P-848	62	81°51'23.14519"	19°43'14.79719"	P-898	64	81°47'19.75218"	19°43'21.81920"
P-849	62	81°51'25.84763"	19°43'12.90305"	P-899	64	81°47'26.01531"	19°43'24.46608"
P-850	62	81°51'58.82110"	19°43'13.07677"	P-900	64	81°47'26.67934"	19°43'24.67461"
P-901	64	81°48'23.96089"	19°43'28.54092"	P-951	68	81°45'58.54429"	19°39'14.88144"
P-902	64	81°48'30.82859"	19°43'28.45605"	P-952	68	81°45'57.31839"	19°39'15.78667"
P-903	64	81°48'33.10584"	19°43'28.47272"	P-953	69	81°52'02.31488"	19°36'45.58934"
P-904	64	81°48'33.10584"	19°43'28.47272"	P-954	69	81°51'55.45854"	19°36'45.50063"
P-905	64	81°48'39.06678"	19°43'28.48303"	P-955	69	81°51'48.62251"	19°36'44.98693"
P-906	65	81°46'09.72045"	19°42'51.13846"	P-956	69	81°51'41.79248"	19°36'44.44457"
P-907	65	81°46'14.73799"	19°42'55.56967"	P-957	69	81°51'35.09032"	19°36'43.12348"
P-908	65	81°46'19.73054"	19°42'59.09782"	P-958	69	81°51'34.62166"	19°36'43.02940"
P-909	65	81°45'48.17643"	19°43'37.05249"	P-959	69	81°51'34.62166"	19°36'43.02940"
P-910	65	81°45'46.64219"	19°43'42.94275"	P-960	69	81°51'27.87651"	19°36'43.79416"
P-911	65	81°45'44.72317"	19°43'49.09148"	P-961	69	81°51'21.01639"	19°36'43.54509"
P-912	65	81°45'41.40306"	19°43'54.76735"	P-962	69	81°51'14.15471"	19°36'43.35567"
P-913	65	81°45'39.32601"	19°44'00.96056"	P-963	69	81°51'07.29526"	19°36'43.13904"
P-914	65	81°45'39.01793"	19°44'01.93014"	P-964	69	81°51'00.67356"	19°36'42.90060"
P-915	65	81°46'09.70874"	19°42'51.15269"	P-965	69	81°50'53.82828"	19°36'43.04177"
P-916	65	81°46'11.73955"	19°42'54.51580"	P-966	69	81°50'46.96384"	19°36'43.03609"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-917	66	81°45'07.34709"	19°42'01.92616"	P-967	69	81°50'45.28684"	19°36'43.05016"
P-918	66	81°45'11.64437"	19°42'07.00041"	P-968	69	81°47'28.34673"	19°37'38.01276"
P-919	66	81°45'16.45303"	19°42'11.54157"	P-969	69	81°47'23.39037"	19°37'42.49512"
P-920	66	81°45'22.45166"	19°42'14.71062"	P-970	69	81°47'19.38573"	19°37'47.74450"
P-921	66	81°45'28.40179"	19°42'17.95999"	P-971	69	81°47'16.70871"	19°37'53.72982"
P-922	66	81°45'34.04544"	19°42'21.57664"	P-972	69	81°47'13.01455"	19°37'57.53033"
P-923	66	81°45'36.78168"	19°42'24.01933"	P-973	69	81°48'58.58103"	19°36'40.04887"
P-924	67	81°44'17.37844"	19°39'57.74815"	P-974	69	81°48'51.72098"	19°36'39.84103"
P-925	67	81°44'13.61782"	19°40'03.13743"	P-975	69	81°48'44.86706"	19°36'39.49282"
P-926	67	81°44'13.43587"	19°40'09.40771"	P-976	69	81°48'38.01339"	19°36'39.14146"
P-927	67	81°44'08.62545"	19°40'13.69368"	P-977	69	81°48'31.15122"	19°36'38.95849"
P-928	67	81°44'04.03601"	19°40'18.50622"	P-978	69	81°48'24.28941"	19°36'38.74760"
P-929	67	81°44'01.83420"	19°40'24.50886"	P-979	69	81°48'17.42907"	19°36'38.49977"
P-930	67	81°43'56.52189"	19°40'28.34126"	P-980	69	81°48'10.57095"	19°36'38.22044"
P-931	67	81°43'49.85463"	19°40'28.41786"	P-981	69	81°48'03.96629"	19°36'36.64142"
P-932	67	81°43'43.51476"	19°40'30.70568"	P-982	69	81°47'57.29620"	19°36'37.96887"
P-933	67	81°43'37.41415"	19°40'33.45209"	P-983	69	81°47'50.43412"	19°36'37.81470"
P-934	67	81°43'37.03031"	19°40'36.08529"	P-984	69	81°47'47.67762"	19°36'37.77872"
P-935	67	81°43'43.33699"	19°40'38.65709"	P-985	69	81°49'08.38448"	19°36'40.60053"
P-936	67	81°43'45.05352"	19°40'39.38636"	P-986	69	81°49'01.53624"	19°36'40.14166"
P-937	68	81°47'04.40650"	19°38'46.04897"	P-987	69	81°48'58.58103"	19°36'40.04887"
P-938	68	81°47'01.02686"	19°38'51.70120"	P-988	69	81°50'45.28684"	19°36'43.05016"
P-939	68	81°46'57.54453"	19°38'57.28189"	P-989	69	81°50'38.42153"	19°36'43.07163"
P-940	68	81°46'54.70156"	19°39'03.17248"	P-990	69	81°50'31.55675"	19°36'43.07860"
P-941	68	81°46'51.69222"	19°39'05.95505"	P-991	69	81°50'24.69298"	19°36'42.97758"
P-942	68	81°46'51.69222"	19°39'05.95505"	P-992	69	81°50'17.82795"	19°36'42.98807"
P-943	68	81°46'44.91067"	19°39'05.79622"	P-993	69	81°50'10.96314"	19°36'42.94105"
P-944	68	81°46'38.10138"	19°39'05.00517"	P-994	69	81°50'04.10712"	19°36'42.62247"
P-945	68	81°46'31.33294"	19°39'03.93602"	P-995	69	81°49'57.24985"	19°36'42.35569"
P-946	68	81°46'24.51297"	19°39'03.18404"	P-996	69	81°49'54.99139"	19°36'42.33031"
P-947	68	81°46'17.72915"	19°39'02.18095"	P-997	69	81°49'54.99139"	19°36'42.33031"
P-948	68	81°46'10.94476"	19°39'01.25351"	P-998	69	81°49'48.13077"	19°36'42.11575"
P-949	68	81°46'06.96357"	19°39'05.76377"	P-999	69	81°49'41.27110"	19°36'41.86099"
P-950	68	81°46'04.14874"	19°39'11.14922"	P-1000	69	81°49'34.41057"	19°36'41.65273"
P-1001	69	81°49'27.55200"	19°36'41.37477"	P-1051	72	81°56'24.21571"	19°38'40.96279"
P-1002	69	81°49'20.69463"	19°36'41.06140"	P-1052	72	81°56'24.28291"	19°38'41.78102"
P-1003	69	81°49'13.83413"	19°36'40.81488"	P-1053	72	81°56'19.47316"	19°37'35.69819"
P-1004	69	81°49'08.38448"	19°36'40.60053"	P-1054	72	81°56'19.19949"	19°37'42.17476"
P-1005	70	81°55'06.12963"	19°36'53.49140"	P-1055	72	81°56'19.84424"	19°37'48.64949"
P-1006	70	81°55'12.98416"	19°36'53.13103"	P-1056	72	81°56'20.03875"	19°37'50.94903"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-1007	70	81°55'19.84517"	19°36'52.90680"	P-1057	72	81°56'20.05503"	19°37'51.14634"
P-1008	70	81°55'26.73937"	19°36'52.52182"	P-1058	72	81°56'20.62878"	19°37'57.62483"
P-1009	70	81°55'33.24789"	19°36'50.50464"	P-1059	72	81°56'21.15231"	19°38'04.11049"
P-1010	70	81°55'39.21322"	19°36'47.28764"	P-1060	72	81°56'21.65982"	19°38'10.59442"
P-1011	70	81°55'45.20525"	19°36'44.11253"	P-1061	72	81°56'22.13140"	19°38'15.02639"
P-1012	70	81°55'50.48834"	19°36'39.96977"	P-1062	72	81°56'24.47309"	19°38'44.37997"
P-1013	70	81°55'55.55374"	19°36'35.58441"	P-1063	72	81°56'24.07194"	19°38'50.81585"
P-1014	70	81°56'01.44522"	19°36'32.25058"	P-1064	72	81°56'20.81997"	19°38'56.53574"
P-1015	70	81°56'07.60080"	19°36'29.38238"	P-1065	72	81°56'17.42887"	19°39'02.19292"
P-1016	70	81°56'10.93879"	19°36'28.26647"	P-1066	72	81°56'14.11159"	19°39'07.88872"
P-1017	70	81°55'06.12963"	19°36'53.49140"	P-1067	72	81°56'10.83429"	19°39'13.60570"
P-1018	70	81°54'59.27040"	19°36'53.75360"	P-1068	72	81°56'07.47922"	19°39'19.27866"
P-1019	70	81°54'52.40823"	19°36'53.74758"	P-1069	72	81°56'04.32631"	19°39'24.63502"
P-1020	70	81°54'45.54712"	19°36'53.53646"	P-1070	73	81°54'57.25338"	19°43'39.56941"
P-1021	70	81°54'38.68312"	19°36'53.40316"	P-1071	73	81°54'57.10294"	19°43'40.29239"
P-1022	70	81°54'36.61114"	19°36'53.36360"	P-1072	73	81°54'56.52122"	19°43'39.55231"
P-1023	70	81°53'59.99684"	19°36'51.88843"	P-1073	73	81°54'57.25338"	19°43'39.56941"
P-1024	70	81°54'06.85873"	19°36'52.06252"	P-1074	73	81°55'16.41971"	19°42'37.66194"
P-1025	70	81°54'13.71595"	19°36'52.38142"	P-1075	73	81°55'14.56678"	19°42'43.92575"
P-1026	70	81°54'20.57077"	19°36'52.67213"	P-1076	73	81°55'12.76487"	19°42'50.20320"
P-1027	70	81°54'27.42310"	19°36'53.03942"	P-1077	73	81°55'10.85419"	19°42'56.45139"
P-1028	70	81°54'34.28216"	19°36'53.31442"	P-1078	73	81°55'09.02012"	19°43'02.72040"
P-1029	70	81°54'36.61114"	19°36'53.36360"	P-1079	73	81°55'06.88026"	19°43'08.90168"
P-1030	70	81°53'02.97262"	19°36'49.20431"	P-1080	73	81°55'04.84096"	19°43'15.11298"
P-1031	70	81°53'09.81216"	19°36'49.76808"	P-1081	73	81°55'03.02389"	19°43'21.38650"
P-1032	70	81°53'16.65701"	19°36'50.26239"	P-1082	73	81°55'01.06465"	19°43'27.62162"
P-1033	70	81°53'23.50010"	19°36'50.78320"	P-1083	73	81°54'59.30116"	19°43'33.27617"
P-1034	70	81°53'30.32928"	19°36'51.45191"	P-1084	73	81°55'18.02181"	19°42'32.38721"
P-1035	70	81°53'37.16746"	19°36'51.34037"	P-1085	73	81°55'16.41971"	19°42'37.66194"
P-1036	70	81°53'44.02607"	19°36'51.41667"	P-1086	73	81°54'59.30116"	19°43'33.27617"
P-1037	70	81°53'50.88809"	19°36'51.51338"	P-1087	73	81°54'57.28332"	19°43'39.49413"
P-1038	70	81°53'57.73940"	19°36'51.93170"	P-1088	73	81°54'57.25338"	19°43'39.56941"
P-1039	70	81°53'59.99684"	19°36'51.88843"	P-1089	73	81°55'31.49789"	19°41'49.30454"
P-1040	71	81°56'26.58472"	19°36'36.58669"	P-1090	73	81°55'29.87880"	19°41'54.81651"
P-1041	71	81°56'25.90842"	19°36'42.80814"	P-1091	73	81°55'27.02169"	19°42'00.49809"
P-1042	71	81°56'22.51174"	19°36'48.31255"	P-1092	73	81°55'25.11702"	19°42'06.74436"
P-1043	72	81°56'21.53989"	19°37'12.08406"	P-1093	73	81°55'23.45576"	19°42'13.05321"
P-1044	72	81°56'21.84730"	19°37'18.57423"	P-1094	73	81°55'21.79781"	19°42'19.36661"
P-1045	72	81°56'21.19637"	19°37'24.99348"	P-1095	73	81°55'19.96879"	19°42'25.63743"
P-1046	72	81°56'20.30395"	19°37'30.09116"	P-1096	73	81°55'18.16468"	19°42'31.91442"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-1047	72	81°56'22.13140"	19°38'15.02639"	P-1097	73	81°55'18.02181"	19°42'32.38721"
P-1048	72	81°56'22.74031"	19°38'21.50360"	P-1098	73	81°56'00.72471"	19°39'30.84638"
P-1049	72	81°56'23.19071"	19°38'27.99365"	P-1099	73	81°55'57.43066"	19°39'36.55346"
P-1050	72	81°56'23.72502"	19°38'34.47757"	P-1100	73	81°55'54.02051"	19°39'42.19530"
P-1101	73	81°55'52.44791"	19°39'48.37171"	 Range Officer Makdi			
P-1102	73	81°55'52.93867"	19°39'54.85984"				
P-1103	73	81°55'53.45034"	19°40'01.34538"	 Range Officer Amrawati			
P-1104	73	81°55'53.80010"	19°40'07.84087"				
P-1105	73	81°55'54.35686"	19°40'14.31852"	 Range Officer Marangi Range			
P-1106	73	81°55'54.47615"	19°40'15.84369"				
P-1107	73	81°55'54.47615"	19°40'15.84369"	 Range Officer Marangi Range			
P-1108	73	81°55'54.38236"	19°40'22.33550"				
P-1109	73	81°55'53.24128"	19°40'28.74920"	 Range Officer Marangi Range			
P-1110	73	81°55'52.61818"	19°40'32.04590"				
P-1111	73	81°55'52.61818"	19°40'32.04590"	 Range Officer Marangi Range			
P-1112	73	81°55'51.30698"	19°40'38.43161"				
P-1113	73	81°55'50.06274"	19°40'44.82597"	 Range Officer Marangi Range			
P-1114	73	81°55'49.41237"	19°40'51.29134"				
P-1115	73	81°55'48.99983"	19°40'57.77749"	 Range Officer Marangi Range			
P-1116	73	81°55'47.85148"	19°41'04.14039"				
P-1117	73	81°55'45.48569"	19°41'10.24578"	 Range Officer Marangi Range			
P-1118	73	81°55'42.53361"	19°41'16.08306"				
P-1119	73	81°55'38.71583"	19°41'21.47835"	 Range Officer Marangi Range			
P-1120	73	81°55'36.74233"	19°41'27.66322"				
P-1121	73	81°55'35.36598"	19°41'32.36358"	 Range Officer Marangi Range			
P-1122	73	81°55'35.36598"	19°41'32.36358"				
P-1123	73	81°55'33.46972"	19°41'38.61398"	 Range Officer Marangi Range			
P-1124	73	81°55'32.47999"	19°41'45.02837"				
P-1125	73	81°55'31.49789"	19°41'49.30454"	 Range Officer Marangi Range			
P-1126	74	81°42'30.19495"	19°43'18.17407"				
P-1127	74	81°42'24.80675"	19°43'20.13667"	 Range Officer Marangi Range			
P-1128	74	81°42'22.25787"	19°43'19.75261"				
P-1129	74	81°42'30.61132"	19°43'16.73959"	 Range Officer Marangi Range			
P-1130	74	81°42'30.19495"	19°43'18.17407"				
P-1131	75	81°28'58.91632"	19°38'47.71677"	 Range Officer Marangi Range			
P-1132	75	81°28'52.22655"	19°38'49.07378"				
P-1133	75	81°28'45.57832"	19°38'50.70122"	 Range Officer Marangi Range			
P-1134	75	81°28'42.08518"	19°38'51.55685"				

Range Officer
Makdi

Range Officer
Amrawati

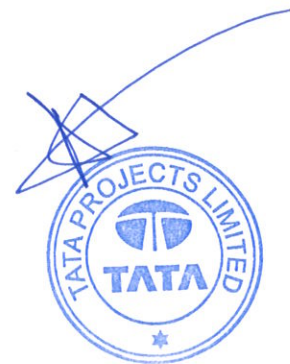
महारी वन परिक्षेत्र अधिकारी
मलमुला परिक्षेत्र

Range Officer
Marangi Range

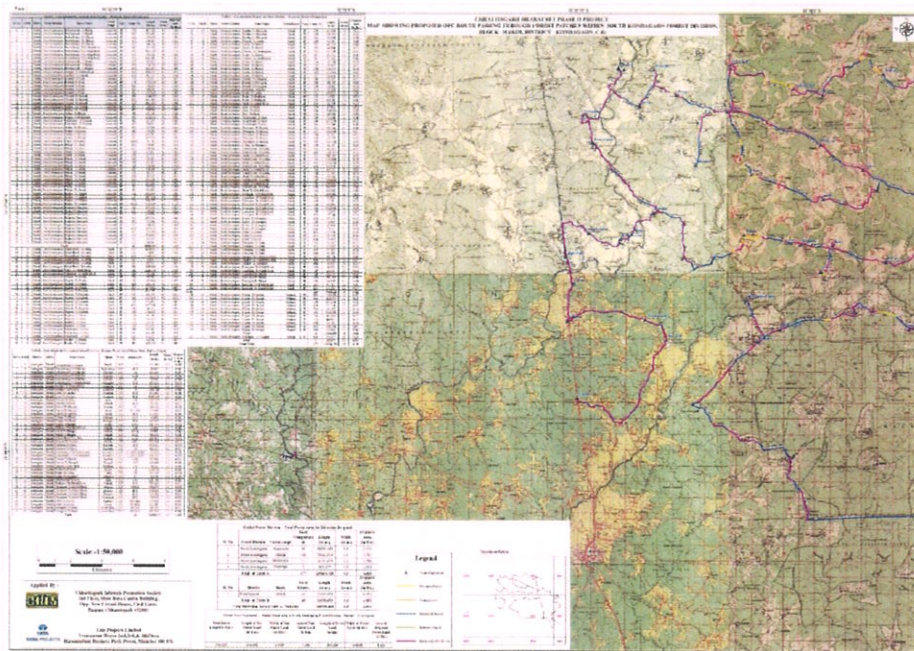
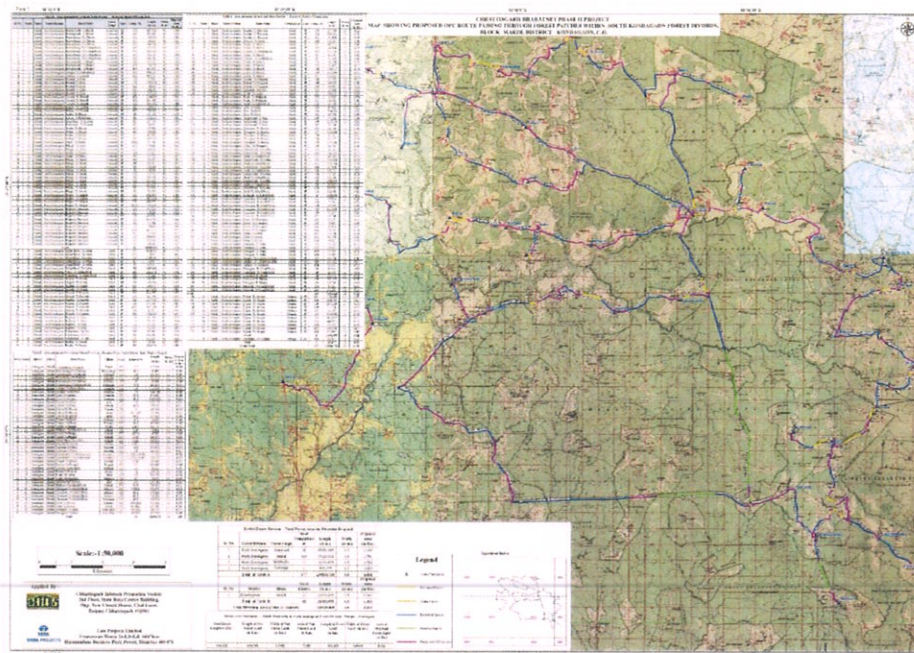
उप वनमण्डल अधिकारी
दुर्ग कोण्डागांव उपवनमण्डल
कोण्डागांव

उप वन मं. अ.
पश्चिम कोण्डागांव

Divisional Forest Officer
South Kondagaon Division
Kondagaon



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



Geo-Referenced Toposheet Map of Forest Patched South Kondagaon Forest Division.

5.4. Field Photographs



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