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क्रमांक/तक.अधि./2019 6790

बालोद, दिनांक 15/11/2019

प्रति,

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

विषय :- भारत सरकार की महत्वपूर्ण योजना "भारतनेट परियोजना" के सफल क्रियान्वयन हेतु प्रस्तावित मार्ग में शामिल वनभूमि का कक्ष क्रमांक की जानकारी उपलब्ध कराने का विषयक।

संदर्भ:- आपका पत्र क्र./भानेप्रो/ओएफसी/वनभूमि/2019-20/16 दिनांक 22.10.2019

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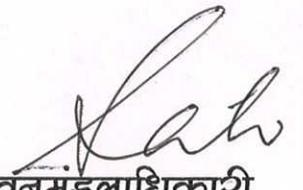
विषयातंगत लेख है कि , भारत सरकार की महत्वपूर्ण योजना "भारतनेट प्रोजेक्ट (A Part of Digital India)" के सफल क्रियान्वयन हेतु बालोद वनमंडल बालोद के अंतर्गत आने वाले परिक्षेत्र बालोद/दल्ली/डौंडी/लोहारा के वन कक्षों में ऑप्टिकल फायबर केबल लाईन बिछाने हेतु प्रस्तावित क्षेत्रों का वन कक्षों का संयुक्त स्थल निरीक्षण किया गया है, निरीक्षण उपरान्त डी.जी.पी.एस. सर्वे रिपोर्ट अनुमोदन पश्चात् आपकी ओर आवश्यक कार्यवाही हेतु प्रेषित।

विदित हो कि, प्रस्तावित क्षेत्र का डी.जी.पी.एस. सर्वे रिपोर्ट से प्राप्त गणना के अनुसार मांग की गई भूमि के पंजीयन हेतु अधोहस्ताक्षरी के नाम से पंजीयन शुल्क की राशि 6000/-रु. एवं प्रोसेसिंग शुल्क की राशि 18000/- रु. की पृथक-पृथक बैंक ड्राफ्ट तैयार कर इस कार्यालय को उपलब्ध कराते हुए वनसंरक्षण अधिनियम 1980 अन्तर्गत गैर वानिकी कार्य के लिए शासन द्वारा तैयार की गई डाटा बेस (Online Monitoring of Forest Clearances) के वेबसाईट <http://www.moef.gov.in> में नए यूजर आई डी.एंव पासवर्ड जनरेटर कर यूजर एजेंसी द्वारा भरे जाने वाले प्रपत्र को ऑनलाईन अपलोड करनी होगी। अपलोड पश्चात् प्रकरण में ऑनलाईन पंजीयन क्र. आंबटित हो जायेगी।

तत्पश्चात वन भूमि में गैर वानिकी कार्य किये जाने हेतु शासन द्वारा निर्धारित नवीनतम चेक लिस्ट की समस्त कण्डिकाओं की पूर्ण कर प्रस्ताव इस कार्यालय को उपलब्ध करानी होगी।

प्रतिवेदन सूचनार्थ प्रेषित।

संलग्न:- डी.जी.पी.एस./लीडर सर्वे रिपोर्ट का सत्यापित 02 प्रति मूलतः।


वनमंडलाधिकारी
बालोद वनमंडल बालोद

CHHATTISGARH BHARATNET PHASE-II PROJECT

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

Forest Division	:	BALOD
Forest Land (RF/PF/OA)	:	4.824 Ha.
Rev. Forest Land	:	0.251 Ha.
Total Proposed Diversion Area	:	5.075 Ha.
Block	:	DONDI AND DONDI LOHARA.
District	:	BALOD (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

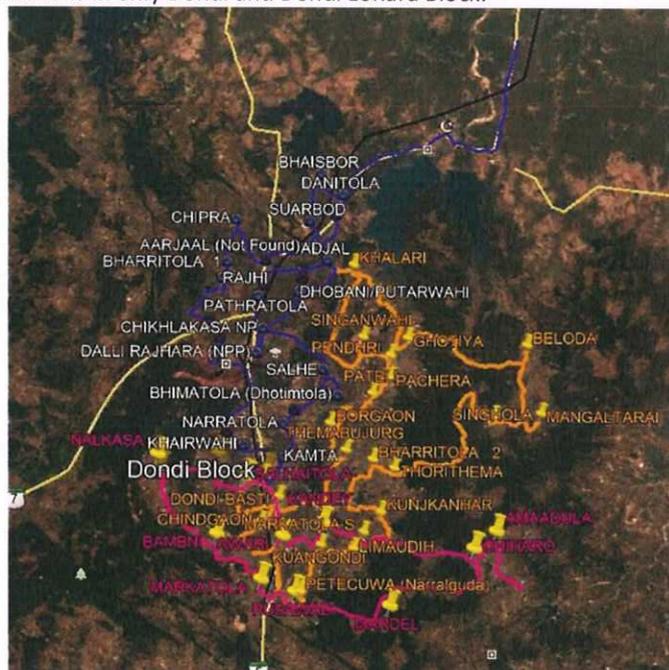
The Government of Chhattisgarh intends to setup an Optical Fibre Cable Network from the Block Head Quarters to Gram Panchayats to provide high speed broadband connectivity by connecting the 85 Blocks, 5987 Gram Panchayats across the State. The proposed network architecture for BharatNet Phase-II project 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 Dondi, Dondi Lohara and Gunderdehi block with in Balod Forest Division. Out Of these blocks forest area falls in only Dondi and Dondi Lohara Block.



OFC Cable Proposed Routes in Dondi Block in Balod Forest Division.

1.3. Location

The proposed OFC Cable route in Balod Forest Division (The OFC route Dondi, Dondi Lohara and Gunderdehi Block; District: Balod). The Proposed OFC route length is approx. 343.208 Km in Dondi Block, 486.920 km and Dondi Lohara Block hence Total route lengths is 830.128 km. The survey site passes through forest ranges Balod, Dalli, Dondi and Lohara of Balod Forest Division. The OFC Cable route is covered under Survey of India Toposheets 64 D13, 64 D14 and 64 H01,64 H02,64 H03,64 H05 and 64 H06 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 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

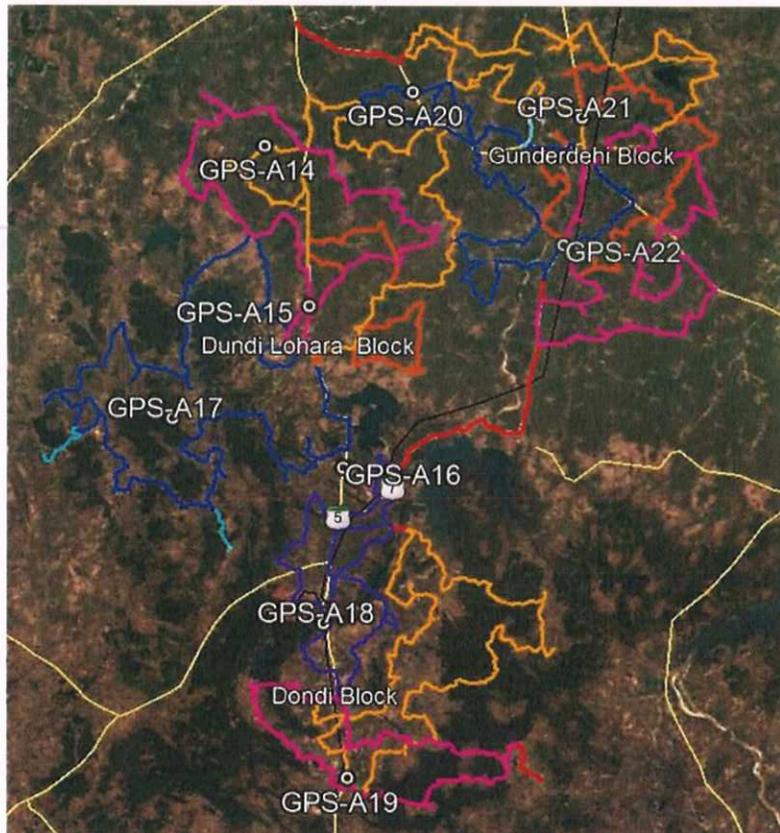
The deliverables envisaged for the assignment are described below -

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.



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- when it has to be right



GNSS Processing Report - Summary

Report created: 05/26/2019 14:47:24

Project Details

General		Customer Details		Master Coordinate System	
Project Name:	CHRS	Customer Name:	-	Coordinate System Name:	UTM48N
Owner:	GENESIS INTERNATIONAL CORPORATION LIMITED	Contact Person:	-	Transformation Type:	Classical 3D
Lead Surveyor:	-	Number:	-	Residual Distribution:	None
Date Created:	05/21/2019 14:22:05	Email:	-	Ellipsoid:	WGS 1984
Last Accessed:	05/21/2019 14:22:06	Skype:	-	Projection Type:	UTM
Application Software:	Infinity 3.9	Website:	-	Satoid Model:	EGM_2008
		CSCS Model:	-		
Path:	D:\INFINITY PROJECTS\CHRS\CHRS.gpx				
Size:	1,186.3 kb				
Coordinates:	-				

SPP Point: 9453Base_1

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

Date	Selected	Used	Comments
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Frequency:	Automatic	L1/L2/L3/2X/2S/3	
Sampling Rate:	Use A3	1 sec	
Satellite System:	GPS/GALONASS/BDS/G	GPS/GALONASS/BDS/G	
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 Model:	Automatic	Automatic	
Topographic Model:	VMF with GPT2 model	VMF with GPT2 model	
Ionospheric Model:	Automatic	ComputM	
Allow Wildcard Fix:	Automatic	No	
General Settings			
Min. Distance for Fix:	15 km		
Min. Ion. Age:			
Possible Ambiguities Fix Up to:	300 km		
Min. Distance for Fix:	00:00:01		
Solution (ITM):			

Results SPP Point: 9453Base_1

Acquisition

Time Span: 05/26/2019 04:43:28 - 05/26/2019 12:53:14
Duration: 08:09:46

Antenna

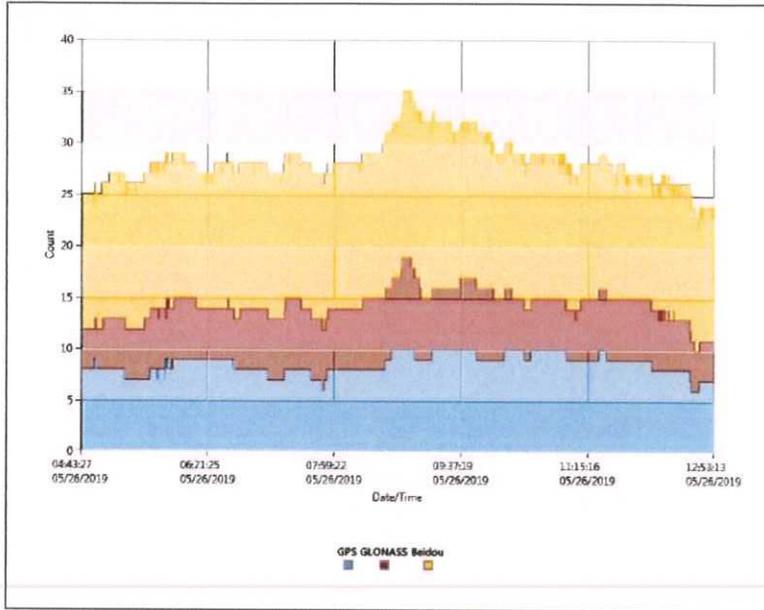
Receiver Name / SN: LEICA GS25 / 1001859
Antenna Name / SN: LEICA516 / -
Cable Offset: 0.000 m
Height Offset: 1.100 m
Antenna Height: 1.100 m

Chhattisgarh BharatNet Phase-II Project

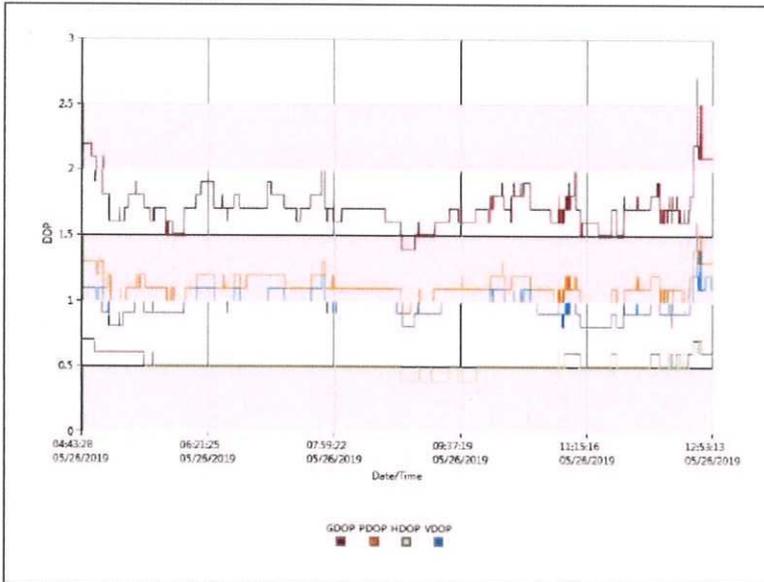
Processing Info (05/26/2019 04:43:28 - 05/26/2019 12:53:14)

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

SVs Tracked



DOP



List of GCP's –

Sr.No	District	GCP No.	Latitude (D:M:S)	Longitude(D:M:S)	Easting	Northing
1	Balod	GPS-A14	N20°57'06.81528"	E81°01'03.76571"	501841.449	2316823.636
2	Balod	GPS-A15	N20°49'13.50994"	E81°03'24.62012"	505914.239	2302274.216
3	Balod	GPS-A16	N20°41'16.64426"	E81°05'10.42811"	508980.281	2287615.973
4	Balod	GPS-A17	N20°43'40.41989"	E80°56'19.75613"	493630.302	2292034.650
5	Balod	GPS-A18	N20°33'38.60380"	E81°04'10.69912"	507258.426	2273534.475
6	Balod	GPS-A19	N20°26'05.26801"	E81°05'24.91841"	509414.967	2259599.685
7	Balod	GPS-A20	N20°59'48.66109"	E81°08'45.55853"	515172.740	2321805.979
8	Balod	GPS-A21	N20°58'34.34188"	E81°17'37.12167"	530523.101	2319542.304
9	Balod	GPS-A22	N20°52'16.78404"	E81°16'39.33752"	528874.727	2307932.283

4.2. Mobile LiDAR (DGPS) data collection:

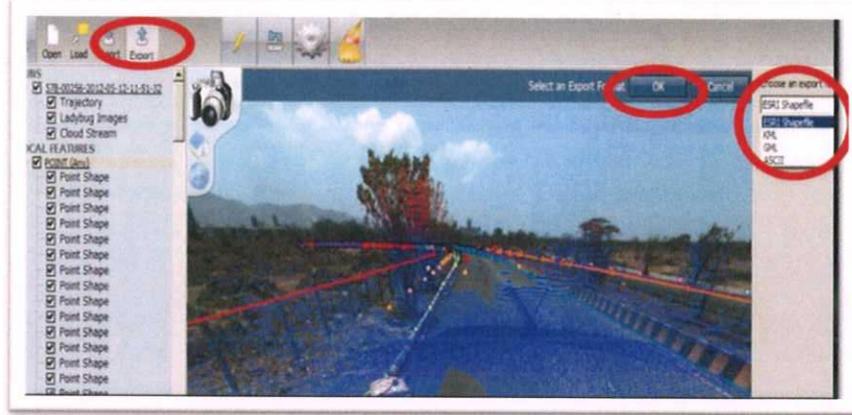
DGPS based Mobile LiDAR data was collected along with 360 degree panoramic view of the OFC route corridor (25 meter on each side along the center of the road).



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.



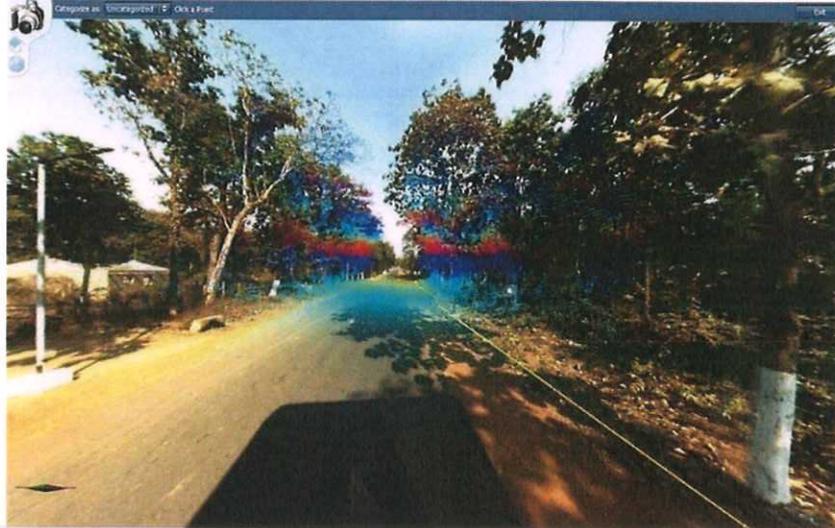
Feature Extraction on LiDAR



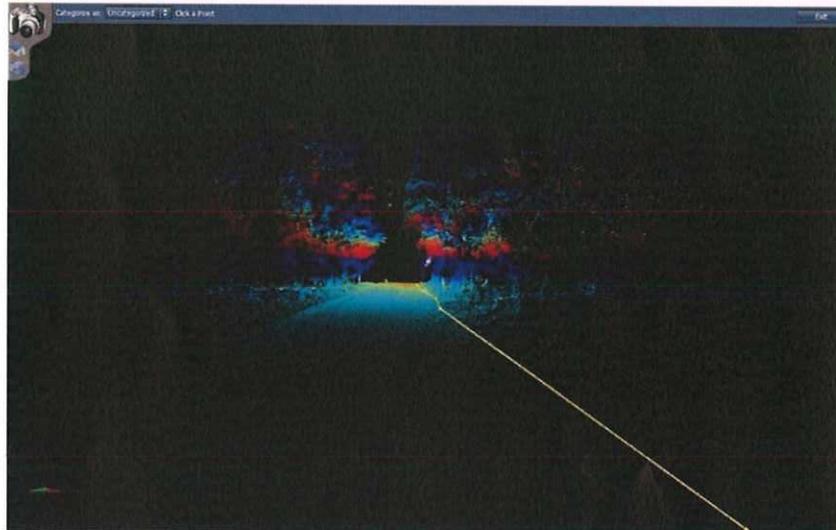
Final DRS / GIS Map

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.



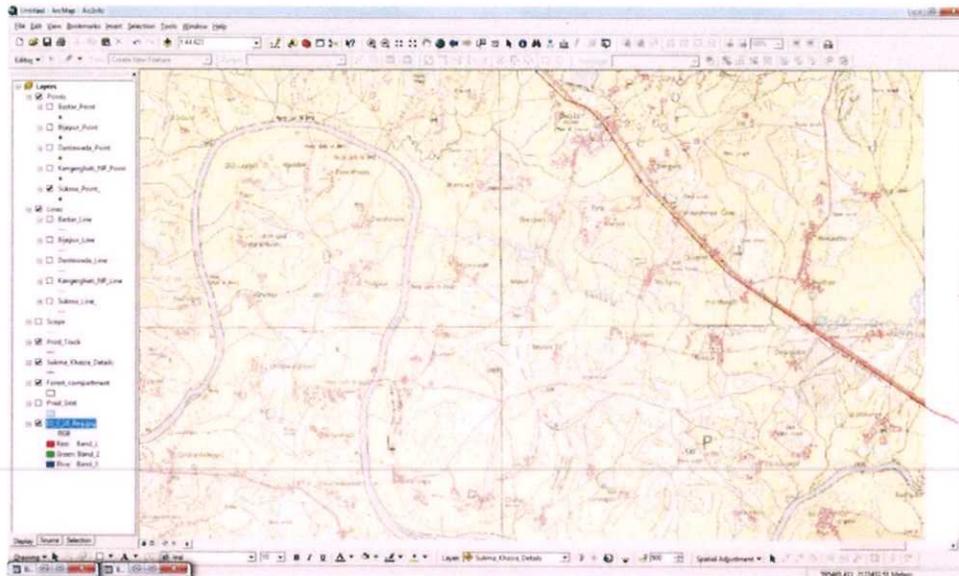
Proposed OFC Line on LiDAR Data (with Panoramic Imagery)



Proposed OFC Line on LiDAR Data only

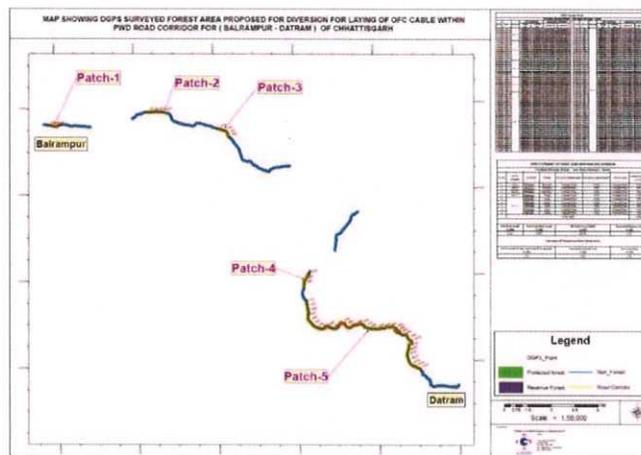
4.5. Geo-referencing of Maps:

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:

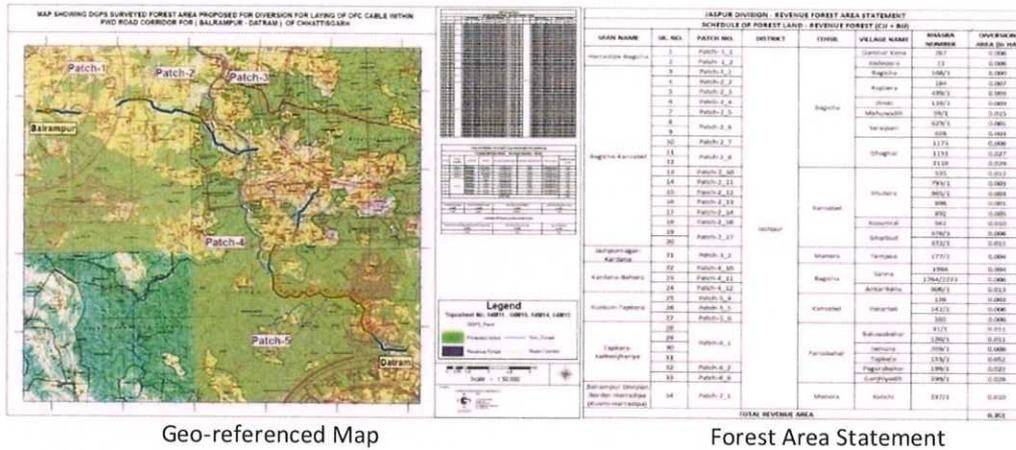
Different Layers such as Polygon of Reserved Forest /Protected Forest /Orange Area Patch, Centerline of Proposed OFC Trench, Non-Forest Trench line, Polygons showing Revenue Forest patches etc. are to be created using the Lidar based GPS Observation, Geo-referenced maps and the information provided by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



Chhattisgarh BharatNet Phase-II Project

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. 830.128 km. covered Dondi and Dondi Lohara Block of Balod District. Out of this 728.626 km OFC route length is passing through non-forest Land and 101.502 km OFC route length is passing through Forest Patches hence the proposed forest area for diversion 5.075 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 – Dondi and Dondi Lohara Block with in Balod Forest Division, District - Balod						
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.)
830.128	728.626	0.0005	36.431	101.502	0.0005	5.075

Balod 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	Balod	Balod	9	7968.153	0.5	0.399
2	Balod	Dalli	62	38626.004	0.5	1.931
3	Balod	Dondi	45	26589.723	0.5	1.329
4	Balod	Lohara	56	23300.240	0.5	1.165
Total of Table A			172	96484.120	0.5	4.824
Sl. No.	District	Block	No of Khasra	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
1	Balod	Dondi	26	2520.273	0.5	0.127
2	Balod	Dondi Lohara	24	2497.687	0.5	0.124
Total of Table B			50	5017.960	0.5	0.251
Total Diversion Area (Table A+TableB)				101502.080	0.5	5.075



वन परिक्षेत्र अधिकारी
वन परिक्षेत्र.....

Divisional Forest Officer
Balod Division, Balod

उप वनमण्डलाधिकारी
दल्ली राजहरा

उप वनमण्डलाधिकारी
बालोद

वन परिक्षेत्र अधिकारी
वन परिक्षेत्र.....
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वन परिक्षेत्र.....
वन परिक्षेत्र लोहारा

Chhattisgarh BharatNet Phase-II Project

Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
1	24	Dondi	Balod	Dondi To Gunder dehi	Balod	RF	92	879.470	0.5	0.044
2	24	Dondi	Balod	Dondi To Gunder dehi	Balod	RF	92	692.980	0.5	0.035
3	24	Dondi	Balod	Dondi To Gunder dehi	Balod	RF	96	1257.022	0.5	0.063
4	24	Dondi	Balod	Dondi To Gunder dehi	Balod	RF	96	1409.090	0.5	0.070
5	24	Dondi	Balod	Dondi To Gunder dehi	Balod	RF	99	540.911	0.5	0.027
6	24	Dondi	Balod	Dondi To Gunder dehi	Balod	RF	99	1785.689	0.5	0.089
7	24	Dondi	Balod	Dondi To Gunder dehi	Balod	PF	P257	1070.575	0.5	0.054
8	24	Dondi	Balod	Gujra To Danitola	Balod	PF	P257	312.580	0.5	0.016
9	24	Dondi	Balod	Gujra To Danitola	Balod	PF	P257	19.836	0.5	0.001
Totale-							9	7968.153	0.5	0.399
10	21	Dondi	Balod	Suarbod To Dhobedand	Dalli	RF	182	106.806	0.5	0.005
11	21	Dondi	Balod	Suarbod To Dhobedand	Dalli	RF	182	292.942	0.5	0.015
12	21	Dondi	Balod	Suarbod To Dhobedand	Dalli	RF	182	362.037	0.5	0.018
13	22	Dondi	Balod	Suarbod To Dhobedand	Dalli	PF	P296	467.929	0.5	0.023
14	22	Dondi	Balod	Suarbod To Dhobedand	Dalli	PF	P296	469.871	0.5	0.023
15	22	Dondi	Balod	Suarbod To Dhobedand	Dalli	PF	P297	144.362	0.5	0.007
16	25	Dondi	Balod	Pathratola To Gujra	Dalli	PF	P293	1377.065	0.5	0.069



Chhattisgarh BharatNet Phase-II Project

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

Sl. No.	Patch	Block	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
17	26	Dondi	Balod	Pathratola To Gujra	Dalli	PF	P294	243.443	0.5	0.012
18	26	Dondi	Balod	Pathratola To Gujra	Dalli	PF	P294	354.783	0.5	0.017
19	27	Dondi	Balod	Dhowni To Ghotiya	Dalli	RF	90	119.823	0.5	0.006
20	27	Dondi	Balod	Khalari To Dhobani	Dalli	PF	P255	445.727	0.5	0.022
21	27	Dondi	Balod	Dhobani/putarwahi To Adjal	Dalli	PF	P283	429.569	0.5	0.022
22	27	Dondi	Balod	Dhobani/putarwahi To Adjal	Dalli	PF	P283	1923.146	0.5	0.096
23	27	Dondi	Balod	Khalari To Dhobani	Dalli	PF	P283	160.251	0.5	0.008
24	28	Dondi	Balod	Ghotiya To Singhola	Dalli	RF	56	1298.092	0.5	0.065
25	28	Dondi	Balod	Ghotiya To Singhola	Dalli	RF	56	1313.225	0.5	0.066
26	28	Dondi	Balod	Ghotiya To Singhola	Dalli	RF	57	636.776	0.5	0.032
27	28	Dondi	Balod	Ghotiya To Singhola	Dalli	RF	57	623.261	0.5	0.031
28	28	Dondi	Balod	Ghotiya To Singhola	Dalli	RF	58	453.852	0.5	0.023
29	28	Dondi	Balod	Ghotiya To Singhola	Dalli	RF	77	323.649	0.5	0.016
30	28	Dondi	Balod	Ghotiya To Singhola	Dalli	RF	78	1077.325	0.5	0.054
31	28	Dondi	Balod	Ghotiya To Singhola	Dalli	RF	78	991.329	0.5	0.050
32	28	Dondi	Balod	Ghotiya To Singhola	Dalli	RF	79	958.672	0.5	0.048
33	28	Dondi	Balod	Ghotiya To Singhola	Dalli	RF	79	1626.352	0.5	0.081
34	28	Dondi	Balod	Ghotiya To Singhola	Dalli	RF	79	651.909	0.5	0.033



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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.)
35	29	Dondi	Balod	Ghotiya To Singhola	Dalli	RF	57	446.494	0.5	0.022
36	29	Dondi	Balod	Ghotiya To Singhola	Dalli	RF	58	218.038	0.5	0.011
37	29	Dondi	Balod	Ghotiya To Singhola	Dalli	RF	58	111.886	0.5	0.006
38	29	Dondi	Balod	Ghotiya To Singhola	Dalli	PF	P242	193.977	0.5	0.010
39	30	Dondi	Balod	Ghotiya To Singhola	Dalli	RF	54	1739.253	0.5	0.085
40	30	Dondi	Balod	Singhola To Thorithema	Dalli	RF	85	266.779	0.5	0.013
41	31	Dondi	Balod	Singhola To Thorithema	Dalli	RF	83	55.813	0.5	0.003
42	31	Dondi	Balod	Singhola To Thorithema	Dalli	RF	83	1112.774	0.5	0.056
43	31	Dondi	Balod	Singhola To Thorithema	Dalli	RF	85	499.394	0.5	0.025
44	31	Dondi	Balod	Singhola To Thorithema	Dalli	RF	85	998.726	0.5	0.050
45	31	Dondi	Balod	Singhola To Thorithema	Dalli	RF	86	951.275	0.5	0.048
46	31	Dondi	Balod	Singhola To Thorithema	Dalli	RF	86	1950.000	0.5	0.098
47	31	Dondi	Balod	Singhola To Thorithema	Dalli	RF	86	679.054	0.5	0.034
48	31	Dondi	Balod	Singhola To Thorithema	Dalli	RF	118	193.593	0.5	0.010
49	45	Dondi	Balod	Bambni To Kotagaon	Dalli	RF	151	1188.277	0.5	0.059
50	45	Dondi	Balod	Bambni To Kotagaon	Dalli	RF	151	1375.693	0.5	0.069
51	46	Dondi	Balod	Dhobedand To Adeyjar	Dalli	RF	146	98.850	0.5	0.005
52	46	Dondi	Balod	Dhobedand To Adeyjar	Dalli	RF	147	23.388	0.5	0.001



Chhattisgarh BharatNet Phase-II Project

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

Sl. No.	Patch	Block	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
53	46	Dondi	Balod	Dhobedand To Adeyjhhar	Dalli	RF	147	1271.308	0.5	0.064
54	47	Dondi	Balod	Dhobedand To Adeyjhhar	Dalli	RF	144	657.751	0.5	0.033
55	47	Dondi	Balod	Dhobedand To Adeyjhhar	Dalli	RF	144	1064.951	0.5	0.053
56	48	Dondi	Balod	Pendhri To Tekathora	Dalli	RF	88	72.702	0.5	0.004
57	48	Dondi	Balod	Tekathora To Khalaria	Dalli	RF	88	223.395	0.5	0.011
58	48	Dondi	Balod	Bhimatola To Dhobani	Dalli	RF	142	10.145	0.5	0.001
59	48	Dondi	Balod	Bhimatola To Dhobani	Dalli	RF	142	136.362	0.5	0.007
60	48	Dondi	Balod	Bhimatola To Dhobani	Dalli	RF	142	130.649	0.5	0.007
61	48	Dondi	Balod	Chikhli To Pathratola	Dalli	RF	142	52.975	0.5	0.003
62	48	Dondi	Balod	Chikhli To Pathratola	Dalli	RF	142	220.308	0.5	0.011
63	48	Dondi	Balod	Chikhli To Pathratola	Dalli	RF	142	228.948	0.5	0.011
64	48	Dondi	Balod	Chikhli To Pathratola	Dalli	RF	142	1074.393	0.5	0.054
65	48	Dondi	Balod	Chikhli To Pathratola	Dalli	RF	142	1506.042	0.5	0.075
66	48	Dondi	Balod	Chikhli To Pathratola	Dalli	RF	142	1127.817	0.5	0.056
67	48	Dondi	Balod	Chikhli To Pathratola	Dalli	PF	P285	443.959	0.5	0.022
68	48	Dondi	Balod	Pendhri To Tekathora	Dalli	PF	P285	246.628	0.5	0.012
69	49	Dondi	Balod	Pendhri To Tekathora	Dalli	RF	87	529.452	0.5	0.026
70	49	Dondi	Balod	Pateli To Pendhri	Dalli	PF	P264	560.793	0.5	0.028



Chhattisgarh BharatNet Phase-II Project

Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
71	49	Dondi	Balod	Pendhri To Tekathora	Dalli	PF	P264	111.966	0.5	0.006
Totalo-										
72	32	Dondi	Balod	Singhola To Thorithema	Dondi	RF	110	496.043	0.5	0.025
73	32	Dondi	Balod	Singhola To Thorithema	Dondi	RF	110	624.490	0.5	0.031
74	32	Dondi	Balod	Singhola To Thorithema	Dondi	RF	122	1325.511	0.5	0.066
75	32	Dondi	Balod	Singhola To Thorithema	Dondi	RF	122	1074.684	0.5	0.054
76	32	Dondi	Balod	Singhola To Thorithema	Dondi	PF	P267	608.411	0.5	0.030
77	33	Dondi	Balod	Thorithema To Kaungondi	Dondi	RF	124	205.098	0.5	0.010
78	33	Dondi	Balod	Thorithema To Kaungondi	Dondi	PF	P278	239.751	0.5	0.012
79	33	Dondi	Balod	Thorithema To Kaungondi	Dondi	PF	P278	321.298	0.5	0.016
80	34	Dondi	Balod	Kandey To Chiharo	Dondi	RF	124	419.506	0.5	0.021
81	34	Dondi	Balod	Kandey To Chiharo	Dondi	RF	124	1149.776	0.5	0.057
82	35	Dondi	Balod	Amaadula To Chiharochiharo	Dondi	RF	104	387.444	0.5	0.019
83	35	Dondi	Balod	Amaadula To Chiharochiharo	Dondi	RF	104	392.462	0.5	0.020
84	35	Dondi	Balod	Amaadula To Chiharochiharo	Dondi	RF	105	83.618	0.5	0.004
85	35	Dondi	Balod	Amaadula To Chiharochiharo	Dondi	RF	105	86.881	0.5	0.004
86	35	Dondi	Balod	Amaadula To Chiharochiharo	Dondi	PF	P263	368.571	0.5	0.018
87	35	Dondi	Balod	Amaadula To Chiharochiharo	Dondi	PF	P263	260.398	0.5	0.013



Chhattisgarh BharatNet Phase-II Project

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

Sl. No.	Patch	Block	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
88	35	Dondi	Balod	Amaadula To Chiharochiharo	Dondi	PF	P263	115.582	0.5	0.006
89	36	Dondi	Balod	Chiharo To Pusawad	Dondi	RF	126	731.076	0.5	0.037
90	36	Dondi	Balod	Chiharo To Pusawad	Dondi	RF	127	801.265	0.5	0.040
91	36	Dondi	Balod	Chiharo To Pusawad	Dondi	RF	127	773.045	0.5	0.039
92	37	Dondi	Balod	Chiharo To Pusawad	Dondi	RF	125	1226.948	0.5	0.061
93	38	Dondi	Balod	Chiharo To Pusawad	Dondi	RF	131	691.655	0.5	0.035
94	38	Dondi	Balod	Chiharo To Pusawad	Dondi	RF	137	296.233	0.5	0.015
95	38	Dondi	Balod	Chiharo To Pusawad	Dondi	RF	138	2441.219	0.5	0.122
96	38	Dondi	Balod	Chiharo To Pusawad	Dondi	RF	139	149.738	0.5	0.007
97	38	Dondi	Balod	Chiharo To Pusawad	Dondi	RF	139	523.831	0.5	0.026
98	38	Dondi	Balod	Mardel To Pusawad	Dondi	PF	P274	807.079	0.5	0.040
99	38	Dondi	Balod	Mardel To Pusawad	Dondi	PF	P274	818.772	0.5	0.041
100	40	Dondi	Balod	Chiharo To Pusawad	Dondi	RF	134	985.790	0.5	0.049
101	40	Dondi	Balod	Kaungondi To Gudum	Dondi	RF	134	356.752	0.5	0.018
102	40	Dondi	Balod	Chiharo To Pusawad	Dondi	RF	135	1542.631	0.5	0.077
103	40	Dondi	Balod	Chiharo To Pusawad	Dondi	RF	135	338.994	0.5	0.017
104	40	Dondi	Balod	Chiharo To Pusawad	Dondi	RF	136	633.931	0.5	0.032
105	40	Dondi	Balod	Chiharo To Pusawad	Dondi	RF	136	407.370	0.5	0.021



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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.)
106	40	Dondi	Balod	Thorithema To Kaungondi	Dondi	PF	P276	155.476	0.5	0.008
107	41	Dondi	Balod	Pusawad To Bambni	Dondi	RF	P155	967.835	0.5	0.048
108	42	Dondi	Balod	Pusawad To Bambni	Dondi	RF	P157	657.688	0.5	0.033
109	43	Dondi	Balod	Bambni To Kotagaon	Dondi	RF	P157	160.728	0.5	0.008
110	43	Dondi	Balod	Bambni To Kotagaon	Dondi	RF	P157	532.058	0.5	0.027
111	44	Dondi	Balod	Bambni To Kotagaon	Dondi	RF	152	755.754	0.5	0.038
112	50	Dondi	Balod	Dondi basti To Pateli	Dondi	PF	P281	935.611	0.5	0.047
113	50	Dondi	Balod	Dondi basti To Pateli	Dondi	PF	P281	99.310	0.5	0.005
114	51	Dondi	Balod	Dondi basti To Pateli	Dondi	RF	141	305.262	0.5	0.015
115	51	Dondi	Balod	Dondi basti To Pateli	Dondi	RF	141	177.749	0.5	0.009
116	51	Dondi	Balod	Dondi basti To Pateli	Dondi	PF	P279	156.399	0.5	0.008
Totale-								26589.723	0.5	1.329
117	2	Dondi Lohara	Balod	Dundi lohara To Kotera	Lohara	RF	200	268.603	0.5	0.013
118	2	Dondi Lohara	Balod	Dundi lohara To Kotera	Lohara	RF	200	269.265	0.5	0.013
119	3	Dondi Lohara	Balod	Dundi lohara To Kotera	Lohara	RF	195	49.245	0.5	0.002
120	3	Dondi Lohara	Balod	Dundi lohara To Kotera	Lohara	RF	195	618.561	0.5	0.031
121	3	Dondi Lohara	Balod	Dundi lohara To Kotera	Lohara	RF	200	95.881	0.5	0.005
122	3	Dondi Lohara	Balod	Dundi lohara To Kotera	Lohara	RF	200	114.213	0.5	0.006



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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.)
123	3	Dondi Lohara	Balod	Dundi lohara To Kotera	Lohara	RF	200	118.168	0.5	0.006
124	3	Dondi Lohara	Balod	Dundi lohara To Kotera	Lohara	RF	200	670.937	0.5	0.034
125	3	Dondi Lohara	Balod	Dundi lohara To Kotera	Lohara	RF	200	814.886	0.5	0.041
126	4	Dondi Lohara	Balod	Gainji To Jatadah	Lohara	RF	172	39.487	0.5	0.002
127	4	Dondi Lohara	Balod	Gainji To Jatadah	Lohara	RF	172	346.765	0.5	0.017
128	4	Dondi Lohara	Balod	Gainji To Jatadah	Lohara	RF	176	221.932	0.5	0.011
129	5	Dondi Lohara	Balod	Jharantola To Gainji	Lohara	RF	177	261.795	0.5	0.013
130	5	Dondi Lohara	Balod	Jharantola To Gainji	Lohara	RF	177	1238.904	0.5	0.062
131	6	Dondi Lohara	Balod	Jharantola To Gainji	Lohara	RF	179	84.817	0.5	0.004
132	6	Dondi Lohara	Balod	Jharantola To Gainji	Lohara	RF	179	644.850	0.5	0.032
133	6	Dondi Lohara	Balod	Kholjhar To Jharantola	Lohara	RF	179	53.394	0.5	0.003
134	7	Dondi Lohara	Balod	Kholjhar To Jharantola	Lohara	RF	179	215.397	0.5	0.011
135	7	Dondi Lohara	Balod	Kholjhar To Jharantola	Lohara	RF	189	92.489	0.5	0.005
136	7	Dondi Lohara	Balod	Kholjhar To Jharantola	Lohara	RF	189	741.249	0.5	0.037
137	8	Dondi Lohara	Balod	Kholjhar To Jharantola	Lohara	RF	179	208.207	0.5	0.010
138	8	Dondi Lohara	Balod	Kholjhar To Jharantola	Lohara	PF	P308	1072.174	0.5	0.054
139	9	Dondi Lohara	Balod	Bhanwarmara To Kholjhar	Lohara	RF	191	137.543	0.5	0.007
140	9	Dondi Lohara	Balod	Bhanwarmara To Kholjhar	Lohara	RF	191	944.667	0.5	0.047



Chhattisgarh BharatNet Phase-II Project

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

Sl. No.	Patch	Block	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
141	9	Dondi Lohara	Balod	Bhanwarmara To Kholijhar	Lohara	RF	191	1949.383	0.5	0.096
142	10	Dondi Lohara	Balod	Bhanwarmara To Kholijhar	Lohara	PF	P307	424.232	0.5	0.021
143	11	Dondi Lohara	Balod	Badajungera To Bhanwarmara	Lohara	RF	210	27.814	0.5	0.001
144	11	Dondi Lohara	Balod	Badajungera To Bhanwarmara	Lohara	RF	210	384.439	0.5	0.019
145	11	Dondi Lohara	Balod	Badajungera To Bhanwarmara	Lohara	RF	210	660.589	0.5	0.033
146	11	Dondi Lohara	Balod	Dundi lohara To Kotera	Lohara	RF	210	230.440	0.5	0.012
147	11	Dondi Lohara	Balod	Dundi lohara To Kotera	Lohara	RF	210	233.005	0.5	0.012
148	12	Dondi Lohara	Balod	Rengadabri To Bhimatola	Lohara	PF	P311	210.783	0.5	0.011
149	12	Dondi Lohara	Balod	Khairkatta To Rengadabri	Lohara	PF	P312	359.441	0.5	0.018
150	13	Dondi Lohara	Balod	Bhimatola To Junnapani	Lohara	PF	P313	140.059	0.5	0.007
151	13	Dondi Lohara	Balod	Bhimatola To Junnapani	Lohara	PF	P313	555.873	0.5	0.028
152	14	Dondi Lohara	Balod	Junnapani To Mangchuwa	Lohara	PF	P 334	9.946	0.5	0.001
153	14	Dondi Lohara	Balod	Junnapani To Mangchuwa	Lohara	PF	P 334	96.738	0.5	0.005
154	14	Dondi Lohara	Balod	Junnapani To Mangchuwa	Lohara	PF	P 334	267.464	0.5	0.013
155	14	Dondi Lohara	Balod	Junnapani To Mangchuwa	Lohara	PF	P 334	699.408	0.5	0.035
156	14	Dondi Lohara	Balod	Junnapani To Mangchuwa	Lohara	PF	P 334	704.397	0.5	0.035
157	14	Dondi Lohara	Balod	Junnapani To Mangchuwa	Lohara	PF	P 334	797.633	0.5	0.040
158	14	Dondi Lohara	Balod	Junnapani To Mangchuwa	Lohara	PF	P314	245.143	0.5	0.012

Chhattisgarh BharatNet Phase-II Project

Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
159	15	Dondi Lohara	Balod	Kartutola To Karregaon	Lohara	PF	P 332	633.152	0.5	0.032
160	16	Dondi Lohara	Balod	Mangchuwa To Kamkapar	Lohara	RF	214	432.083	0.5	0.022
161	16	Dondi Lohara	Balod	Mangchuwa To Kamkapar	Lohara	PF	P 329	369.986	0.5	0.018
162	17	Dondi Lohara	Balod	Kamkapar To Badajungera	Lohara	RF	186	183.736	0.5	0.009
163	17	Dondi Lohara	Balod	Kamkapar To Badajungera	Lohara	RF	186	323.645	0.5	0.016
164	17	Dondi Lohara	Balod	Kamkapar To Badajungera	Lohara	PF	P 301	119.446	0.5	0.006
165	18	Dondi Lohara	Balod	Kamkapar To Badajungera	Lohara	PF	P305	118.816	0.5	0.006
166	18	Dondi Lohara	Balod	Kamkapar To Badajungera	Lohara	PF	P305	514.888	0.5	0.026
167	18	Dondi Lohara	Balod	Kamkapar To Badajungera	Lohara	PF	P305	692.281	0.5	0.035
168	19	Dondi Lohara	Balod	Kamkapar To Badajungera	Lohara	PF	P303	96.430	0.5	0.005
169	19	Dondi Lohara	Balod	Kamkapar To Badajungera	Lohara	PF	P303	725.466	0.5	0.036
170	20	Dondi Lohara	Balod	Kodekasa To Piperkharkh	Lohara	PF	295	55.427	0.5	0.003
171	20	Dondi Lohara	Balod	Kodekasa To Piperkharkh	Lohara	PF	P 299	1181.278	0.5	0.059
172	20	Dondi Lohara	Balod	Kodekasa To Piperkharkh	Lohara	PF	P298	533.390	0.5	0.027
Totalo-							56	23300.240	0.5	1.165
Grand Total-							172	96484.120	0.5	4.824



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Table B - Area statement for proposed forest Patches – Revenue Forest land (Chhote / Bade Jhad ka Jangal)										
Sl No.	Patch	District	Block	Route Name	Village	Type	Khasra No	Length (In m.)	Width (in m.)	Proposed Area (In Ha.)
1	13	Balod	Dondi	Bambni To Kotagaon	Bamhani	BJJ	63	134.357	0.5	0.007
2	13	Balod	Dondi	Bambni To Kotagaon	Bamhani	BJJ	66	79.649	0.5	0.004
3	23	Balod	Dondi	Suarbod To Dhobedand	Jamani	BJJ	21	35.715	0.5	0.002
4	23	Balod	Dondi	Suarbod To Dhobedand	Jamani	BJJ	63	20.155	0.5	0.001
5	23	Balod	Dondi	Suarbod To Dhobedand	Jamani	BJJ	64/1	237.284	0.5	0.012
6	27	Balod	Dondi	Khalari To Adjal	Khalari	BJJ	1	140.008	0.5	0.007
7	27	Balod	Dondi	Khalari To Adjal	Khalari	BJJ	294	53.517	0.5	0.003
8	29	Balod	Dondi	Ghotiya To Singhola	Baloda	BJJ	574	64.549	0.5	0.003
9	32	Balod	Dondi	Singhola To Thorithema	Dhorritema	BJJ	583	187.873	0.5	0.010
10	35	Balod	Dondi	Amaadula To Chiharo Chiharo	Amadula	BJJ	8	189.670	0.5	0.010
11	35	Balod	Dondi	Kandey To Chiharo	Chiharo	BJJ	424	101.890	0.5	0.005
12	35	Balod	Dondi	Amaadula To Chiharo Chiharo	Chiharo	BJJ	480	206.294	0.5	0.010
13	38	Balod	Dondi	Chiharo To Pusawad	Mardel	BJJ	188	16.379	0.5	0.001
14	40	Balod	Dondi	Awari To Kandey	Kuwagondi	BJJ	61	14.736	0.5	0.001
15	40	Balod	Dondi	Awari To Kandey	Kuwagondi	BJJ	221	24.746	0.5	0.001
16	40	Balod	Dondi	Kaungondi To Gudum	Kuwagondi	BJJ	561	93.484	0.5	0.005
17	40	Balod	Dondi	Kaungondi To Gudum	Kuwagondi	BJJ	678	54.801	0.5	0.003
18	40	Balod	Dondi	Kaungondi To Gudum	Kuwagondi	BJJ	679	100.015	0.5	0.005
19	40	Balod	Dondi	Thorithema To Kaungondi	Kuwagondi	BJJ	766	43.460	0.5	0.002



Table B - Area statement for proposed forest Patches – Revenue Forest land (Chhote / Bade Jhad ka Jangal)										
Sl No.	Patch	District	Block	Route Name	Village	Type	Khasra No	Length (In m.)	Width (in m.)	Proposed Area (In Ha.)
20	40	Balod	Dondi	Thorithema To Kaungondi	Kuwagondi	BJJ	767	13.738	0.5	0.001
21	40	Balod	Dondi	Thorithema To Kaungondi	Kuwagondi	BJJ	773	106.263	0.5	0.005
22	45	Balod	Dondi	Nalkasa To Tapping	Nalkalan	BJJ	241	84.049	0.5	0.004
23	45	Balod	Dondi	Nalkasa To Tapping	Nalkalan	BJJ	258	46.684	0.5	0.002
24	45	Balod	Dondi	Nalkasa To Kotagaon	Nalkalan	BJJ	263	168.253	0.5	0.008
25	45	Balod	Dondi	Nalkasa To Kotagaon	Nalkalan	BJJ	267	246.526	0.5	0.012
26	45	Balod	Dondi	Bambni To Kotagaon	Nalkalan	BJJ	290	56.178	0.5	0.003
Total-							26	2520.273	0.5	0.127
27	1	Balod	Dondi Luhara	Auonri To Ranitarai	Gandhari	CJJ	140	21.349	0.5	0.001
28	1	Balod	Dondi Luhara	Auonri To Ranitarai	Gandhari	CJJ	143	381.343	0.5	0.019
29	8	Balod	Dondi Luhara	Kholjhar To Jharantola	Bhimdo	CJJ	106	137.280	0.5	0.007
30	8	Balod	Dondi Luhara	Kholjhar To Jharantola	Bhimdo	BJJ	277	44.834	0.5	0.002
31	9	Balod	Dondi Luhara	Bhanwarmara To Kholjhar	Nalpani	BJJ	71	79.408	0.5	0.004
32	11	Balod	Dondi Luhara	Badajungera To Bhanwarmara	Tumdikasa	BJJ	83	63.815	0.5	0.003
33	11	Balod	Dondi Luhara	Badajungera To Bhanwarmara	Tumdikasa	BJJ	394	15.486	0.5	0.001
34	12	Balod	Dondi Luhara	Khairkatta To Rengadabri	Rengadabri	BJJ	1108	100.505	0.5	0.005
35	12	Balod	Dondi Luhara	Khairkatta To Rengadabri	Rengadabri	BJJ	1216	25.229	0.5	0.001
36	12	Balod	Dondi Luhara	Khairkatta To Rengadabri	Rengadabri	BJJ	1225	146.209	0.5	0.007
37	13	Balod	Dondi Luhara	Junnapani To Mangchuwa	Junnapani	BJJ	376	159.032	0.5	0.008

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Table B - Area statement for proposed forest patches – Revenue Forest land (Chhote / Bade Jhad ka Jangal)										
Sl No.	Patch	District	Block	Route Name	Village	Type	Khasra No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
38	14	Balod	Dondi Luhara	Dallikudari To Junnapani	Dalli	BJJ	621	30.601	0.5	0.002
39	14	Balod	Dondi Luhara	Dallikudari To Junnapani	Dalli	BJJ	622	202.988	0.5	0.010
40	16	Balod	Dondi Luhara	Mangchuwa To Kamkapar	Tekapar	CJJ	249	68.453	0.5	0.003
41	16	Balod	Dondi Luhara	Mangchuwa To Kamkapar	Tekapar	CJJ	261	23.114	0.5	0.001
42	16	Balod	Dondi Luhara	Mangchuwa To Kamkapar	Tekapar	BJJ	262	45.505	0.5	0.002
43	16	Balod	Dondi Luhara	Mangchuwa To Kamkapar	Tekapar	BJJ	275	122.568	0.5	0.006
44	16	Balod	Dondi Luhara	Mangchuwa To Kamkapar	Mundori	CJJ	342	44.796	0.5	0.002
45	16	Balod	Dondi Luhara	Mangchuwa To Kamkapar	Mundori	CJJ	596	13.992	0.5	0.001
46	16	Balod	Dondi Luhara	Mangchuwa To Kamkapar	Mundori	CJJ	598	12.641	0.5	0.001
47	17	Balod	Dondi Luhara	Kamkapar To Badajungera	Mudpar	BJJ	199	16.761	0.5	0.001
48	17	Balod	Dondi Luhara	Kamkapar To Badajungera	Mudpar	BJJ	214	233.139	0.5	0.012
49	17	Balod	Dondi Luhara	Kamkapar To Badajungera	Mudpar	BJJ	261	129.809	0.5	0.006
50	17	Balod	Dondi Luhara	Kamkapar To Badajungera	Mudpar	BJJ	291	378.830	0.5	0.019
Total-							24	2497.687	0.5	0.124
Grand Total-							50	5017.960	0.5	0.251



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°04'44.07797"	20°57'47.60020"	P-51	5	81°04'55.46483"	20°42'06.51666"
P-2	1	81°04'44.20454"	20°57'46.91604"	P-52	5	81°05'01.63164"	20°42'09.39528"
P-3	1	81°04'46.52761"	20°57'39.93220"	P-53	5	81°05'06.32232"	20°42'05.62879"
P-4	1	81°04'44.60248"	20°57'45.12177"	P-54	5	81°05'07.33549"	20°42'04.81189"
P-5	1	81°04'46.52761"	20°57'39.93220"	P-55	6	81°03'27.35878"	20°41'19.97130"
P-6	2	81°02'03.68461"	20°47'24.49459"	P-56	6	81°03'28.28706"	20°41'21.00921"
P-7	2	81°02'08.30580"	20°47'29.29937"	P-57	6	81°03'28.28706"	20°41'21.00921"
P-8	2	81°02'09.76301"	20°47'31.06697"	P-58	6	81°03'33.65558"	20°41'18.63352"
P-9	2	81°02'09.74941"	20°47'31.09428"	P-59	6	81°03'39.40556"	20°41'18.70310"
P-10	2	81°02'05.09644"	20°47'26.31993"	P-60	6	81°03'38.15643"	20°41'25.05338"
P-11	2	81°02'03.68425"	20°47'24.53962"	P-61	6	81°03'37.91818"	20°41'26.49250"
P-12	3	81°00'53.23656"	20°46'27.19656"	P-62	6	81°03'37.91818"	20°41'26.49250"
P-13	3	81°00'52.91982"	20°46'28.76346"	P-63	6	81°03'38.38624"	20°41'29.20187"
P-14	3	81°00'52.91982"	20°46'28.76346"	P-64	7	81°01'29.76150"	20°41'54.08673"
P-15	3	81°00'49.05955"	20°46'33.03099"	P-65	7	81°01'31.37359"	20°41'51.48929"
P-16	3	81°00'47.10775"	20°46'36.05933"	P-66	7	81°01'40.41803"	20°41'40.42613"
P-17	3	81°00'50.58021"	20°46'41.51437"	P-67	7	81°01'45.39757"	20°41'35.91391"
P-18	3	81°00'50.72571"	20°46'42.10226"	P-68	7	81°01'45.77581"	20°41'35.56156"
P-19	3	81°00'55.17914"	20°46'59.55070"	P-69	7	81°01'31.37359"	20°41'51.48929"
P-20	3	81°00'55.46113"	20°47'02.64628"	P-70	7	81°01'34.77012"	20°41'45.84085"
P-21	3	81°00'55.46113"	20°47'02.64628"	P-71	7	81°01'39.58960"	20°41'41.18185"
P-22	3	81°01'01.88650"	20°47'03.78696"	P-72	7	81°01'48.67360"	20°41'30.97534"
P-23	3	81°01'07.32564"	20°47'07.57182"	P-73	7	81°01'49.94673"	20°41'26.54163"
P-24	3	81°01'13.59957"	20°47'10.27276"	P-74	8	81°01'01.17357"	20°43'32.62812"
P-25	3	81°01'15.78928"	20°47'11.31384"	P-75	8	81°01'03.92466"	20°43'26.69176"



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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-26	3	81°01'15.78928"	20°47'11.31384"	P-76	8	81°01'07.13531"	20°43'20.94391"
P-27	3	81°01'22.15741"	20°47'13.82193"	P-77	8	81°01'10.93737"	20°43'15.51177"
P-28	3	81°01'26.09213"	20°47'08.73236"	P-78	8	81°01'14.54731"	20°43'09.96794"
P-29	3	81°01'30.74326"	20°47'03.91753"	P-79	8	81°01'17.43692"	20°43'04.05961"
P-30	3	81°01'36.20076"	20°47'01.36084"	P-80	8	81°01'18.34601"	20°43'01.87410"
P-31	3	81°01'36.70363"	20°47'01.46486"	P-81	8	81°01'19.87307"	20°42'39.88517"
P-32	3	81°00'51.87213"	20°47'03.94227"	P-82	8	81°01'17.46312"	20°42'34.27150"
P-33	3	81°00'55.46113"	20°47'02.64628"	P-83	8	81°01'17.40596"	20°42'34.01009"
P-34	3	81°00'55.46113"	20°47'02.64628"	P-84	8	81°01'18.34600"	20°43'01.87410"
P-35	3	81°00'51.66493"	20°47'03.65178"	P-85	8	81°01'21.21401"	20°42'58.35636"
P-36	4	81°04'11.13761"	20°44'16.04917"	P-86	8	81°01'22.74182"	20°42'55.17135"
P-37	4	81°04'06.97684"	20°43'56.33704"	P-87	8	81°01'22.97509"	20°42'53.73047"
P-38	4	81°04'07.04831"	20°44'00.76365"	P-88	9	80°58'57.66065"	20°43'47.49872"
P-39	4	81°04'13.93812"	20°43'51.00134"	P-89	9	80°59'01.00967"	20°43'50.67162"
P-40	4	81°04'08.47628"	20°43'54.96314"	P-90	9	80°59'01.00967"	20°43'50.67162"
P-41	4	81°04'07.89256"	20°43'55.41818"	P-91	9	80°59'07.42737"	20°43'52.39291"
P-42	4	81°04'11.10583"	20°44'22.15082"	P-92	9	80°59'14.34219"	20°43'52.46749"
P-43	4	81°04'11.48937"	20°44'23.38251"	P-93	9	80°59'20.95868"	20°43'51.21888"
P-44	5	81°04'24.23245"	20°41'50.28815"	P-94	9	80°59'27.33210"	20°43'49.26363"
P-45	5	81°04'30.39457"	20°41'53.08937"	P-95	9	80°59'33.71763"	20°43'47.20300"
P-46	5	81°04'32.17186"	20°41'54.20463"	P-96	9	80°59'40.37009"	20°43'45.67762"
P-47	5	81°04'32.17186"	20°41'54.20463"	P-97	9	80°59'46.76627"	20°43'43.70465"
P-48	5	81°04'38.55040"	20°41'56.68018"	P-98	9	80°59'53.44984"	20°43'44.41618"
P-49	5	81°04'45.08979"	20°41'58.77569"	P-99	9	81°00'00.23919"	20°43'44.30709"
P-50	5	81°04'50.95494"	20°42'02.08836"	P-100	9	81°00'03.24216"	20°43'47.43493"
P-101	9	81°00'03.24216"	20°43'47.43493"	P-151	13	81°02'08.59142"	20°27'53.00425"
P-102	9	81°00'10.12383"	20°43'47.15568"	P-152	13	81°02'04.96308"	20°27'55.72490"
P-103	9	81°00'16.74956"	20°43'48.89937"	P-153	13	81°02'10.85330"	20°27'51.53399"

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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-104	9	81°00'23.57152"	20°43'49.55486"	P-154	13	81°02'08.59142"	20°27'53.00425"
P-105	9	81°00'30.20685"	20°43'50.20508"	P-155	13	80°51'31.05460"	20°45'58.88233"
P-106	9	81°00'32.71728"	20°43'53.34232"	P-156	13	80°51'27.10364"	20°45'55.31785"
P-107	9	81°00'32.71728"	20°43'53.34232"	P-157	14	80°50'33.55334"	20°44'52.94086"
P-108	9	81°00'34.79636"	20°43'51.70438"	P-158	14	80°50'27.11836"	20°44'50.71757"
P-109	10	80°58'29.09042"	20°43'32.14159"	P-159	14	80°50'25.44533"	20°44'50.24099"
P-110	10	80°58'33.59462"	20°43'36.96997"	P-160	14	80°50'25.44533"	20°44'50.24099"
P-111	10	80°58'39.75166"	20°43'39.92517"	P-161	14	80°50'25.22655"	20°44'50.01790"
P-112	10	80°58'40.49259"	20°43'40.29294"	P-162	14	80°50'25.22655"	20°44'50.01790"
P-113	11	80°56'45.63847"	20°42'12.21076"	P-163	14	80°50'27.83096"	20°44'44.09300"
P-114	11	80°56'45.33178"	20°42'13.06334"	P-164	14	80°50'31.62594"	20°44'38.82090"
P-115	11	80°56'45.33178"	20°42'13.06334"	P-165	14	80°50'35.22705"	20°44'33.32566"
P-116	11	80°56'50.92526"	20°42'16.83638"	P-166	14	80°50'38.18002"	20°44'31.93954"
P-117	11	80°56'56.23227"	20°42'20.11503"	P-167	14	80°50'44.13843"	20°44'30.34050"
P-118	11	80°56'56.23227"	20°42'20.11503"	P-168	14	80°50'48.10131"	20°44'25.09817"
P-119	11	80°57'02.17637"	20°42'23.43283"	P-169	14	80°50'49.51867"	20°44'23.35705"
P-120	11	80°57'07.83242"	20°42'27.17239"	P-170	14	80°50'10.74604"	20°44'49.60575"
P-121	11	80°57'13.25679"	20°42'31.20318"	P-171	14	80°50'17.60296"	20°44'50.34919"
P-122	11	80°57'14.85646"	20°42'32.47529"	P-172	14	80°49'53.37993"	20°44'34.73202"
P-123	11	80°56'45.33178"	20°42'13.06334"	P-173	14	80°49'53.92249"	20°44'41.14248"
P-124	11	80°56'39.20724"	20°42'10.06072"	P-174	14	80°49'56.09248"	20°44'43.82107"
P-125	11	80°56'38.58101"	20°42'10.36124"	P-175	14	80°50'22.25889"	20°44'50.93876"
P-126	11	80°56'38.58101"	20°42'10.36124"	P-176	14	80°50'25.22655"	20°44'50.01790"
P-127	11	80°56'44.52084"	20°42'12.93121"	P-177	14	80°50'25.22655"	20°44'50.01790"
P-128	11	80°56'45.33178"	20°42'13.06334"	P-178	14	80°50'18.67863"	20°44'50.17111"
P-129	11	80°57'02.81430"	20°41'56.13742"	P-179	14	80°50'11.83301"	20°44'49.29670"
P-130	11	80°57'02.29056"	20°41'56.23620"	P-180	14	80°49'54.18787"	20°44'38.83686"
P-131	11	80°56'48.86443"	20°42'06.51350"	P-181	14	80°49'53.10285"	20°44'32.52162"

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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-132	11	80°56'47.26345"	20°42'07.88633"	P-182	14	80°49'36.99798"	20°44'20.11489"
P-133	12	80°55'29.51806"	20°46'01.89352"	P-183	14	80°49'37.02747"	20°44'19.70288"
P-134	12	80°55'22.65302"	20°46'02.57254"	P-184	14	80°49'36.94876"	20°44'19.63989"
P-135	12	80°55'17.15488"	20°46'02.96714"	P-185	14	80°49'36.93961"	20°44'19.63257"
P-136	12	80°53'54.47075"	20°47'09.41972"	P-186	14	80°49'36.11422"	20°44'19.01053"
P-137	12	80°53'53.34925"	20°47'15.79120"	P-187	15	80°50'53.13931"	20°42'26.58854"
P-138	12	80°53'53.25359"	20°47'16.13011"	P-188	15	80°50'48.30343"	20°42'21.97353"
P-139	12	80°54'58.68398"	20°46'10.07986"	P-189	15	80°50'42.88461"	20°42'17.93733"
P-140	12	80°54'57.86262"	20°46'10.35688"	P-190	15	80°50'38.58706"	20°42'12.87023"
P-141	12	80°55'11.87954"	20°46'04.09506"	P-191	15	80°50'37.98228"	20°42'11.95546"
P-142	12	80°55'07.27656"	20°46'06.05792"	P-192	16	80°52'45.88434"	20°42'42.21434"
P-143	12	80°54'47.56134"	20°46'12.84929"	P-193	16	80°52'44.56550"	20°42'36.02999"
P-144	12	80°54'44.14704"	20°46'12.44412"	P-194	16	80°52'45.06129"	20°42'29.54272"
P-145	13	80°52'43.68573"	20°46'26.08099"	P-195	16	80°52'45.18407"	20°42'28.50553"
P-146	13	80°52'42.78327"	20°46'19.63809"	P-196	16	80°52'45.18407"	20°42'28.50553"
P-147	13	80°52'40.12010"	20°46'13.82337"	P-197	16	80°52'45.73116"	20°42'22.02084"
P-148	13	80°52'35.43395"	20°46'11.59051"	P-198	16	80°52'46.68575"	20°42'16.56746"
P-149	13	80°52'35.43395"	20°46'11.59051"	P-199	16	80°52'49.51041"	20°42'58.72820"
P-150	13	80°52'30.71843"	20°46'11.81460"	P-200	16	80°52'49.62520"	20°42'58.28604"
P-201	16	80°52'44.88479"	20°43'32.07664"	P-251	20	80°58'49.86140"	20°38'31.72118"
P-202	16	80°52'45.78831"	20°43'30.89594"	P-252	20	80°59'13.62605"	20°37'21.86305"
P-203	16	80°52'49.62520"	20°42'58.28604"	P-253	20	80°59'14.63109"	20°37'20.32852"
P-204	16	80°52'49.73032"	20°42'57.88698"	P-254	20	80°58'52.77596"	20°37'54.82925"
P-205	16	80°52'59.50786"	20°42'02.89175"	P-255	20	80°58'56.27262"	20°37'49.21768"
P-206	16	80°53'01.51968"	20°42'01.74362"	P-256	20	80°58'59.81992"	20°37'43.64430"
P-207	16	80°53'03.45316"	20°41'59.65958"	P-257	20	80°59'02.85726"	20°37'37.82186"
P-208	16	80°53'03.98121"	20°41'59.09531"	P-258	20	80°59'06.49963"	20°37'32.29380"
P-209	16	80°53'05.59625"	20°41'57.35653"	P-259	20	80°59'10.26315"	20°37'26.83775"

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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-210	16	80°53'06.62526"	20°41'56.23747"	P-260	20	80°59'13.62605"	20°37'21.86305"
P-211	16	80°53'16.21811"	20°41'46.68611"	P-261	21	81°02'43.01421"	20°37'32.41835"
P-212	16	80°53'18.58354"	20°41'43.40906"	P-262	21	81°02'40.30114"	20°37'30.10890"
P-213	17	80°54'01.02782"	20°40'07.16846"	P-263	21	81°02'18.23610"	20°37'12.75120"
P-214	17	80°54'01.51187"	20°40'10.97010"	P-264	21	81°02'16.25182"	20°37'06.91051"
P-215	17	80°55'20.45911"	20°40'31.38820"	P-265	21	81°02'15.72951"	20°37'03.97405"
P-216	17	80°55'25.75897"	20°40'27.42737"	P-266	21	81°02'40.30114"	20°37'30.10890"
P-217	17	80°55'29.82298"	20°40'26.42396"	P-267	21	81°02'35.66028"	20°37'25.77395"
P-218	17	80°55'29.82298"	20°40'26.42396"	P-268	21	81°02'21.02247"	20°37'22.90491"
P-219	17	80°55'35.87479"	20°40'24.63920"	P-269	22	81°04'24.09050"	20°38'40.90988"
P-220	17	80°54'52.75980"	20°40'30.66081"	P-270	22	81°04'20.41547"	20°38'46.39022"
P-221	17	80°54'59.63582"	20°40'30.57900"	P-271	22	81°04'16.27977"	20°38'51.57980"
P-222	17	80°55'00.77776"	20°40'30.64779"	P-272	22	81°04'14.69619"	20°38'53.20191"
P-223	17	80°55'14.30972"	20°40'30.67369"	P-273	22	81°03'20.15976"	20°39'16.06759"
P-224	17	80°55'18.71233"	20°40'31.36539"	P-274	22	81°03'18.77700"	20°39'10.78068"
P-225	17	80°55'20.22092"	20°40'31.43348"	P-275	22	81°03'14.63659"	20°39'05.87661"
P-226	17	80°55'08.15343"	20°40'30.56870"	P-276	22	81°03'12.84383"	20°39'04.38127"
P-227	17	80°55'14.30972"	20°40'30.67369"	P-277	22	81°03'23.50940"	20°39'26.58106"
P-228	17	80°54'48.31444"	20°40'32.13390"	P-278	22	81°03'21.93460"	20°39'22.13987"
P-229	17	80°54'48.69384"	20°40'31.72970"	P-279	23	81°06'35.34454"	20°39'15.27629"
P-230	18	80°58'42.04974"	20°41'15.16868"	P-280	23	81°06'34.84080"	20°39'14.82347"
P-231	18	80°58'42.35612"	20°41'21.21229"	P-281	23	81°06'41.28659"	20°39'20.59553"
P-232	18	80°58'42.78290"	20°41'27.67518"	P-282	23	81°06'36.28029"	20°39'16.11001"
P-233	18	80°58'45.64912"	20°41'29.98219"	P-283	23	81°06'35.34454"	20°39'15.27629"
P-234	18	80°58'21.89565"	20°42'00.86582"	P-284	23	81°06'06.84552"	20°38'58.90508"
P-235	18	80°58'15.11820"	20°42'00.07763"	P-285	23	81°06'05.67950"	20°38'58.54434"
P-236	18	80°58'10.40464"	20°41'55.63503"	P-286	24	81°08'04.72338"	20°40'52.22887"
P-237	18	80°58'08.64737"	20°41'49.34527"	P-287	24	81°08'06.29147"	20°40'58.56433"

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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-238	18	80°58'07.97825"	20°41'46.41063"	P-288	24	81°08'05.44598"	20°41'01.51451"
P-239	18	80°58'07.97825"	20°41'46.41063"	P-289	24	81°08'05.44598"	20°41'01.51451"
P-240	18	80°58'06.98242"	20°41'42.66126"	P-290	24	81°08'04.77341"	20°41'01.38907"
P-241	19	80°58'13.39365"	20°39'55.80901"	P-291	24	81°08'05.44598"	20°41'01.51451"
P-242	19	80°58'15.17625"	20°39'58.45677"	P-292	24	81°08'02.55199"	20°41'07.40329"
P-243	19	80°58'15.17625"	20°39'58.45677"	P-293	24	81°07'59.71603"	20°41'13.16708"
P-244	19	80°58'20.12118"	20°40'02.95280"	P-294	24	81°08'00.03431"	20°41'18.57910"
P-245	19	80°58'21.84594"	20°40'08.89678"	P-295	24	81°08'06.90015"	20°41'19.33281"
P-246	19	80°58'23.50473"	20°40'15.17397"	P-296	24	81°08'13.07211"	20°41'21.95737"
P-247	19	80°58'25.09911"	20°40'18.96930"	P-297	24	81°08'15.02804"	20°41'23.32923"
P-248	20	80°58'43.08771"	20°38'45.92205"	P-298	24	81°08'15.02804"	20°41'23.32923"
P-249	20	80°58'43.01095"	20°38'39.41895"	P-299	24	81°08'20.58027"	20°41'27.20475"
P-250	20	80°58'45.91600"	20°38'33.83466"	P-300	24	81°08'25.04744"	20°41'31.80102"
P-301	24	81°08'25.48867"	20°41'38.08898"	P-351	26	81°06'28.15548"	20°38'13.97684"
P-302	24	81°08'28.98016"	20°41'43.70351"	P-352	26	81°06'34.72885"	20°38'15.97474"
P-303	24	81°08'29.67129"	20°41'46.15645"	P-353	26	81°06'39.72079"	20°38'17.77313"
P-304	24	81°08'29.67129"	20°41'46.15645"	P-354	27	81°09'55.82346"	20°36'51.39741"
P-305	24	81°08'29.46794"	20°41'52.65906"	P-355	27	81°09'59.27416"	20°36'49.95451"
P-306	24	81°08'29.32115"	20°41'59.16319"	P-356	27	81°08'13.17533"	20°38'16.41352"
P-307	24	81°08'33.41400"	20°42'03.81128"	P-357	27	81°08'02.76592"	20°38'14.83961"
P-308	24	81°08'36.04880"	20°42'05.54322"	P-358	27	81°07'55.94180"	20°38'15.85916"
P-309	24	81°08'36.04880"	20°42'05.54322"	P-359	27	81°07'54.38464"	20°38'16.10982"
P-310	24	81°08'41.69169"	20°42'09.30160"	P-360	27	81°07'49.17899"	20°38'15.94811"
P-311	24	81°08'47.39491"	20°42'12.97865"	P-361	27	81°07'44.53299"	20°38'17.87214"
P-312	24	81°08'53.12922"	20°42'16.61323"	P-362	27	81°07'08.15098"	20°37'29.63330"
P-313	24	81°08'58.87061"	20°42'20.23791"	P-363	27	81°07'02.31260"	20°37'32.66147"
P-314	24	81°09'04.63813"	20°42'23.82541"	P-364	27	81°06'59.79381"	20°37'38.50981"
P-315	24	81°09'10.47623"	20°42'27.31085"	P-365	27	81°06'59.26919"	20°37'39.31788"

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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-316	24	81°09'12.12723"	20°42'28.32427"	P-366	27	81°07'44.36117"	20°38'17.88284"
P-317	24	81°09'55.05446"	20°42'48.51183"	P-367	27	81°07'41.85490"	20°38'11.82437"
P-318	24	81°10'01.89660"	20°42'49.44107"	P-368	27	81°07'38.35867"	20°38'06.45204"
P-319	24	81°10'08.73971"	20°42'50.36794"	P-369	27	81°07'33.81475"	20°38'01.57182"
P-320	24	81°10'13.56037"	20°42'51.02748"	P-370	27	81°07'30.45027"	20°37'55.91937"
P-321	24	81°09'12.12723"	20°42'28.32427"	P-371	27	81°07'27.90538"	20°37'49.87559"
P-322	24	81°09'17.93181"	20°42'31.85882"	P-372	27	81°07'25.30029"	20°37'43.92292"
P-323	24	81°09'23.69043"	20°42'35.45960"	P-373	27	81°07'18.84462"	20°37'41.84709"
P-324	24	81°09'29.39256"	20°42'39.13863"	P-374	27	81°07'13.88426"	20°37'38.01931"
P-325	24	81°09'35.09987"	20°42'42.80520"	P-375	27	81°07'10.28042"	20°37'32.91938"
P-326	24	81°09'41.34711"	20°42'45.56206"	P-376	27	81°07'08.15098"	20°37'29.63330"
P-327	24	81°09'47.93770"	20°42'47.32778"	P-377	27	81°08'17.38285"	20°38'17.83132"
P-328	24	81°09'54.74616"	20°42'48.45456"	P-378	27	81°08'03.80012"	20°38'14.67894"
P-329	24	81°09'55.05446"	20°42'48.51183"	P-379	27	81°08'06.26568"	20°38'14.32132"
P-330	24	81°10'13.56037"	20°42'51.02748"	P-380	27	81°08'04.43712"	20°38'14.56234"
P-331	24	81°10'20.40896"	20°42'51.92393"	P-381	28	81°10'51.27484"	20°35'45.34574"
P-332	24	81°10'27.26701"	20°42'52.75367"	P-382	28	81°10'57.33138"	20°35'46.90971"
P-333	24	81°10'33.86384"	20°42'54.43330"	P-383	28	81°11'04.17611"	20°35'46.08598"
P-334	24	81°10'40.04114"	20°42'57.35640"	P-384	28	81°11'10.98252"	20°35'47.15108"
P-335	24	81°10'46.32311"	20°43'00.06841"	P-385	28	81°11'17.77996"	20°35'48.31484"
P-336	24	81°10'52.57613"	20°43'02.84203"	P-386	28	81°11'24.58426"	20°35'49.44252"
P-337	24	81°10'58.74539"	20°43'05.77791"	P-387	28	81°11'27.20988"	20°35'49.90522"
P-338	24	81°11'05.35249"	20°43'06.63231"	P-388	28	81°11'27.20988"	20°35'49.90522"
P-339	24	81°11'11.71875"	20°43'05.85505"	P-389	28	81°11'33.10928"	20°35'47.36699"
P-340	25	81°07'13.65715"	20°38'51.81201"	P-390	28	81°11'37.35458"	20°35'42.26791"
P-341	25	81°07'16.39079"	20°38'57.74658"	P-391	28	81°11'43.91243"	20°35'42.91468"
P-342	25	81°07'14.81379"	20°39'04.00375"	P-392	28	81°11'50.69493"	20°35'44.08111"
P-343	25	81°07'11.66774"	20°39'08.72132"	P-393	28	81°11'57.03840"	20°35'42.60660"

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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-344	25	81°07'14.60060"	20°39'14.17650"	P-394	28	81°11'57.03840"	20°35'42.60660"
P-345	25	81°07'17.51720"	20°39'18.45851"	P-395	28	81°12'03.04250"	20°35'39.47278"
P-346	25	81°07'20.84521"	20°39'23.70030"	P-396	28	81°12'08.34915"	20°35'35.34854"
P-347	25	81°07'25.45129"	20°39'25.77827"	P-397	28	81°12'14.20462"	20°35'33.26241"
P-348	26	81°06'19.84185"	20°38'13.14184"	P-398	28	81°12'18.71433"	20°35'37.88087"
P-349	26	81°06'26.69538"	20°38'13.64860"	P-399	28	81°12'24.06790"	20°35'38.57634"
P-350	26	81°06'28.15548"	20°38'13.97684"	P-400	28	81°12'44.67511"	20°35'33.14165"
P-401	28	81°12'49.26000"	20°35'34.88290"	P-451	29	81°15'27.81045"	20°33'46.07115"
P-402	28	81°12'46.70386"	20°35'31.66146"	P-452	29	81°15'30.44936"	20°33'40.41578"
P-403	28	81°12'24.06790"	20°35'38.57634"	P-453	29	81°15'25.08073"	20°34'22.37738"
P-404	28	81°12'30.94751"	20°35'38.13214"	P-454	29	81°15'22.94285"	20°34'19.34979"
P-405	28	81°12'37.03333"	20°35'35.14920"	P-455	29	81°15'21.54052"	20°34'14.02073"
P-406	28	81°12'43.59537"	20°35'33.23086"	P-456	29	81°15'20.83027"	20°34'07.55742"
P-407	28	81°12'43.87591"	20°35'26.87752"	P-457	29	81°15'20.49515"	20°34'01.06608"
P-408	28	81°12'40.14420"	20°35'21.77228"	P-458	29	81°15'20.85260"	20°33'59.59489"
P-409	28	81°12'40.42441"	20°35'15.27830"	P-459	29	81°15'30.44936"	20°33'40.41578"
P-410	28	81°12'41.53260"	20°35'09.11163"	P-460	29	81°15'31.68679"	20°33'38.77051"
P-411	28	81°12'45.66507"	20°35'03.94022"	P-461	30	81°14'11.55880"	20°32'18.43149"
P-412	28	81°12'46.18271"	20°35'03.23509"	P-462	30	81°13'40.65534"	20°32'49.29000"
P-413	28	81°13'04.91670"	20°34'52.09946"	P-463	30	81°13'33.75900"	20°32'49.26293"
P-414	28	81°13'08.12657"	20°34'46.69118"	P-464	30	81°14'09.84447"	20°32'20.34615"
P-415	28	81°13'14.21072"	20°34'43.61715"	P-465	30	81°14'06.14797"	20°32'25.14867"
P-416	28	81°13'20.47713"	20°34'40.93330"	P-466	30	81°14'04.34536"	20°32'31.40014"
P-417	28	81°13'27.24679"	20°34'39.73447"	P-467	30	81°13'59.65456"	20°32'36.05892"
P-418	28	81°13'33.85735"	20°34'37.86351"	P-468	30	81°13'55.79330"	20°32'41.30340"
P-419	28	81°13'40.65275"	20°34'36.81187"	P-469	30	81°13'51.44272"	20°32'46.31273"
P-420	28	81°13'44.01641"	20°34'36.61782"	P-470	30	81°13'48.06832"	20°32'49.53286"
P-421	28	81°12'46.18271"	20°35'03.23509"	P-471	30	81°13'28.92813"	20°32'48.65134"

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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-422	28	81°12'51.79904"	20°34'59.53736"	P-472	30	81°13'22.80711"	20°32'51.10923"
P-423	28	81°12'57.83252"	20°34'56.49122"	P-473	30	81°13'22.01068"	20°32'53.04996"
P-424	28	81°13'03.42331"	20°34'52.91429"	P-474	31	81°13'20.90431"	20°33'29.98889"
P-425	28	81°13'04.91670"	20°34'52.09946"	P-475	31	81°13'19.15807"	20°33'29.22379"
P-426	28	81°14'26.55244"	20°34'32.53581"	P-476	31	81°13'19.15807"	20°33'29.22379"
P-427	28	81°14'32.87782"	20°34'33.77335"	P-477	31	81°13'12.92444"	20°33'26.42911"
P-428	28	81°14'39.38824"	20°34'35.85389"	P-478	31	81°13'07.23047"	20°33'23.01601"
P-429	28	81°14'45.62663"	20°34'38.63190"	P-479	31	81°12'56.28082"	20°33'09.68470"
P-430	28	81°14'46.78756"	20°34'39.11707"	P-480	31	81°12'53.78580"	20°33'03.71186"
P-431	28	81°13'44.01641"	20°34'36.61782"	P-481	31	81°12'53.97019"	20°32'57.29376"
P-432	28	81°13'50.70953"	20°34'35.04139"	P-482	31	81°12'54.13760"	20°32'53.63746"
P-433	28	81°13'56.87346"	20°34'32.44540"	P-483	31	81°12'54.13760"	20°32'53.63746"
P-434	28	81°14'03.10612"	20°34'35.14359"	P-484	31	81°12'52.43818"	20°32'47.41875"
P-435	28	81°14'09.73714"	20°34'35.93624"	P-485	31	81°12'48.29889"	20°32'42.70998"
P-436	28	81°14'16.63307"	20°34'36.23166"	P-486	31	81°12'45.09942"	20°32'41.57370"
P-437	28	81°14'23.10958"	20°34'34.27938"	P-487	31	81°12'51.50744"	20°32'14.91956"
P-438	28	81°14'26.55244"	20°34'32.53581"	P-488	31	81°12'54.96259"	20°32'09.34571"
P-439	28	81°15'06.65461"	20°34'40.42783"	P-489	31	81°12'58.74210"	20°32'03.90331"
P-440	28	81°15'13.44037"	20°34'39.87502"	P-490	31	81°13'02.73962"	20°31'58.62565"
P-441	28	81°15'20.27835"	20°34'40.44798"	P-491	31	81°13'05.48779"	20°31'53.06753"
P-442	28	81°15'22.13633"	20°34'40.51974"	P-492	31	81°13'02.97551"	20°31'48.76788"
P-443	28	81°14'46.78756"	20°34'39.11707"	P-493	31	81°12'45.09942"	20°32'41.57370"
P-444	28	81°14'52.53103"	20°34'42.71272"	P-494	31	81°12'40.08937"	20°32'37.40792"
P-445	28	81°14'59.28399"	20°34'42.19910"	P-495	31	81°12'40.31946"	20°32'30.92986"
P-446	28	81°15'05.85204"	20°34'40.45957"	P-496	31	81°12'42.70511"	20°32'24.84573"
P-447	28	81°15'06.65461"	20°34'40.42783"	P-497	31	81°12'46.94627"	20°32'19.74617"
P-448	29	81°15'29.69592"	20°34'27.96827"	P-498	31	81°12'51.50744"	20°32'14.91956"
P-449	29	81°15'25.45594"	20°34'22.84561"	P-499	31	81°13'02.97551"	20°31'48.76788"

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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-450	29	81°15'25.08073"	20°34'22.37738"	P-500	31	81°12'59.31540"	20°31'43.66042"
P-501	31	81°13'02.11156"	20°31'37.73750"	P-551	33	81°08'20.71505"	20°29'32.52547"
P-502	31	81°13'01.91112"	20°31'31.35270"	P-552	33	81°08'19.40680"	20°29'26.13806"
P-503	31	81°13'05.01231"	20°31'25.96188"	P-553	33	81°08'18.27206"	20°29'22.35013"
P-504	31	81°13'09.45567"	20°31'21.29893"	P-554	33	81°09'47.19294"	20°28'25.09638"
P-505	31	81°13'06.24294"	20°31'15.67584"	P-555	33	81°09'49.41990"	20°28'19.11146"
P-506	31	81°13'01.39156"	20°31'11.38459"	P-556	33	81°09'49.55205"	20°28'19.00200"
P-507	31	81°12'59.94753"	20°31'05.52804"	P-557	34	81°10'38.65334"	20°27'42.66847"
P-508	31	81°12'55.16204"	20°31'01.08116"	P-558	34	81°10'44.16305"	20°27'38.76732"
P-509	31	81°12'52.40998"	20°30'56.95845"	P-559	34	81°10'48.74629"	20°27'33.96333"
P-510	31	81°12'34.62769"	20°30'45.46795"	P-560	34	81°10'49.00113"	20°27'33.37647"
P-511	31	81°12'29.45738"	20°30'43.07342"	P-561	34	81°10'49.00113"	20°27'33.37647"
P-512	31	81°12'52.40998"	20°30'56.95845"	P-562	34	81°10'51.40620"	20°27'27.30634"
P-513	31	81°12'46.49673"	20°30'53.95039"	P-563	34	81°10'52.03331"	20°27'21.10247"
P-514	31	81°12'39.80188"	20°30'53.03940"	P-564	34	81°10'58.08148"	20°27'18.08196"
P-515	31	81°12'35.88926"	20°30'47.74219"	P-565	34	81°11'04.52450"	20°27'16.06091"
P-516	31	81°12'34.62769"	20°30'45.46795"	P-566	34	81°11'11.15989"	20°27'14.38000"
P-517	32	81°12'10.11046"	20°30'41.55703"	P-567	34	81°11'16.17729"	20°27'13.34011"
P-518	32	81°12'03.39753"	20°30'41.96606"	P-568	35	81°13'58.78163"	20°27'38.93152"
P-519	32	81°11'56.61141"	20°30'40.92787"	P-569	35	81°13'52.06134"	20°27'37.71251"
P-520	32	81°11'53.31939"	20°30'40.96080"	P-570	35	81°13'46.48853"	20°27'36.29082"
P-521	32	81°11'32.68228"	20°30'44.53921"	P-571	35	81°13'44.59622"	20°27'35.18414"
P-522	32	81°11'26.16007"	20°30'46.50128"	P-572	35	81°13'46.59497"	20°27'28.97214"
P-523	32	81°11'19.92966"	20°30'49.05593"	P-573	35	81°13'48.24340"	20°27'23.07722"
P-524	32	81°11'13.11678"	20°30'50.06805"	P-574	35	81°13'46.48853"	20°27'36.29082"
P-525	32	81°11'06.57174"	20°30'48.70127"	P-575	35	81°13'44.59622"	20°27'35.18414"
P-526	32	81°11'01.41622"	20°30'44.85557"	P-576	35	81°13'46.43357"	20°27'36.54105"
P-527	32	81°11'02.72590"	20°30'38.77036"	P-577	35	81°13'53.04319"	20°27'38.28457"

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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-528	32	81°11'00.36975"	20°30'35.82865"	P-578	35	81°13'55.02891"	20°27'38.88151"
P-529	32	81°11'53.31939"	20°30'40.96080"	P-579	35	81°13'47.82571"	20°27'23.24913"
P-530	32	81°11'46.58541"	20°30'42.32267"	P-580	35	81°13'46.09818"	20°27'29.54628"
P-531	32	81°11'39.79964"	20°30'42.40206"	P-581	35	81°13'44.12651"	20°27'35.51170"
P-532	32	81°11'33.44941"	20°30'44.20482"	P-582	35	81°13'44.12651"	20°27'35.51170"
P-533	32	81°11'32.68228"	20°30'44.53921"	P-583	35	81°13'46.43357"	20°27'36.54105"
P-534	32	81°11'00.36975"	20°30'35.82865"	P-584	35	81°13'55.02891"	20°27'38.88151"
P-535	32	81°10'54.34735"	20°30'33.17718"	P-585	35	81°13'58.98509"	20°27'39.25755"
P-536	32	81°10'47.85258"	20°30'32.26178"	P-586	35	81°13'04.96003"	20°27'11.54041"
P-537	32	81°10'40.97505"	20°30'31.80760"	P-587	35	81°13'07.56179"	20°27'09.31571"
P-538	32	81°10'34.87623"	20°30'29.31271"	P-588	35	81°13'50.03875"	20°27'17.76769"
P-539	32	81°10'29.63313"	20°30'25.09405"	P-589	35	81°13'49.73827"	20°27'17.60530"
P-540	32	81°10'28.27267"	20°30'23.03531"	P-590	35	81°13'49.69350"	20°27'17.80563"
P-541	32	81°10'28.27267"	20°30'23.03531"	P-591	35	81°14'02.12546"	20°27'40.02882"
P-542	32	81°10'22.19339"	20°30'20.66489"	P-592	35	81°14'08.04376"	20°27'42.55458"
P-543	32	81°10'15.32031"	20°30'20.46451"	P-593	36	81°13'36.64583"	20°26'11.23610"
P-544	32	81°10'08.42410"	20°30'20.25837"	P-594	36	81°13'32.01533"	20°26'06.44584"
P-545	32	81°10'08.13380"	20°30'20.26130"	P-595	36	81°13'26.17374"	20°26'04.94253"
P-546	32	81°10'04.95343"	20°30'19.12292"	P-596	36	81°13'19.51994"	20°26'03.73327"
P-547	32	81°10'05.95049"	20°30'19.66334"	P-597	36	81°13'12.85996"	20°26'03.31267"
P-548	33	81°08'15.94315"	20°29'14.94294"	P-598	36	81°13'12.81697"	20°26'03.30568"
P-549	33	81°08'15.57307"	20°29'08.85839"	P-599	36	81°13'35.12150"	20°26'32.09833"
P-550	33	81°08'16.11586"	20°29'07.67086"	P-600	36	81°13'39.55569"	20°26'27.27615"
P-601	36	81°13'39.73560"	20°26'21.06706"	P-651	38	81°09'11.92395"	20°24'44.00295"
P-602	36	81°13'38.75932"	20°26'14.62679"	P-652	38	81°09'18.62440"	20°24'42.72611"
P-603	36	81°13'36.64583"	20°26'11.23610"	P-653	38	81°09'25.44226"	20°24'41.82388"
P-604	36	81°13'12.81697"	20°26'03.30568"	P-654	38	81°09'31.81893"	20°24'43.94931"
P-605	36	81°13'06.10424"	20°26'01.87216"	P-655	38	81°09'38.38580"	20°24'44.73550"

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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-606	36	81°12'59.93681"	20°25'59.24022"	P-656	38	81°09'39.03237"	20°24'44.70233"
P-607	36	81°12'56.87734"	20°25'53.53831"	P-657	38	81°09'39.58944"	20°24'44.65670"
P-608	36	81°12'54.58273"	20°25'48.37994"	P-658	38	81°09'40.15218"	20°24'44.60724"
P-609	37	81°11'12.76176"	20°25'56.76634"	P-659	40	81°07'57.03648"	20°27'18.66266"
P-610	37	81°11'06.81584"	20°25'54.57839"	P-660	40	81°07'52.43717"	20°27'17.47368"
P-611	37	81°11'00.11248"	20°25'55.99289"	P-661	40	81°06'24.22838"	20°25'29.41654"
P-612	37	81°10'53.26246"	20°25'56.10218"	P-662	40	81°06'21.95907"	20°25'23.55885"
P-613	37	81°10'46.42346"	20°25'56.94702"	P-663	40	81°06'18.91072"	20°25'11.47942"
P-614	37	81°10'39.53949"	20°25'57.36505"	P-664	40	81°08'18.15027"	20°24'52.64660"
P-615	37	81°10'32.64709"	20°25'57.57362"	P-665	40	81°08'12.86630"	20°24'54.79550"
P-616	37	81°10'31.71834"	20°25'57.61806"	P-666	40	81°08'08.17179"	20°24'58.96864"
P-617	38	81°10'27.41513"	20°25'57.67375"	P-667	40	81°08'01.50335"	20°25'00.61665"
P-618	38	81°10'22.27764"	20°25'57.95287"	P-668	40	81°08'00.38481"	20°25'00.94270"
P-619	38	81°09'45.27775"	20°25'35.34257"	P-669	40	81°07'47.67923"	20°25'06.42241"
P-620	38	81°09'39.83249"	20°25'32.03937"	P-670	40	81°07'41.45766"	20°25'09.22025"
P-621	38	81°09'38.07456"	20°25'29.77727"	P-671	40	81°07'35.85681"	20°25'07.50457"
P-622	38	81°10'22.27764"	20°25'57.95287"	P-672	40	81°07'29.67421"	20°25'06.41659"
P-623	38	81°10'15.74341"	20°25'57.98710"	P-673	40	81°07'23.00409"	20°25'08.02524"
P-624	38	81°10'04.26072"	20°25'50.12750"	P-674	40	81°07'17.19567"	20°25'11.31689"
P-625	38	81°10'02.46218"	20°25'46.48247"	P-675	40	81°07'11.62243"	20°25'14.90342"
P-626	38	81°09'38.07456"	20°25'29.77727"	P-676	40	81°07'05.34328"	20°25'16.71464"
P-627	38	81°09'36.88765"	20°25'23.72972"	P-677	40	81°07'02.40247"	20°25'12.99707"
P-628	38	81°09'35.08687"	20°25'17.66837"	P-678	40	81°08'00.38481"	20°25'00.94270"
P-629	38	81°09'31.52044"	20°25'12.16222"	P-679	40	81°07'53.86700"	20°25'03.05346"
P-630	38	81°09'29.50647"	20°25'05.97607"	P-680	40	81°07'47.90557"	20°25'06.31319"
P-631	38	81°09'26.51493"	20°25'00.13022"	P-681	40	81°07'47.67923"	20°25'06.42241"
P-632	38	81°09'23.74322"	20°24'54.20130"	P-682	40	81°07'02.40247"	20°25'12.99707"
P-633	38	81°09'22.20663"	20°24'47.88055"	P-683	40	81°06'56.25767"	20°25'11.52326"

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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-634	38	81°09'17.31378"	20°24'45.12911"	P-684	40	81°06'51.54662"	20°25'12.21431"
P-635	38	81°09'00.53106"	20°24'45.75752"	P-685	40	81°06'51.54662"	20°25'12.21431"
P-636	38	81°08'53.85200"	20°24'47.12506"	P-686	40	81°06'45.75058"	20°25'14.45293"
P-637	38	81°08'47.01136"	20°24'47.67371"	P-687	40	81°06'38.85838"	20°25'14.25614"
P-638	38	81°08'40.13516"	20°24'48.19369"	P-688	40	81°06'32.03843"	20°25'13.40336"
P-639	38	81°09'11.92395"	20°24'44.00295"	P-689	40	81°06'25.21201"	20°25'12.45484"
P-640	38	81°10'02.46218"	20°25'46.48247"	P-690	40	81°06'18.92622"	20°25'11.55692"
P-641	38	81°09'58.11945"	20°25'41.44463"	P-691	40	81°07'43.78712"	20°27'19.55149"
P-642	38	81°09'52.97827"	20°25'37.33623"	P-692	40	81°07'40.30759"	20°27'20.64268"
P-643	38	81°09'46.31418"	20°25'38.14254"	P-693	40	81°07'49.39564"	20°27'18.23958"
P-644	38	81°09'45.27775"	20°25'35.34257"	P-694	40	81°07'48.93018"	20°27'18.32473"
P-645	38	81°09'38.24371"	20°24'44.40744"	P-695	40	81°07'50.85218"	20°27'17.90573"
P-646	38	81°09'31.72873"	20°24'43.49563"	P-696	40	81°07'49.39564"	20°27'18.23958"
P-647	38	81°09'25.30683"	20°24'41.49094"	P-697	40	81°07'00.01246"	20°27'19.37087"
P-648	38	81°09'18.49439"	20°24'42.41726"	P-698	40	81°06'56.70694"	20°27'18.55927"
P-649	38	81°09'11.78655"	20°24'43.69722"	P-699	40	81°07'01.84328"	20°27'19.75582"
P-650	38	81°09'11.56051"	20°24'43.78442"	P-700	40	81°07'00.01246"	20°27'19.37087"
P-701	40	81°06'43.45297"	20°26'43.15030"	P-751	45	81°00'14.24852"	20°30'37.97198"
P-702	40	81°06'42.73621"	20°26'40.18819"	P-752	45	81°00'14.17203"	20°30'37.69311"
P-703	40	81°06'19.20004"	20°27'50.46157"	P-753	45	81°00'14.17203"	20°30'37.69311"
P-704	40	81°06'20.01406"	20°27'50.22030"	P-754	45	81°00'14.24852"	20°30'37.97198"
P-705	40	81°06'57.03174"	20°27'44.82532"	P-755	46	81°03'27.41321"	20°32'39.20554"
P-706	40	81°06'57.38727"	20°27'45.16815"	P-756	46	81°03'24.50488"	20°32'37.53712"
P-707	41	81°03'56.94982"	20°26'55.21569"	P-757	46	81°03'24.50488"	20°32'37.53712"
P-708	41	81°03'50.13065"	20°26'56.20684"	P-758	46	81°03'23.81825"	20°32'37.13658"
P-709	41	81°03'43.49428"	20°26'57.95771"	P-759	46	81°03'23.81825"	20°32'37.13658"
P-710	41	81°03'37.40247"	20°27'00.84545"	P-760	46	81°03'17.97700"	20°32'33.66509"
P-711	41	81°03'31.32489"	20°27'03.65394"	P-761	46	81°03'12.11960"	20°32'30.21791"

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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-712	41	81°04'04.12741"	20°26'36.10684"	P-762	46	81°03'06.26688"	20°32'26.76563"
P-713	42	81°03'00.29381"	20°27'00.92106"	P-763	46	81°03'00.40068"	20°32'23.33262"
P-714	42	81°02'53.51978"	20°27'01.99182"	P-764	46	81°02'59.65637"	20°32'18.87430"
P-715	42	81°02'47.71077"	20°27'03.79920"	P-765	46	81°03'04.69539"	20°32'14.43650"
P-716	42	81°02'46.78400"	20°27'09.63013"	P-766	46	81°03'06.52709"	20°32'12.88644"
P-717	42	81°02'47.40990"	20°27'11.40051"	P-767	47	81°04'11.53531"	20°33'34.05573"
P-718	43	81°02'04.96308"	20°27'55.72490"	P-768	47	81°04'15.10210"	20°33'28.49074"
P-719	43	81°02'00.66816"	20°27'59.02683"	P-769	47	81°04'17.05245"	20°33'22.36964"
P-720	43	81°01'39.52107"	20°28'12.68195"	P-770	47	81°04'16.64518"	20°33'16.07121"
P-721	43	81°02'00.37929"	20°27'59.21557"	P-771	47	81°04'16.06279"	20°33'14.27449"
P-722	43	81°01'54.82422"	20°28'03.07355"	P-772	47	81°04'16.06279"	20°33'14.27449"
P-723	43	81°01'51.42527"	20°28'05.92439"	P-773	47	81°04'14.06875"	20°33'08.04649"
P-724	44	81°00'42.90779"	20°29'28.64759"	P-774	47	81°04'09.20858"	20°33'03.81243"
P-725	44	81°00'36.56599"	20°29'31.03908"	P-775	47	81°04'03.34932"	20°33'00.37171"
P-726	44	81°00'33.99779"	20°29'36.50062"	P-776	47	81°03'57.49024"	20°32'56.92733"
P-727	44	81°00'34.06319"	20°29'42.95517"	P-777	47	81°03'51.62959"	20°32'53.48674"
P-728	44	81°00'34.12271"	20°29'48.01050"	P-778	47	81°03'49.73304"	20°32'52.35880"
P-729	45	81°00'48.47825"	20°30'28.79307"	P-779	48	81°07'42.70988"	20°35'48.90896"
P-730	45	81°00'54.45821"	20°30'31.74012"	P-780	48	81°07'43.72056"	20°35'50.24742"
P-731	45	81°00'59.11963"	20°30'36.38784"	P-781	48	81°07'31.68136"	20°35'23.28523"
P-732	45	81°01'05.56093"	20°30'34.23036"	P-782	48	81°07'34.80614"	20°35'29.02046"
P-733	45	81°01'12.35019"	20°30'34.47041"	P-783	48	81°07'35.40492"	20°35'30.42829"
P-734	45	81°01'18.83477"	20°30'36.57305"	P-784	48	81°07'43.72056"	20°35'50.24742"
P-735	45	81°01'24.95075"	20°30'37.84264"	P-785	48	81°07'45.28952"	20°35'56.21016"
P-736	45	81°01'24.95075"	20°30'37.84264"	P-786	48	81°07'45.50074"	20°35'56.94452"
P-737	45	81°01'31.66443"	20°30'36.34711"	P-787	48	81°07'18.36882"	20°34'00.00041"
P-738	45	81°01'38.40395"	20°30'35.21893"	P-788	48	81°07'18.64656"	20°34'01.70355"
P-739	45	81°01'44.66603"	20°30'32.56793"	P-789	48	81°07'18.64656"	20°34'01.70355"

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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-740	45	81°01'51.40318"	20°30'31.52481"	P-790	48	81°07'20.42352"	20°34'07.87022"
P-741	45	81°01'58.28527"	20°30'31.81036"	P-791	48	81°07'20.85890"	20°34'08.38716"
P-742	45	81°02'04.81863"	20°30'29.72310"	P-792	48	81°07'20.85890"	20°34'08.38716"
P-743	45	81°02'10.75054"	20°30'28.87910"	P-793	48	81°07'24.58486"	20°34'11.17117"
P-744	45	81°00'34.56346"	20°30'25.82289"	P-794	48	81°07'23.99100"	20°34'11.91540"
P-745	45	81°00'35.46822"	20°30'27.43802"	P-795	48	81°07'23.99100"	20°34'11.91540"
P-746	45	81°00'20.05408"	20°30'36.43379"	P-796	48	81°07'25.18230"	20°34'18.31737"
P-747	45	81°00'20.00842"	20°30'36.27540"	P-797	48	81°07'23.66470"	20°34'24.63961"
P-748	45	81°00'22.97993"	20°30'34.77467"	P-798	48	81°07'19.23861"	20°34'29.60553"
P-749	45	81°00'23.29606"	20°30'34.18344"	P-799	48	81°07'18.41981"	20°34'35.66174"
P-750	45	81°00'22.00669"	20°30'35.07487"	P-800	48	81°07'17.98048"	20°34'41.94305"
P-801	48	81°07'17.31927"	20°34'44.28091"	P-851	51	81°07'34.79180"	20°30'58.91038"
P-802	48	81°06'55.57508"	20°34'59.68293"	P-852	51	81°07'33.78156"	20°31'03.35748"
P-803	48	81°06'50.87464"	20°35'04.43656"	P-832	49	81°09'23.38365"	20°35'02.35219"
P-804	48	81°06'44.75524"	20°35'05.92433"	P-833	49	81°09'16.63124"	20°35'00.99375"
P-805	48	81°06'43.27822"	20°35'05.63802"	P-834	49	81°09'09.86088"	20°34'59.70695"
P-806	48	81°06'43.27822"	20°35'05.63802"	P-835	49	81°09'05.56582"	20°35'00.52112"
P-807	48	81°06'36.92551"	20°35'07.79404"	P-836	49	81°09'55.29588"	20°34'41.30965"
P-808	48	81°06'32.14285"	20°35'12.34665"	P-837	49	81°09'55.90687"	20°34'43.43823"
P-809	48	81°06'25.72518"	20°35'14.58663"	P-838	50	81°08'46.81898"	20°32'47.00544"
P-810	48	81°07'16.17429"	20°34'48.20359"	P-839	50	81°08'49.50710"	20°32'52.91375"
P-811	48	81°07'11.24907"	20°34'52.45196"	P-840	50	81°08'54.60665"	20°32'57.24266"
P-812	48	81°07'05.05009"	20°34'55.31493"	P-841	50	81°08'57.66794"	20°33'02.89442"
P-813	48	81°06'58.76427"	20°34'58.00664"	P-842	50	81°09'01.65267"	20°33'07.58295"
P-814	48	81°06'55.57508"	20°34'59.68293"	P-843	50	81°09'06.11135"	20°33'08.92147"
P-815	48	81°06'24.44449"	20°35'16.67170"	P-844	50	81°09'06.11135"	20°33'08.92147"
P-816	48	81°06'21.84581"	20°35'22.64227"	P-845	50	81°09'09.52421"	20°33'09.08164"
P-817	48	81°06'15.38433"	20°35'24.85916"	P-846	51	81°06'58.25100"	20°29'14.87006"

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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-818	48	81°06'09.48414"	20°35'27.78896"	P-847	51	81°07'04.96273"	20°29'16.39465"
P-819	48	81°06'06.51350"	20°35'33.66232"	P-848	51	81°07'08.50427"	20°29'17.15861"
P-820	48	81°06'02.81666"	20°35'38.86890"	P-849	51	81°07'08.50427"	20°29'17.15861"
P-821	48	81°05'58.73199"	20°35'40.44542"	P-850	51	81°07'14.56451"	20°29'18.05929"
P-822	48	81°07'18.64656"	20°34'01.70355"				
P-823	48	81°07'18.99533"	20°34'01.73508"				
P-824	48	81°07'19.83018"	20°34'13.48182"				
P-825	48	81°07'23.99100"	20°34'11.91540"				
P-826	48	81°07'23.99100"	20°34'11.91540"				
P-827	48	81°07'19.70091"	20°34'13.20834"				
P-828	49	81°09'54.32117"	20°34'27.62819"				
P-829	49	81°09'55.08784"	20°34'34.02654"				
P-830	49	81°09'55.40647"	20°34'40.52352"				
P-831	49	81°09'55.29588"	20°34'41.30965"				

उप वनमण्डलाधिकारी
बालोद

वन परिक्षेत्र अधिकारी
वन परिक्षेत्र.....बालोद.....
वन परिक्षेत्र अधिकारी
वन परिक्षेत्र.....इन्डोरा.....

Divisional Forest Officer
Balod Division, Balod



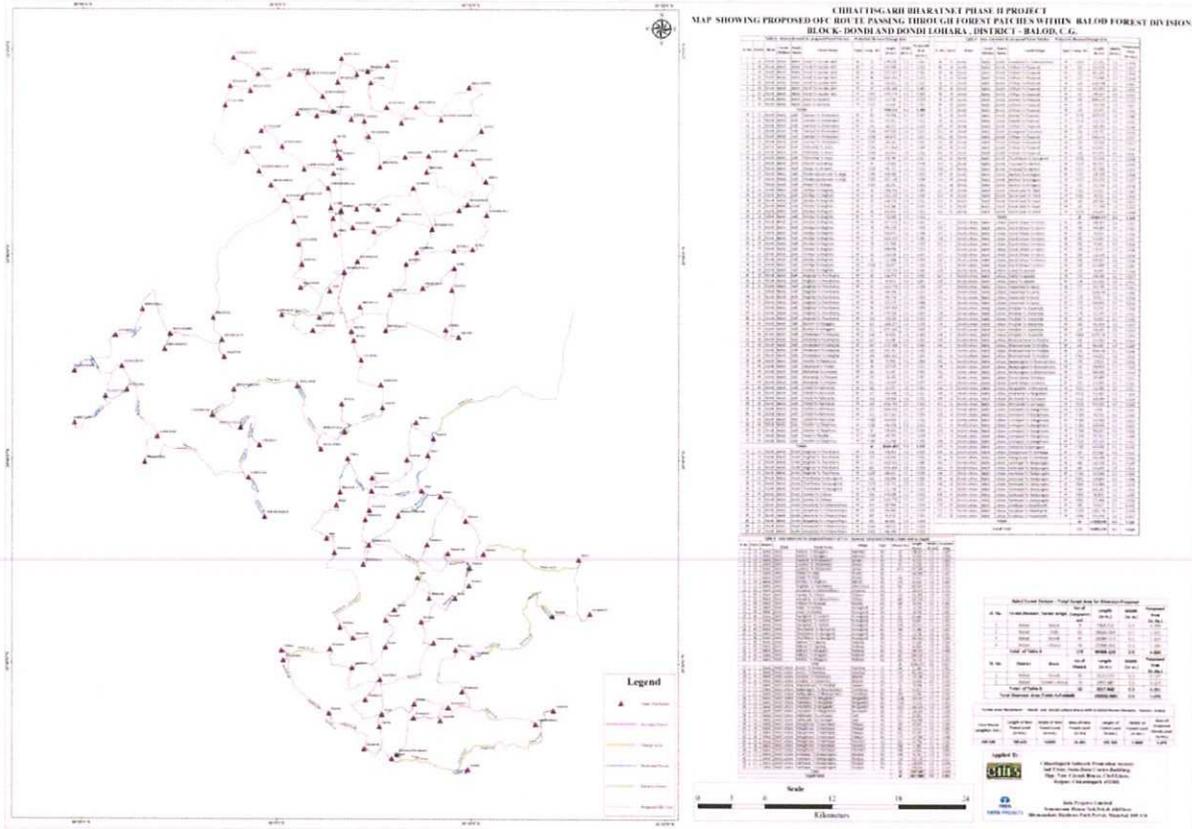
उप वनमण्डलाधिकारी
दल्ली राजहरा

वन परिक्षेत्र अधिकारी
वन परिक्षेत्र.....मोहरा.....

वन परिक्षेत्र अधिकारी
वन परिक्षेत्र.....उडी.....

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

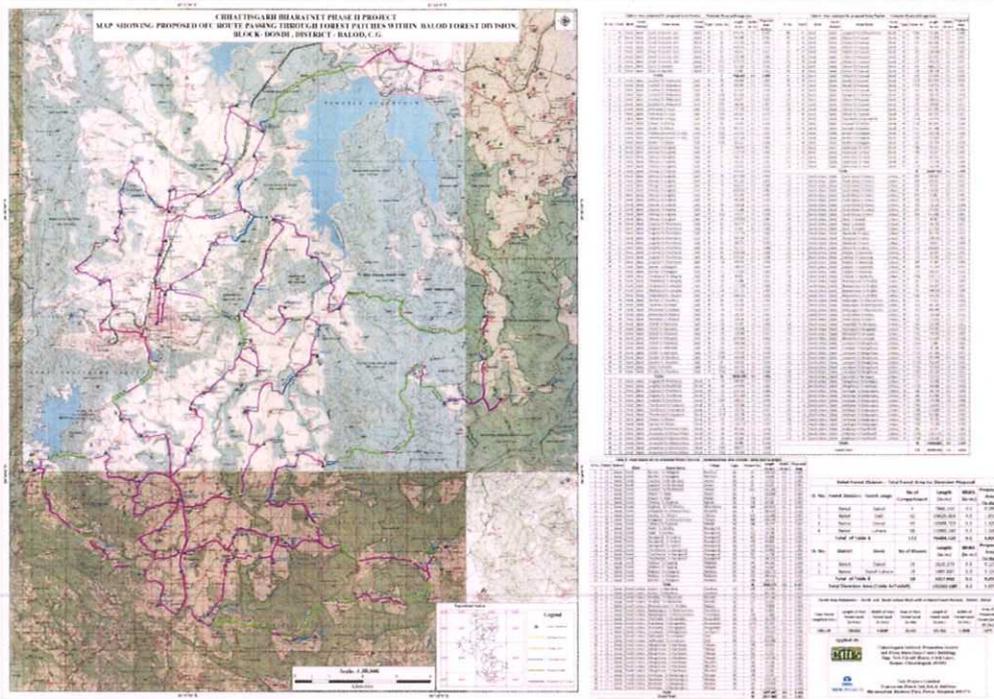
5.3.1. Map showing Geo-reference map of proposed OFC Route



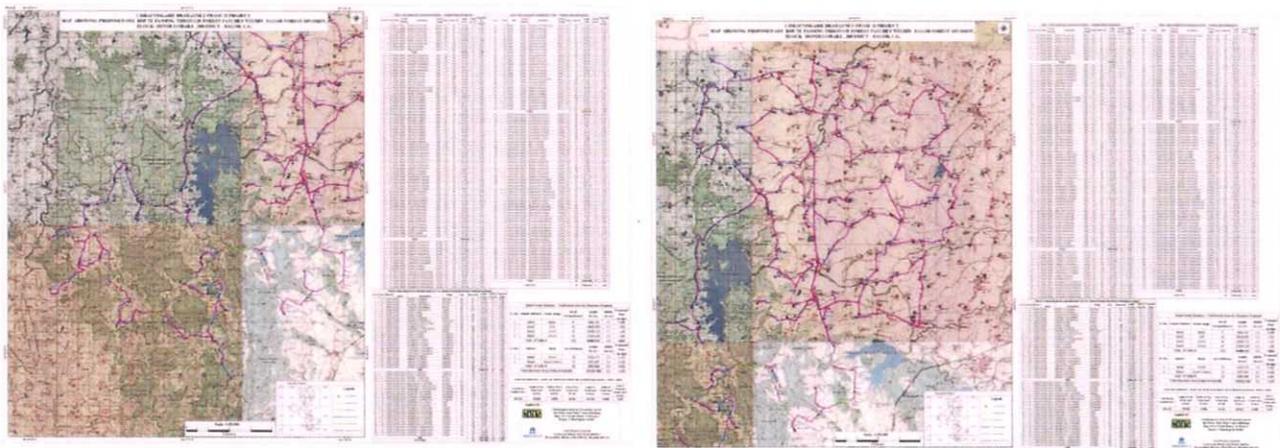
Geo-Referenced Maps of Forest Patched with in Balod Forest Division

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



Geo-Referenced Toposheet Map of Forest Patched of Dondi Block in Balod Forest Division.



Geo-Referenced Toposheet Map of Forest Patched of Dondi Lohara (Part-1 and Part-2) Block in Balod Forest Division.

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