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क्रमांक/तक.अधि./२६६३
प्रति,

पेण्डारोड, दिनांक/१/१०/२०१९


प्राधिकृत अधिकारी
टाटा प्रोजेक्ट्स लिमिटेड
रायपुर (छ.ग.)

विषय :- भारत सरकार की महत्वपूर्ण योजना "भारतनेट प्रोजेक्ट (A Part of Digital India)" के सफल क्रियान्वयन हेतु बिलासपुर जिला के मरवाही वनमण्डल अंतर्गत मरवाही ब्लॉक के अंतर्गत शामिल ग्राम पंचायत के मार्ग समानान्तर 1.825 हे. वनभूमि एवं 0.103 हे. राजस्व वनभूमि कुल रकबा 1.928 हे. 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 कार्यालयीन पत्र क्र./भानेप्रो/ओएफसी/वनभूमि/प्रस्ताव/२०१९-२०/१० रायपुर दिनांक ३०.०९.२०१९

विषयांतर्गत संदर्भित पत्र के माध्यम से आपके द्वारा मरवाही वनमण्डल के मरवाही ब्लॉक अंतर्गत शामिल ग्राम पंचायत के मार्ग समानान्तर 1.825 हे. वनभूमि एवं 0.103 हे. राजस्व वनभूमि कुल रकबा 1.928 हे. का डी.जी.पी.एस. सर्वे रिपोर्ट (kml & Shape file with CD) दो प्रतियों में सत्यापन हेतु प्रस्तुत किया गया है, जिसका सत्यापन उपरांत एक प्रति मूलतः आपको वन संरक्षण अधिनियम १९८० के अंतर्गत प्रस्ताव का Online पंजीयन कराने हेतु प्रेषित किया जा रहा है।

संलग्न :- उपरोक्तानुसार।


वनमण्डलाधिकारी
मरवाही वनमण्डल पेण्डारोड

CHHATTISGARH BHARATNET PHASE-II PROJECT

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

Forest Division : MARWAHI
Forest Land (RF/PF/OA) : 1.825 Ha.
Rev. Forest Land : 0.103 Ha.
Total Proposed Diversion Area : 1.928 Ha.
Block : MARWAHI
District : BILASPUR (C.G.)

Applicant -



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

Submitted By -

[Signature]
Divisional Forest Officer
Marwahi Division Pendra Road



TATA PROJECTS

Tata Projects Limited, Raipur (Chhattisgarh)



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1. Introduction and Background

1.1. Background

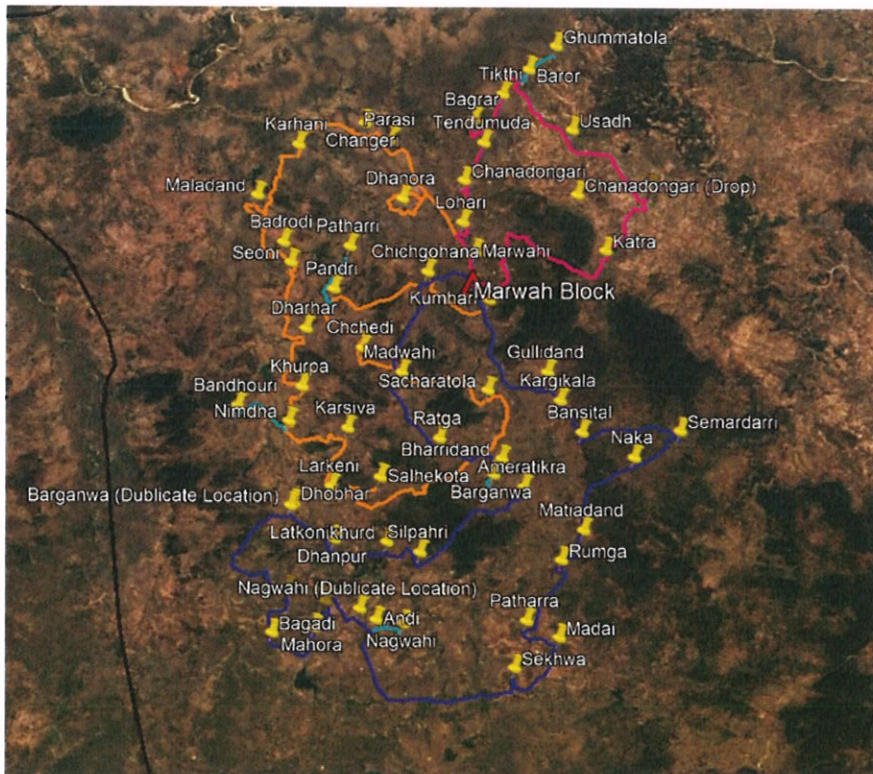
The Government of Chhattisgarh intends to setup an Optical Fibre Cable Network from the Block Head Quarters to Gram Panchayats to provide high speed broadband connectivity by connecting the 85 Blocks, 5987 Gram Panchayats across the State. The proposed network architecture for BharatNet Phase-II project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



OFC Cable Proposed Routes in Marwahi Block in Bilaspur Forest Division.

1.3. Location

The proposed OFC Cable route in Marwahi Forest Division (The OFC route Marwahi; District: Bilaspur). The Proposed OFC route length is approx. 268.924 in Marwahi Block, hence Total route length is 268.924 km. The survey site passes through forest ranges Marwahi of Bilaspur Forest Division. The OFC Cable route is covered under Survey of India Toposheets 64E16, 64F13, 64I04, and 64J01 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 Point 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

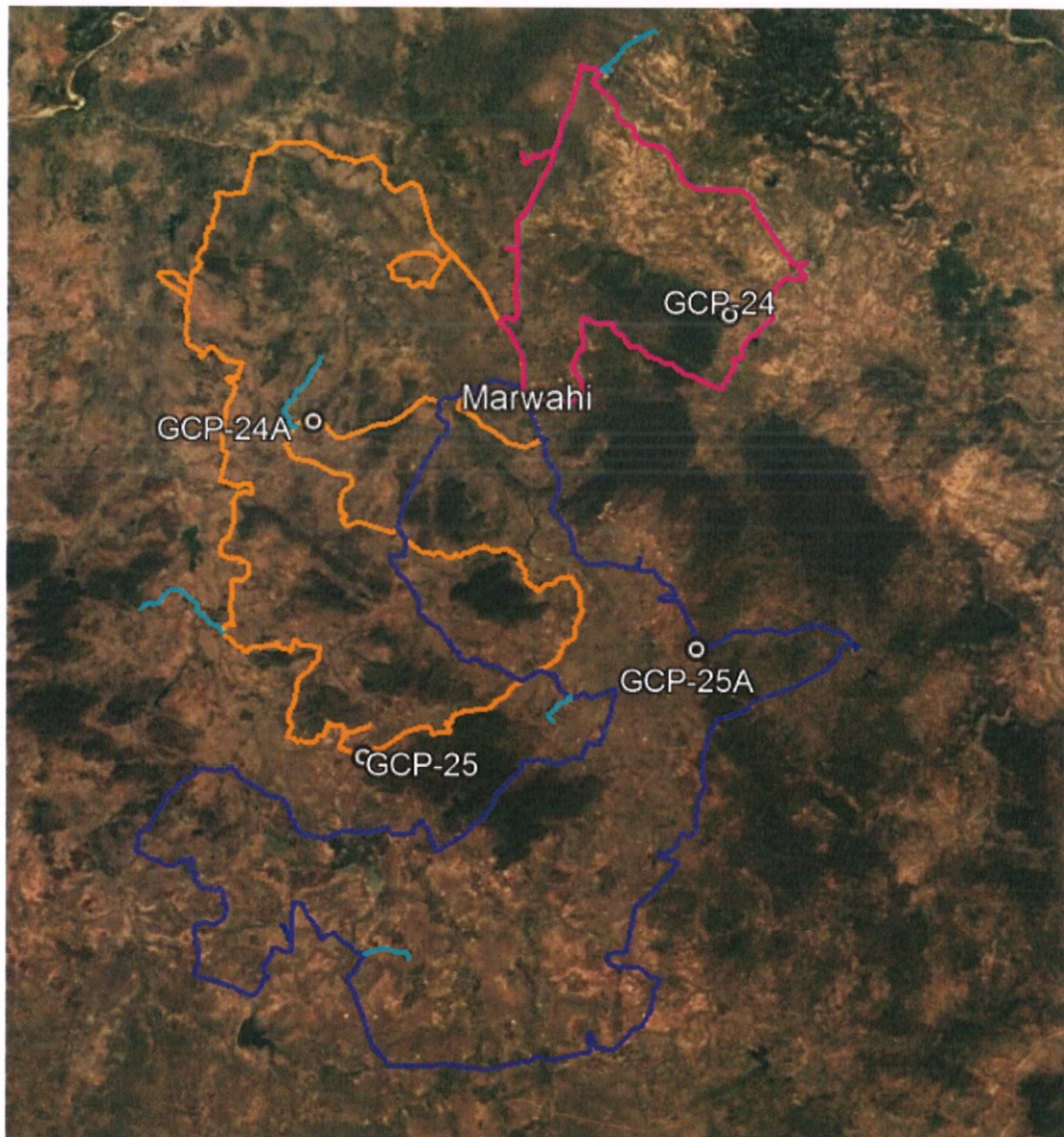
The deliverables envisaged for the assignment are described below -

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: 07/31/2019 19:07:29

Project Details

General		Customer Details		Master Coordinate System	
Project Name:	CHIPS	Customer Name:	-	Coordinate System Name:	UTM44N
Owner:	GENESYS INTERNATIONAL CORPORATION LIMITED	Contact Person:	-	Transformation Type:	Classical 3D
Lead Surveyor:	-	Number:	-	Residual Distribution:	None
Date Created:	07/31/2019 14:21:05	Email:	-	Ellipsoid:	WGS 1984
Last Accessed:	07/31/2019 14:21:05	Skype:	-	Projection Type:	UTM
Application Software:	Infinity 2.1	Website:	-	Geoid Model:	EGM_2008
		CSCS Model:	-		
Path:	D:\INFINITY PROJECTS\CHIPS\CHIPSipj				
Size:	5,196.1 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/Belidou	GPS/GLONASS/Belidou	
Ephemeris Type:	Broadcast	Broadcast	
Antenna Calibration Set:	Leica Relative	Leica Relative	
Processing Strategy			
Solution Type:	Phase Fixed	Navigated	
Solution Optimisation:	Automatic	None	
Frequency to use in Ionospheric Model:	Automatic	Automatic	
Topographic Model:	VMF with GPT2 model	VMF with GPT2 model	
Ionospheric Model:	Automatic	Computed	
Allow Wideline Fix:	Automatic	No	
General Settings			
Min. Distance for Ionospheric Model:	15 km		
Possible Ambiguities Fix up to:	300 km		
Min. Duration for Float Solution (static):	00:05:00		

Results SPP Point: 9453Base_1

Acquisition

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 Duration: 08:09:46

Antenna

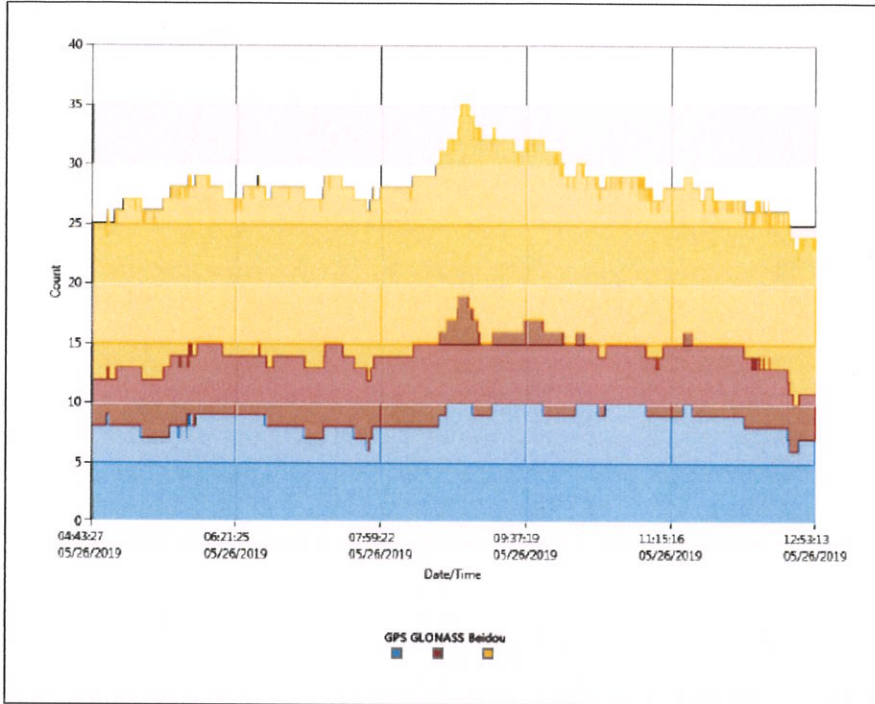
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 Antenna Name / SN: LEI6516 / -
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 Height Reading: 1.1500 m
 Antenna Height: 1.5100 m

Chhattisgarh BharatNet Phase-II Project

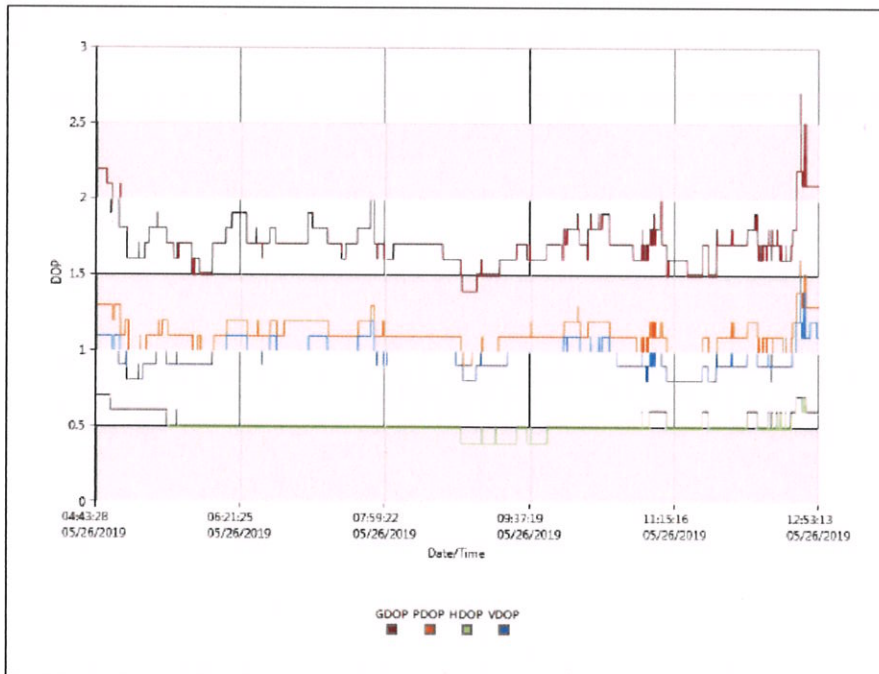
Processing Info (05/26/2019 04:43:28 - 05/26/2019 12:53:14)

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

SVs Tracked



DOP



List of GCP's -

Sr.No	District	GCP No.	Latitude (D:M:S)	Longitude(D:M:S)	Easting	Northing
1	Bilaspur	GCP-24	N23°01'38.50733"	E82°07'06.47473"	614604	2546986
2	Bilaspur	GCP-24A	N22°59'47.95217"	E81°59'21.38101"	601388.2	2543491
3	Bilaspur	GCP-25	N22°54'03.72923"	E82°00'17.64261"	603062.4	2532916
4	Bilaspur	GCP-25A	N22°55'54.49708"	E82°06'29.64808"	613635.6	2536399

4.2. Mobile LiDAR (DGPS) data collection:

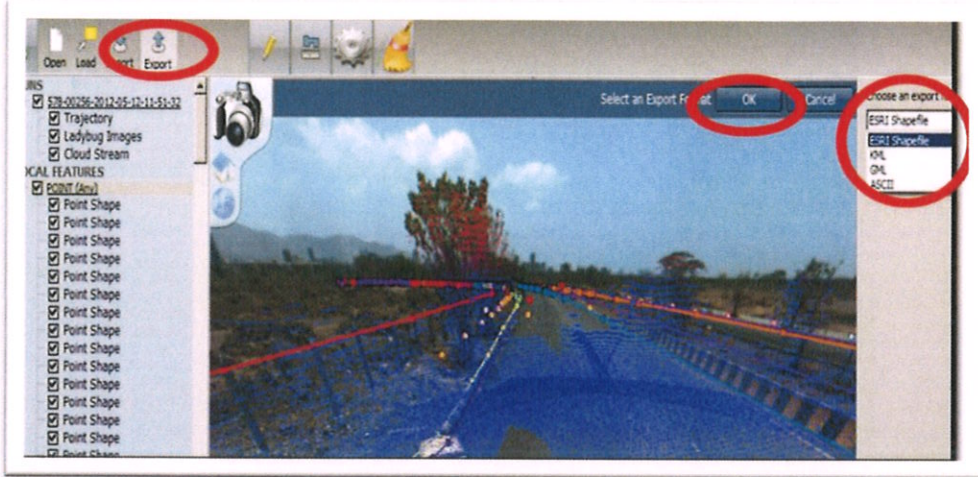
DGPS based Mobile LiDAR data was collected along with 360 degree panoramic view of the OFC route corridor (25 meter on each side along the center of the road).



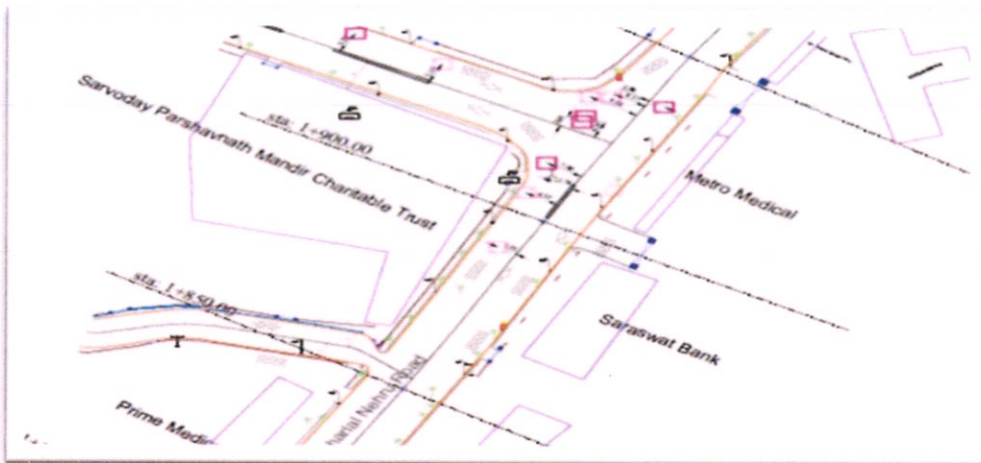
Mobile LiDAR Van

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



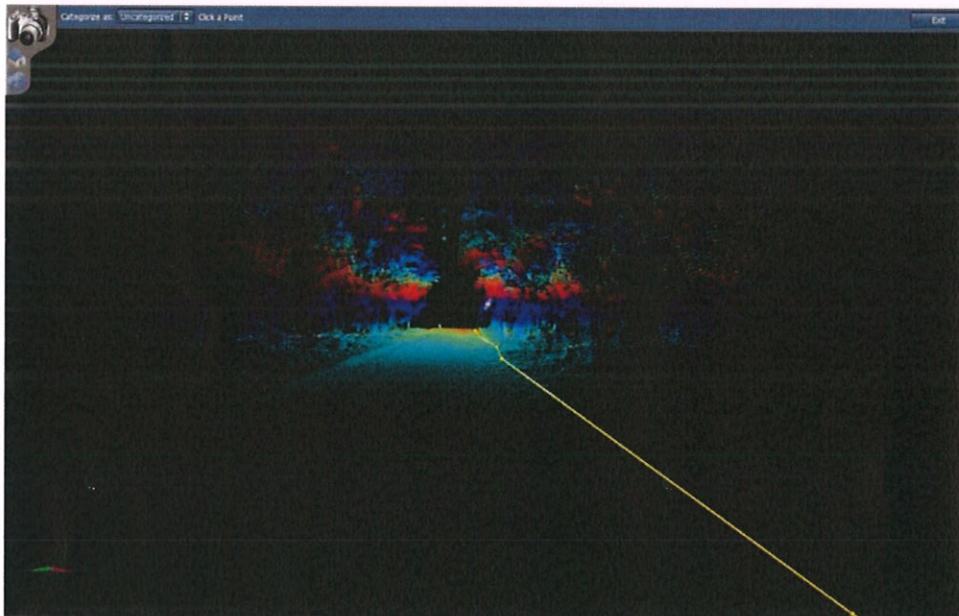
Final DRS / GIS Map

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.



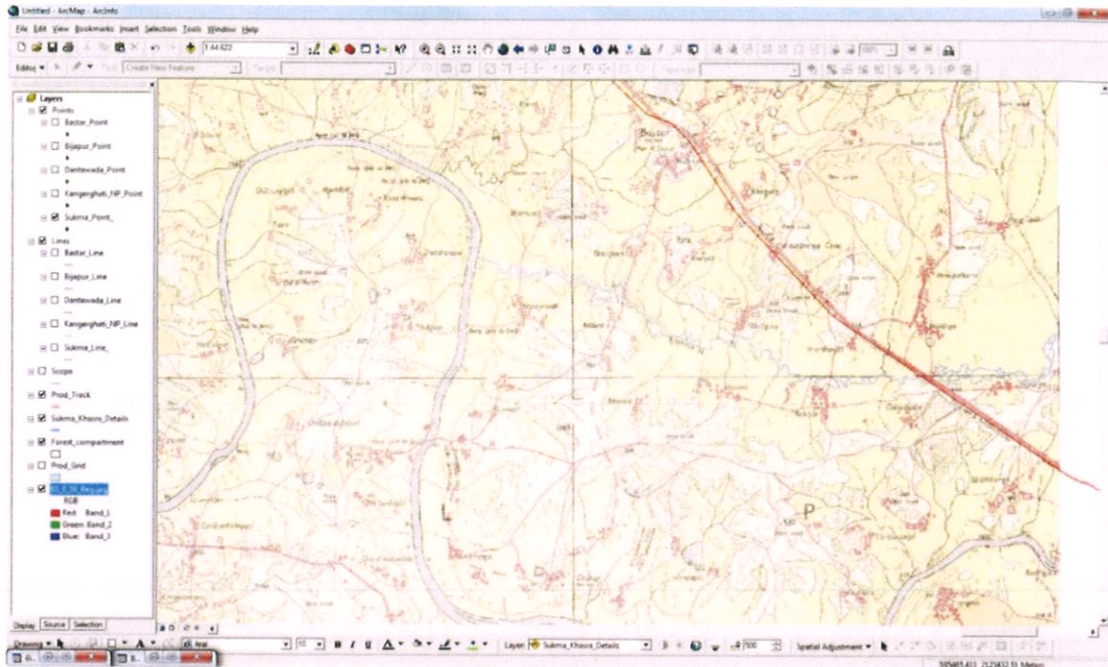
Proposed OFC Line on LiDAR Data (with Panoramic Imagery)



Proposed OFC Line on LiDAR Data only

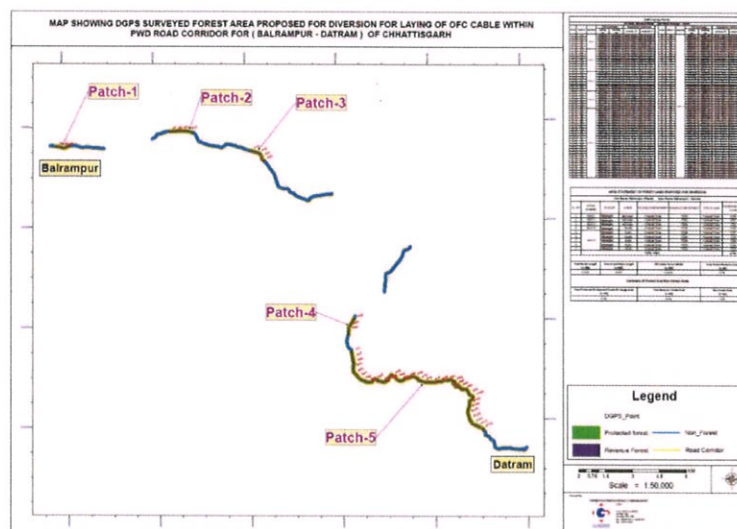
4.5. Geo-referencing of Maps:

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)



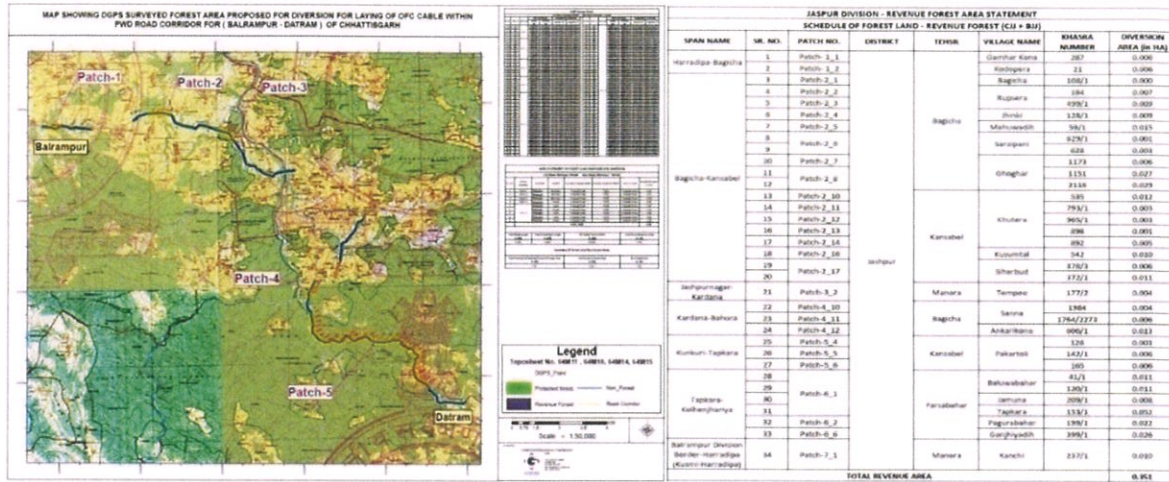
4.6. Creation of Vector Data for Forest Diversion:

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. 268.924 km. covered Marwahi block of Bilaspur District, out of this 230.366 km OFC route length is passing through non-forest land and 38.558 km OFC route length is passing through Forest Patches hence the proposed forest area for diversion is 1.928 Ha. Forest Area Statement Report is in Annexure-1, and DGPS coordinates and forest patches coordinates is in Annexure-2. The geo-referenced maps are in Annexure -3.

5.1. Forest Area Statement (Annexure-1)

Forest Area Statement –Marwahi Block with in Marwahi Forest Division, District - Bilaspur						
Total Route Length (in K.M.)	Length of Non- Forest Land (in K.M)	Width of Non Forest Land (in K.M)	Area of Non- Forest Land (in Ha.)	Length of Forest Land (in K.M.)	Width of Forest Land (in K.M.)	Area of Proposed Forest Land (in Ha.)
268.924	230.366	0.0005	11.518	38.558	0.0005	1.928

Sl. No.	Forest Division	Forest range	No of Compartment	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
1	Marwahi	Marwahi	49	36500.755	0.5	1.825
Total of Table A			49	36500.755	0.5	1.825
Sl. No.	District	Block	No of Khasra	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
1	Bilaspur	Marwahi	8	2057.376	0.5	0.103
Total of Table B			8	2057.376	0.5	0.103
Total Diversion Area (Table A+TableB)				38558.131	0.5	1.928

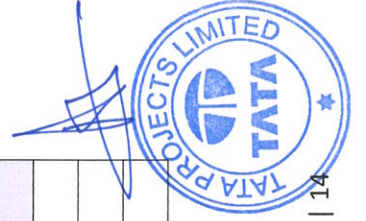


Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
1	25	Marwahi	Marwahi	Bagadi To Dhobhar	Marwahi	PF	1973	1270.243	0.5	0.064
2	26	Marwahi	Marwahi	Bagadi To Dhobhar	Marwahi	PF	1974	331.526	0.5	0.017
3	27	Marwahi	Marwahi	Bagadi To Dhobhar	Marwahi	PF	1976	1022.078	0.5	0.051
4	37	Marwahi	Marwahi	Bagadi To Dhobhar	Marwahi	PF	1961	1275.688	0.5	0.064
5	38	Marwahi	Marwahi	Bagadi To Dhobhar	Marwahi	PF	1960	417.243	0.5	0.021
6	49	Marwahi	Marwahi	Bagadi To Dhobhar	Marwahi	PF	1974	223.525	0.5	0.011
7	22	Marwahi	Marwahi	Bandhoura To Nimdha	Marwahi	PF	2059	585.779	0.5	0.029
8	24	Marwahi	Marwahi	Chichoghana To Madwahi	Marwahi	PF	2049	272.810	0.5	0.014
9	30	Marwahi	Marwahi	Chichoghana To Madwahi	Marwahi	PF	2050	89.290	0.5	0.005
10	36	Marwahi	Marwahi	Dhobhar To Ameratikra	Marwahi	PF	1971	217.175	0.5	0.011
11	40	Marwahi	Marwahi	Dhobhar To Ameratikra	Marwahi	PF	1967	231.961	0.5	0.012
12	42	Marwahi	Marwahi	Dhobhar To Ameratikra	Marwahi	PF	1995	820.541	0.5	0.041
13	43	Marwahi	Marwahi	Dhobhar To Ameratikra	Marwahi	PF	1996	730.144	0.5	0.037
14	44	Marwahi	Marwahi	Dhobhar To Ameratikra	Marwahi	PF	1993	241.866	0.5	0.012
15	46	Marwahi	Marwahi	Dhobhar To Ameratikra	Marwahi	PF	1994	84.455	0.5	0.004
16	47	Marwahi	Marwahi	Dhobhar To Ameratikra	Marwahi	PF	1968	284.435	0.5	0.014
17	12	Marwahi	Marwahi	Karsiva To Nimdha	Marwahi	PF	2067	1127.135	0.5	0.056



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18	10	Marwahi	Marwahi	Marwahi	Marwahi	Khurpa To Seoni	Marwahi	Marwahi	PF	1984	373.618	0.5	0.019
19	11	Marwahi	Marwahi	Marwahi	Marwahi	Khurpa To Seoni	Marwahi	Marwahi	PF	2066	567.829	0.5	0.028
20	13	Marwahi	Marwahi	Marwahi	Marwahi	Khurpa To Seoni	Marwahi	Marwahi	PF	2062	238.490	0.5	0.012
21	16	Marwahi	Marwahi	Marwahi	Marwahi	Khurpa To Seoni	Marwahi	Marwahi	PF	1985	817.715	0.5	0.041
22	31	Marwahi	Marwahi	Marwahi	Marwahi	Kumhari To Kargikala	Marwahi	Marwahi	PF	2024	854.619	0.5	0.042
23	32	Marwahi	Marwahi	Marwahi	Marwahi	Kumhari To Kargikala	Marwahi	Marwahi	PF	2057	108.907	0.5	0.005
24	33	Marwahi	Marwahi	Marwahi	Marwahi	Kumhari To Kargikala	Marwahi	Marwahi	PF	2026	315.005	0.5	0.016
25	29	Marwahi	Marwahi	Marwahi	Marwahi	Madai To Patharra	Marwahi	Marwahi	PF	2092	1116.606	0.5	0.055
26	41	Marwahi	Marwahi	Marwahi	Marwahi	Madwahi To Ratga	Marwahi	Marwahi	PF	2063	747.223	0.5	0.037
27	9	Marwahi	Marwahi	Marwahi	Marwahi	Maladand To Karhani	Marwahi	Marwahi	PF	2039	503.592	0.5	0.025
28	1	Marwahi	Marwahi	Marwahi	Marwahi	Mavahi Tehsil To Katra	Marwahi	Marwahi	PF	2080	258.595	0.5	0.013
29	2	Marwahi	Marwahi	Marwahi	Marwahi	Mavahi Tehsil To Katra	Marwahi	Marwahi	PF	2077	919.782	0.5	0.046
30	3	Marwahi	Marwahi	Marwahi	Marwahi	Mavahi Tehsil To Katra	Marwahi	Marwahi	PF	2082	413.994	0.5	0.021
31	4	Marwahi	Marwahi	Marwahi	Marwahi	Mavahi Tehsil To Katra	Marwahi	Marwahi	PF	2027	1901.561	0.5	0.095
32	28	Marwahi	Marwahi	Marwahi	Marwahi	Mavahi Tehsil To Naka	Marwahi	Marwahi	PF	2089	729.844	0.5	0.037
33	34	Marwahi	Marwahi	Marwahi	Marwahi	Mavahi Tehsil To Naka	Marwahi	Marwahi	PF	2005	2016.642	0.5	0.101
34	35	Marwahi	Marwahi	Marwahi	Marwahi	Mavahi Tehsil To Naka	Marwahi	Marwahi	PF	2004	1015.043	0.5	0.051
35	23	Marwahi	Marwahi	Marwahi	Marwahi	Patharri To Pandri	Marwahi	Marwahi	PF	2043	442.378	0.5	0.022
36	7	Marwahi	Marwahi	Marwahi	Marwahi	Ratga To Larkeni	Marwahi	Marwahi	PF	1992	679.580	0.5	0.034
37	14	Marwahi	Marwahi	Marwahi	Marwahi	Ratga To Larkeni	Marwahi	Marwahi	PF	1990	1807.652	0.5	0.090
38	17	Marwahi	Marwahi	Marwahi	Marwahi	Ratga To Larkeni	Marwahi	Marwahi	PF	1987	1302.256	0.5	0.065



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39	21	Marwahi	Marwahi	Marwahi	Ratga To Larkeni	Marwahi	1987	846.146	0.5	0.042
40	39	Marwahi	Marwahi	Marwahi	Ratga To Larkeni	Marwahi	2058	233.295	0.5	0.012
41	45	Marwahi	Marwahi	Marwahi	Rumga To Patharra	Marwahi	2007	1605.257	0.5	0.080
42	5	Marwahi	Marwahi	Marwahi	Sacharatola To Pandri	Marwahi	2061	915.288	0.5	0.046
43	6	Marwahi	Marwahi	Marwahi	Sacharatola To Pandri	Marwahi	2049	633.157	0.5	0.032
44	8	Marwahi	Marwahi	Marwahi	Sacharatola To Pandri	Marwahi	2052	597.425	0.5	0.030
45	15	Marwahi	Marwahi	Marwahi	Sacharatola To Pandri	Marwahi	2054	533.801	0.5	0.027
46	18	Marwahi	Marwahi	Marwahi	Sacharatola To Pandri	Marwahi	2063	264.457	0.5	0.013
47	19	Marwahi	Marwahi	Marwahi	Sacharatola To Pandri	Marwahi	2048	2924.777	0.5	0.146
48	20	Marwahi	Marwahi	Marwahi	Sacharatola To Pandri	Marwahi	2047	1057.700	0.5	0.052
49	48	Marwahi	Marwahi	Marwahi	Sacharatola To Pandri	Marwahi	2048	532.627	0.5	0.027
Total-							49	36500.755	0.5	1.825



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Marwahi Division Pendra Road

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.)
6	55	Bilaspur	Marwahi	Bagadi To Dhobhar	Bagdi	BJJ	254	100.595	0.5	0.005	
7	56	Bilaspur	Marwahi	Bagadi To Dhobhar	Masurikhar	BJJ	358/1	116.304	0.5	0.006	
8	57	Bilaspur	Marwahi	Bagadi To Dongriya	Bagdi	BJJ	438	222.522	0.5	0.011	
1	50	Bilaspur	Marwahi	Bansital To Naka	Danikundi	BJJ	10/1	1199.215	0.5	0.060	
4	53	Bilaspur	Marwahi	Matiadand To Naka	Matiyadand	BJJ	179	83.092	0.5	0.004	
5	54	Bilaspur	Marwahi	Mavahi To Kumhari	Kumhari	BJJ	212	119.207	0.5	0.006	
3	52	Bilaspur	Marwahi	Sekhwa To Madai	Sekhwa	BJJ	1439/1	82.187	0.5	0.004	
2	51	Bilaspur	Marwahi	Seoni To Dharhar	Seoni	BJJ	1377	134.254	0.5	0.007	
Total-							8	2057.376	0.5	0.103	



M. R. Mishra
Divisional Forest Officer
 Marwahi Division, Pendra Road

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

Point	Patch	Longitud in D:M:S	Latitud i D:M:S	Point	Patch	Longitud in D:M:S	Latitud i D:M:S
P-1	1	82° 4' 9.897"	23° 0' 8.707"	P-51	5	81° 58' 50.579"	22° 59' 24.941"
P-2	1	82° 4' 12.941"	23° 0' 10.291"	P-52	5	81° 58' 51.544"	22° 59' 28.022"
P-3	1	82° 4' 15.380"	23° 0' 12.604"	P-53	5	81° 58' 51.812"	22° 59' 28.415"
P-4	1	82° 4' 16.666"	23° 0' 14.092"	P-54	6	81° 59' 53.584"	22° 58' 33.620"
P-5	2	82° 4' 54.718"	23° 1' 22.767"	P-55	6	81° 59' 56.095"	22° 58' 35.879"
P-6	2	82° 4' 56.742"	23° 1' 20.117"	P-56	6	81° 59' 58.950"	22° 58' 37.772"
P-7	2	82° 4' 59.280"	23° 1' 17.934"	P-57	6	82° 0' 1.627"	22° 58' 39.865"
P-8	2	82° 5' 2.412"	23° 1' 16.468"	P-58	6	82° 0' 2.850"	22° 58' 42.846"
P-9	2	82° 5' 5.517"	23° 1' 15.005"	P-59	6	82° 0' 3.068"	22° 58' 46.092"
P-10	2	82° 5' 7.341"	23° 1' 12.228"	P-60	6	82° 0' 1.482"	22° 58' 48.824"
P-11	2	82° 5' 9.219"	23° 1' 9.480"	P-61	6	82° 0' 0.710"	22° 58' 49.631"
P-12	2	82° 5' 10.884"	23° 1' 6.622"	P-62	7	82° 2' 34.878"	22° 54' 52.163"
P-13	2	82° 5' 13.615"	23° 1' 4.709"	P-63	7	82° 1' 53.388"	22° 54' 38.222"
P-14	2	82° 5' 16.902"	23° 1' 3.596"	P-64	7	82° 1' 55.092"	22° 54' 40.268"
P-15	2	82° 5' 17.585"	23° 1' 3.488"	P-65	7	82° 1' 55.285"	22° 54' 43.506"
P-16	3	82° 4' 16.692"	23° 0' 14.123"	P-66	7	82° 1' 58.125"	22° 54' 45.410"
P-17	3	82° 4' 19.102"	23° 0' 16.478"	P-67	7	82° 2' 1.339"	22° 54' 46.496"
P-18	3	82° 4' 20.095"	23° 0' 19.518"	P-68	7	82° 2' 4.695"	22° 54' 47.441"
P-19	3	82° 4' 19.350"	23° 0' 22.695"	P-69	7	82° 2' 7.307"	22° 54' 48.348"
P-20	3	82° 4' 18.649"	23° 0' 25.881"	P-70	8	82° 2' 29.553"	22° 57' 38.172"
P-21	3	82° 4' 18.563"	23° 0' 26.329"	P-71	8	82° 2' 26.597"	22° 57' 36.788"
P-22	4	82° 5' 34.130"	23° 0' 54.392"	P-72	8	82° 2' 23.110"	22° 57' 36.458"
P-23	4	82° 5' 37.515"	23° 0' 53.523"	P-73	8	82° 2' 12.111"	22° 57' 32.552"
P-24	4	82° 5' 40.861"	23° 0' 52.541"	P-74	8	82° 2' 8.986"	22° 57' 31.816"
P-25	4	82° 5' 44.161"	23° 0' 51.425"	P-75	8	82° 2' 6.279"	22° 57' 30.324"
P-26	4	82° 5' 47.442"	23° 0' 50.273"	P-76	8	82° 2' 3.512"	22° 57' 29.025"
P-27	4	82° 5' 50.189"	23° 0' 48.259"	P-77	9	81° 57' 14.262"	23° 2' 42.010"
P-28	4	82° 5' 53.369"	23° 0' 47.247"	P-78	9	81° 57' 12.278"	23° 2' 39.354"
P-29	4	82° 5' 56.879"	23° 0' 47.385"	P-79	9	81° 57' 11.061"	23° 2' 36.309"
P-30	4	82° 6' 0.080"	23° 0' 46.457"	P-80	9	81° 57' 10.284"	23° 2' 33.158"
P-31	4	82° 6' 2.772"	23° 0' 44.369"	P-81	9	81° 57' 11.179"	23° 2' 30.082"
P-32	4	82° 6' 5.565"	23° 0' 42.397"	P-82	9	81° 57' 13.993"	23° 2' 28.878"
P-33	4	82° 6' 8.366"	23° 0' 40.435"	P-83	9	81° 57' 14.005"	23° 2' 28.762"
P-34	4	82° 6' 11.122"	23° 0' 38.420"	P-84	10	81° 57' 41.768"	22° 59' 5.442"
P-35	4	82° 6' 13.946"	23° 0' 36.489"	P-85	10	81° 57' 40.845"	22° 59' 2.308"
P-36	4	82° 6' 16.843"	23° 0' 34.651"	P-86	10	81° 57' 39.798"	22° 58' 59.204"
P-37	4	82° 6' 20.073"	23° 0' 34.130"	P-87	10	81° 57' 38.952"	22° 58' 56.050"



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P-38	4	82° 6' 23.342"	23° 0' 34.004"	P-88	10	81° 57' 38.384"	22° 58' 53.715"
P-39	4	82° 6' 26.272"	23° 0' 32.926"	P-89	11	81° 57' 37.717"	22° 57' 40.742"
P-40	4	82° 6' 29.365"	23° 0' 31.449"	P-90	11	81° 57' 36.594"	22° 57' 37.661"
P-41	4	82° 6' 32.405"	23° 0' 29.822"	P-91	11	81° 57' 35.709"	22° 57' 34.529"
P-42	4	82° 6' 32.454"	23° 0' 29.799"	P-92	11	81° 57' 36.060"	22° 57' 31.304"
P-43	5	81° 59' 4.117"	22° 59' 7.123"	P-93	11	81° 57' 37.714"	22° 57' 28.620"
P-44	5	81° 59' 0.690"	22° 59' 7.811"	P-94	11	81° 57' 48.724"	22° 57' 25.898"
P-45	5	81° 58' 57.434"	22° 59' 9.024"	P-95	11	81° 57' 50.996"	22° 57' 25.769"
P-46	5	81° 58' 54.931"	22° 59' 11.234"	P-96	12	81° 58' 22.804"	22° 55' 54.315"
P-47	5	81° 58' 53.345"	22° 59' 14.124"	P-97	12	81° 58' 26.060"	22° 55' 55.023"
P-48	5	81° 58' 51.965"	22° 59' 17.113"	P-98	12	81° 58' 28.582"	22° 55' 55.802"
P-49	5	81° 58' 50.237"	22° 59' 19.914"	P-99	12	81° 58' 31.930"	22° 55' 56.347"
P-50	5	81° 58' 48.831"	22° 59' 22.309"	P-100	12	81° 58' 35.400"	22° 55' 56.834"
P-101	12	81° 58' 38.766"	22° 55' 57.002"	P-151	17	81° 59' 29.237"	22° 54' 23.744"
P-102	12	81° 58' 41.049"	22° 55' 58.295"	P-152	17	81° 59' 32.673"	22° 54' 23.308"
P-103	12	81° 58' 42.116"	22° 55' 55.247"	P-153	17	81° 59' 33.849"	22° 54' 25.965"
P-104	12	81° 58' 45.025"	22° 55' 53.569"	P-154	17	81° 59' 34.463"	22° 54' 29.164"
P-105	12	81° 58' 48.415"	22° 55' 52.742"	P-155	17	81° 59' 35.541"	22° 54' 32.255"
P-106	12	81° 58' 51.784"	22° 55' 51.850"	P-156	17	81° 59' 37.813"	22° 54' 34.697"
P-107	12	81° 58' 54.703"	22° 55' 50.076"	P-157	17	81° 59' 40.591"	22° 54' 35.718"
P-108	12	81° 58' 55.600"	22° 55' 49.914"	P-158	17	81° 59' 43.635"	22° 54' 34.221"
P-109	13	81° 57' 52.529"	22° 58' 26.864"	P-159	17	81° 59' 47.000"	22° 54' 34.816"
P-110	13	81° 57' 50.904"	22° 58' 23.985"	P-160	17	81° 59' 54.376"	22° 54' 30.512"
P-111	13	81° 57' 50.443"	22° 58' 20.869"	P-161	17	81° 59' 56.386"	22° 54' 27.854"
P-112	13	81° 57' 50.516"	22° 58' 19.619"	P-162	17	81° 59' 59.677"	22° 54' 26.804"
P-113	14	82° 1' 30.723"	22° 54' 31.067"	P-163	17	81° 59' 57.185"	22° 54' 24.943"
P-114	14	82° 1' 31.885"	22° 54' 28.016"	P-164	17	81° 59' 57.117"	22° 54' 24.904"
P-115	14	82° 1' 33.711"	22° 54' 25.472"	P-165	18	82° 0' 14.491"	22° 58' 1.923"
P-116	14	82° 1' 36.971"	22° 54' 26.392"	P-166	18	82° 0' 11.064"	22° 58' 2.617"
P-117	14	82° 1' 39.498"	22° 54' 28.382"	P-167	18	82° 0' 7.583"	22° 58' 2.339"
P-118	14	82° 1' 42.931"	22° 54' 27.739"	P-168	18	82° 0' 5.475"	22° 58' 1.624"
P-119	14	82° 1' 46.414"	22° 54' 27.428"	P-169	19	82° 0' 10.053"	22° 59' 35.079"
P-120	14	82° 1' 49.923"	22° 54' 27.468"	P-170	19	82° 0' 13.390"	22° 59' 36.082"
P-121	14	82° 1' 52.357"	22° 54' 28.952"	P-171	19	82° 0' 16.576"	22° 59' 37.450"
P-122	14	82° 1' 51.346"	22° 54' 32.052"	P-172	19	82° 0' 19.762"	22° 59' 38.817"
P-123	14	82° 1' 48.969"	22° 54' 34.434"	P-173	19	82° 0' 22.949"	22° 59' 40.185"
P-124	14	82° 1' 48.252"	22° 54' 37.290"	P-174	19	82° 0' 26.148"	22° 59' 41.524"
P-125	14	82° 1' 51.494"	22° 54' 38.406"	P-175	19	82° 0' 29.483"	22° 59' 42.520"
P-126	14	82° 1' 9.560"	22° 54' 29.480"	P-176	19	82° 0' 32.955"	22° 59' 43.012"
P-127	14	82° 1' 12.906"	22° 54' 30.462"	P-177	19	82° 0' 36.426"	22° 59' 43.508"
P-128	14	82° 1' 16.278"	22° 54' 31.358"	P-178	19	82° 0' 39.899"	22° 59' 43.991"

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P-129	14	82° 1' 19.730"	22° 54' 31.928"	P-179	19	82° 0' 43.378"	22° 59' 44.437"
P-130	14	82° 1' 23.204"	22° 54' 32.390"	P-180	19	82° 0' 46.746"	22° 59' 45.231"
P-131	14	82° 1' 26.679"	22° 54' 32.852"	P-181	19	82° 0' 49.807"	22° 59' 46.825"
P-132	14	82° 1' 26.944"	22° 54' 32.887"	P-182	19	82° 0' 52.869"	22° 59' 48.419"
P-133	15	82° 3' 1.094"	22° 57' 32.590"	P-183	19	82° 0' 55.905"	22° 59' 50.053"
P-134	15	82° 2' 58.121"	22° 57' 34.304"	P-184	19	82° 0' 58.857"	22° 59' 51.814"
P-135	15	82° 2' 54.864"	22° 57' 35.341"	P-185	19	82° 1' 1.690"	22° 59' 53.729"
P-136	15	82° 2' 51.390"	22° 57' 35.049"	P-186	19	82° 1' 4.390"	22° 59' 55.807"
P-137	15	82° 2' 48.115"	22° 57' 33.915"	P-187	19	82° 1' 7.064"	22° 59' 57.916"
P-138	15	82° 3' 9.972"	22° 57' 25.600"	P-188	19	82° 1' 9.738"	23° 0' 0.024"
P-139	15	82° 3' 9.672"	22° 57' 26.663"	P-189	19	82° 1' 12.421"	23° 0' 2.123"
P-140	16	81° 57' 41.560"	22° 59' 52.095"	P-190	19	82° 1' 15.118"	23° 0' 4.206"
P-141	16	81° 57' 41.126"	22° 59' 48.868"	P-191	19	82° 1' 17.815"	23° 0' 6.288"
P-142	16	81° 57' 40.692"	22° 59' 45.642"	P-192	19	82° 1' 20.571"	23° 0' 8.303"
P-143	16	81° 57' 40.258"	22° 59' 42.415"	P-193	19	82° 1' 23.365"	23° 0' 10.274"
P-144	16	81° 57' 39.125"	22° 59' 34.217"	P-194	19	82° 1' 26.642"	23° 0' 10.198"
P-145	16	81° 57' 38.682"	22° 59' 31.016"	P-195	19	82° 1' 30.062"	23° 0' 9.456"
P-146	16	81° 57' 38.489"	22° 59' 27.769"	P-196	19	82° 1' 33.486"	23° 0' 8.731"
P-147	16	81° 57' 38.295"	22° 59' 24.522"	P-197	19	82° 1' 36.799"	23° 0' 7.796"
P-148	16	81° 57' 38.160"	22° 59' 21.273"	P-198	19	82° 1' 40.180"	23° 0' 7.367"
P-149	16	81° 57' 38.138"	22° 59' 20.698"	P-199	19	82° 1' 40.987"	23° 0' 7.668"
P-150	17	81° 59' 25.817"	22° 54' 23.421"	P-200	20	81° 59' 37.694"	22° 59' 37.028"
P-201	20	81° 59' 40.303"	22° 59' 34.852"	P-251	25	81° 56' 50.738"	22° 53' 33.379"
P-202	20	81° 59' 42.819"	22° 59' 32.584"	P-252	25	81° 56' 52.649"	22° 53' 34.792"
P-203	20	81° 59' 45.155"	22° 59' 30.167"	P-253	26	81° 56' 11.750"	22° 52' 21.669"
P-204	20	81° 59' 48.455"	22° 59' 29.368"	P-254	26	81° 56' 8.552"	22° 52' 22.988"
P-205	20	81° 59' 51.957"	22° 59' 29.157"	P-255	26	81° 56' 5.402"	22° 52' 24.406"
P-206	20	81° 59' 55.275"	22° 59' 30.190"	P-256	26	81° 56' 3.053"	22° 52' 26.816"
P-207	20	81° 59' 58.508"	22° 59' 31.461"	P-257	26	81° 56' 2.681"	22° 52' 27.741"
P-208	20	82° 0' 1.740"	22° 59' 32.733"	P-258	27	81° 56' 52.649"	22° 53' 34.792"
P-209	20	82° 0' 5.051"	22° 59' 33.812"	P-259	27	81° 56' 55.697"	22° 53' 36.404"
P-210	20	82° 0' 8.433"	22° 59' 34.686"	P-260	27	81° 56' 58.615"	22° 53' 38.211"
P-211	20	82° 0' 10.053"	22° 59' 35.079"	P-261	27	81° 57' 1.612"	22° 53' 39.900"
P-212	21	82° 0' 13.807"	22° 54' 30.832"	P-262	27	81° 57' 4.692"	22° 53' 41.453"
P-213	21	82° 0' 10.403"	22° 54' 30.061"	P-263	27	81° 57' 7.748"	22° 53' 43.035"
P-214	21	82° 0' 7.167"	22° 54' 28.821"	P-264	27	81° 57' 10.117"	22° 53' 45.291"
P-215	21	82° 0' 4.071"	22° 54' 27.298"	P-265	27	81° 57' 11.943"	22° 53' 47.971"
P-216	21	82° 0' 0.693"	22° 54' 26.813"	P-266	27	81° 57' 14.600"	22° 53' 49.961"
P-217	21	82° 0' 2.538"	22° 54' 26.519"	P-267	27	81° 57' 18.046"	22° 53' 49.415"
P-218	21	82° 0' 5.728"	22° 54' 27.754"	P-268	27	81° 57' 21.474"	22° 53' 48.717"
P-219	21	82° 0' 8.814"	22° 54' 29.299"	P-269	27	81° 57' 22.232"	22° 53' 48.569"

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P-220	21	82° 0' 12.131"	22° 54' 30.292"	P-270	28	82° 6' 38.369"	22° 54' 11.309"
P-221	21	82° 0' 13.712"	22° 54' 30.618"	P-271	28	82° 6' 36.905"	22° 54' 8.355"
P-222	22	81° 56' 59.341"	22° 56' 46.563"	P-272	28	82° 6' 35.531"	22° 54' 5.363"
P-223	22	81° 56' 56.670"	22° 56' 48.606"	P-273	28	82° 6' 34.261"	22° 54' 2.334"
P-224	22	81° 56' 16.566"	22° 56' 38.907"	P-274	28	82° 6' 34.144"	22° 53' 59.094"
P-225	22	81° 56' 13.511"	22° 56' 37.343"	P-275	28	82° 6' 34.082"	22° 53' 55.843"
P-226	22	81° 56' 10.367"	22° 56' 35.928"	P-276	28	82° 6' 34.079"	22° 53' 52.592"
P-227	22	81° 56' 8.452"	22° 56' 33.334"	P-277	28	82° 6' 34.106"	22° 53' 49.340"
P-228	22	81° 56' 7.880"	22° 56' 31.023"	P-278	28	82° 6' 34.113"	22° 53' 48.370"
P-229	23	81° 59' 17.484"	23° 0' 35.950"	P-279	29	82° 5' 11.782"	22° 50' 28.707"
P-230	23	81° 59' 19.134"	23° 0' 38.821"	P-280	29	82° 5' 15.280"	22° 50' 28.451"
P-231	23	81° 59' 20.841"	23° 0' 41.656"	P-281	29	82° 5' 18.778"	22° 50' 28.315"
P-232	23	81° 59' 23.203"	23° 0' 44.060"	P-282	29	82° 5' 22.232"	22° 50' 27.884"
P-233	23	81° 59' 25.667"	23° 0' 46.377"	P-283	29	82° 5' 25.602"	22° 50' 26.992"
P-234	23	81° 59' 26.582"	23° 0' 47.422"	P-284	29	82° 5' 28.439"	22° 50' 25.132"
P-235	24	82° 1' 11.512"	22° 58' 41.605"	P-285	29	82° 5' 30.705"	22° 50' 22.669"
P-236	24	82° 1' 13.112"	22° 58' 44.499"	P-286	29	82° 5' 33.140"	22° 50' 20.378"
P-237	24	82° 1' 1.314"	22° 58' 21.633"	P-287	29	82° 5' 36.126"	22° 50' 18.673"
P-238	24	82° 1' 2.141"	22° 58' 23.873"	P-288	29	82° 5' 39.594"	22° 50' 18.580"
P-239	25	81° 56' 25.146"	22° 53' 3.511"	P-289	29	82° 5' 42.998"	22° 50' 17.837"
P-240	25	81° 56' 27.524"	22° 53' 5.901"	P-290	29	82° 5' 46.406"	22° 50' 15.882"
P-241	25	81° 56' 29.660"	22° 53' 8.480"	P-291	29	82° 5' 46.481"	22° 50' 15.678"
P-242	25	81° 56' 31.632"	22° 53' 11.167"	P-292	30	82° 1' 0.359"	22° 58' 18.680"
P-243	25	81° 56' 33.453"	22° 53' 13.946"	P-293	30	82° 1' 1.256"	22° 58' 21.462"
P-244	25	81° 56' 34.777"	22° 53' 16.951"	P-294	31	82° 3' 50.883"	22° 58' 31.855"
P-245	25	81° 56' 36.034"	22° 53' 19.987"	P-295	31	82° 3' 49.780"	22° 58' 28.774"
P-246	25	81° 56' 37.771"	22° 53' 22.790"	P-296	31	82° 3' 48.589"	22° 58' 25.724"
P-247	25	81° 56' 40.350"	22° 53' 24.981"	P-297	31	82° 3' 47.210"	22° 58' 22.733"
P-248	25	81° 56' 43.281"	22° 53' 26.759"	P-298	31	82° 3' 45.708"	22° 58' 19.796"
P-249	25	81° 56' 46.263"	22° 53' 28.385"	P-299	31	82° 3' 45.779"	22° 58' 13.918"
P-250	25	81° 56' 48.373"	22° 53' 30.978"	P-300	31	82° 3' 48.118"	22° 58' 11.508"
P-301	31	82° 3' 50.930"	22° 58' 9.595"	P-351	37	81° 57' 43.540"	22° 51' 29.255"
P-302	31	82° 3' 54.035"	22° 58' 8.166"	P-352	37	81° 57' 42.264"	22° 51' 31.215"
P-303	31	82° 3' 54.603"	22° 58' 6.779"	P-353	37	81° 57' 40.629"	22° 51' 34.053"
P-304	32	82° 3' 53.095"	22° 58' 41.960"	P-354	37	81° 57' 40.306"	22° 51' 37.267"
P-305	32	82° 3' 53.316"	22° 58' 38.716"	P-355	37	81° 57' 40.255"	22° 51' 40.499"
P-306	32	82° 3' 53.311"	22° 58' 38.426"	P-356	37	81° 57' 39.224"	22° 51' 43.596"
P-307	33	82° 3' 38.010"	22° 59' 18.227"	P-357	37	81° 57' 37.395"	22° 51' 46.343"
P-308	33	82° 3' 37.715"	22° 59' 15.018"	P-358	37	81° 57' 34.500"	22° 51' 47.839"
P-309	33	82° 3' 38.456"	22° 59' 11.938"	P-359	37	81° 57' 42.295"	22° 51' 20.890"
P-310	33	82° 3' 39.907"	22° 59' 8.980"	P-360	37	81° 57' 43.129"	22° 51' 24.049"

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P-311	33	82° 3' 40.083"	22° 59' 8.520"	P-361	37	81° 57' 43.949"	22° 51' 27.210"
P-312	34	82° 7' 44.391"	22° 55' 4.049"	P-362	37	81° 57' 42.811"	22° 51' 29.461"
P-313	34	82° 7' 41.081"	22° 55' 2.968"	P-363	37	81° 57' 40.587"	22° 51' 30.737"
P-314	34	82° 7' 37.753"	22° 55' 1.935"	P-364	38	81° 57' 9.919"	22° 50' 55.048"
P-315	34	82° 7' 34.424"	22° 55' 0.904"	P-365	38	81° 57' 11.975"	22° 50' 38.657"
P-316	34	82° 7' 31.153"	22° 54' 59.744"	P-366	38	81° 57' 11.129"	22° 50' 26.731"
P-317	34	82° 7' 25.550"	22° 54' 52.672"	P-367	38	81° 57' 12.638"	22° 50' 29.663"
P-318	34	82° 7' 22.706"	22° 54' 50.899"	P-368	38	81° 57' 11.983"	22° 50' 32.643"
P-319	34	82° 7' 19.432"	22° 54' 49.726"	P-369	38	81° 57' 11.809"	22° 50' 33.168"
P-320	34	82° 7' 16.155"	22° 54' 48.562"	P-370	39	82° 2' 51.687"	22° 55' 30.904"
P-321	34	82° 7' 12.863"	22° 54' 47.433"	P-371	39	82° 2' 48.764"	22° 55' 32.704"
P-322	34	82° 7' 9.572"	22° 54' 46.303"	P-372	39	82° 2' 45.792"	22° 55' 34.420"
P-323	34	82° 7' 6.240"	22° 54' 45.285"	P-373	39	82° 2' 44.691"	22° 55' 34.780"
P-324	34	82° 7' 2.890"	22° 54' 44.315"	P-374	40	81° 59' 38.270"	22° 52' 40.599"
P-325	34	82° 6' 59.537"	22° 54' 43.355"	P-375	40	81° 59' 41.570"	22° 52' 41.707"
P-326	34	82° 6' 56.127"	22° 54' 42.585"	P-376	40	81° 59' 44.822"	22° 52' 42.923"
P-327	34	82° 6' 52.717"	22° 54' 41.813"	P-377	40	81° 59' 45.804"	22° 52' 43.353"
P-328	34	82° 6' 50.820"	22° 54' 39.371"	P-378	41	82° 0' 49.920"	22° 57' 18.253"
P-329	34	82° 6' 49.019"	22° 54' 36.590"	P-379	41	82° 0' 46.984"	22° 57' 19.845"
P-330	34	82° 6' 47.089"	22° 54' 33.875"	P-380	41	82° 1' 14.380"	22° 56' 47.524"
P-331	34	82° 6' 45.123"	22° 54' 31.181"	P-381	41	82° 1' 12.554"	22° 56' 50.292"
P-332	34	82° 6' 43.158"	22° 54' 28.487"	P-382	41	82° 1' 10.316"	22° 56' 52.787"
P-333	34	82° 6' 42.831"	22° 54' 28.039"	P-383	41	82° 1' 8.430"	22° 56' 55.528"
P-334	35	82° 6' 42.831"	22° 54' 28.039"	P-384	41	82° 1' 6.586"	22° 56' 58.292"
P-335	35	82° 6' 41.492"	22° 54' 25.045"	P-385	41	82° 1' 4.808"	22° 57' 1.087"
P-336	35	82° 6' 40.409"	22° 54' 21.952"	P-386	41	82° 1' 3.861"	22° 57' 2.345"
P-337	35	82° 6' 39.588"	22° 54' 18.798"	P-387	42	82° 2' 33.853"	22° 53' 5.719"
P-338	35	82° 6' 39.236"	22° 54' 15.566"	P-388	42	82° 2' 36.033"	22° 53' 8.265"
P-339	35	82° 6' 38.807"	22° 54' 12.340"	P-389	42	82° 2' 38.106"	22° 53' 10.884"
P-340	35	82° 6' 34.131"	22° 53' 46.234"	P-390	42	82° 2' 18.257"	22° 52' 54.474"
P-341	35	82° 6' 34.193"	22° 53' 42.986"	P-391	42	82° 2' 21.369"	22° 52' 55.800"
P-342	35	82° 6' 35.333"	22° 53' 39.929"	P-392	42	82° 2' 24.686"	22° 52' 56.783"
P-343	35	82° 6' 36.765"	22° 53' 36.960"	P-393	42	82° 2' 27.951"	22° 52' 57.908"
P-344	35	82° 6' 38.238"	22° 53' 34.009"	P-394	42	82° 2' 29.163"	22° 53' 0.921"
P-345	35	82° 6' 38.387"	22° 53' 33.547"	P-395	42	82° 2' 31.360"	22° 53' 3.359"
P-346	36	81° 58' 44.474"	22° 53' 19.637"	P-396	42	82° 2' 31.961"	22° 53' 3.728"
P-347	36	81° 59' 0.653"	22° 52' 54.273"	P-397	43	82° 2' 38.442"	22° 53' 12.790"
P-348	36	81° 58' 59.899"	22° 52' 52.290"	P-398	43	82° 2' 40.142"	22° 53' 15.565"
P-349	36	81° 58' 59.620"	22° 52' 51.800"	P-399	43	82° 2' 42.607"	22° 53' 17.639"
P-350	37	81° 57' 40.538"	22° 51' 30.930"	P-400	43	82° 2' 43.088"	22° 53' 20.470"
P-401	43	82° 2' 43.401"	22° 53' 23.673"				

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P-402	43	82° 2' 45.060"	22° 53' 26.370"	P-443	49	81° 56' 13.273"	22° 52' 47.301"
P-403	43	82° 2' 47.876"	22° 53' 28.242"	P-444	49	81° 56' 14.070"	22° 52' 47.502"
P-404	43	82° 2' 50.870"	22° 53' 29.877"	P-445	50	82° 6' 28.378"	22° 55' 48.430"
P-405	43	82° 2' 51.599"	22° 53' 30.540"	P-446	50	82° 6' 30.700"	22° 55' 50.351"
P-406	44	82° 3' 20.919"	22° 53' 58.373"	P-447	50	82° 6' 30.305"	22° 55' 53.582"
P-407	44	82° 3' 24.365"	22° 53' 58.675"	P-448	50	82° 6' 32.963"	22° 55' 54.624"
P-408	44	82° 3' 27.813"	22° 53' 59.100"	P-449	50	82° 6' 36.452"	22° 55' 54.984"
P-409	44	82° 3' 29.173"	22° 53' 59.549"	P-450	50	82° 6' 39.921"	22° 55' 55.467"
P-410	45	82° 6' 4.777"	22° 52' 10.781"	P-451	50	82° 6' 43.266"	22° 55' 56.449"
P-411	45	82° 6' 2.476"	22° 52' 8.326"	P-452	50	82° 6' 46.597"	22° 55' 57.474"
P-412	45	82° 6' 0.110"	22° 52' 5.925"	P-453	50	82° 6' 49.915"	22° 55' 58.535"
P-413	45	82° 5' 57.736"	22° 52' 3.530"	P-454	50	82° 6' 53.035"	22° 56' 0.000"
P-414	45	82° 5' 55.363"	22° 52' 1.135"	P-455	50	82° 6' 30.194"	22° 55' 51.491"
P-415	45	82° 5' 52.990"	22° 51' 58.740"	P-456	50	82° 6' 28.670"	22° 55' 49.266"
P-416	45	82° 5' 50.583"	22° 51' 56.374"	P-457	50	82° 6' 29.857"	22° 55' 54.521"
P-417	45	82° 5' 48.175"	22° 51' 54.009"	P-458	51	81° 57' 48.643"	23° 0' 11.200"
P-418	45	82° 5' 45.767"	22° 51' 51.644"	P-459	51	81° 57' 46.874"	23° 0' 8.414"
P-419	45	82° 5' 43.359"	22° 51' 49.279"	P-460	51	81° 57' 46.356"	23° 0' 7.409"
P-420	45	82° 5' 40.951"	22° 51' 46.914"	P-461	52	82° 5' 5.522"	22° 49' 13.657"
P-421	45	82° 5' 38.543"	22° 51' 44.550"	P-462	52	82° 5' 3.491"	22° 49' 11.768"
P-422	45	82° 5' 35.917"	22° 51' 42.397"	P-463	53	82° 6' 34.293"	22° 53' 27.087"
P-423	45	82° 5' 33.197"	22° 51' 40.344"	P-464	53	82° 6' 32.471"	22° 53' 24.977"
P-424	45	82° 5' 30.429"	22° 51' 38.346"	P-465	54	82° 3' 21.890"	23° 0' 9.937"
P-425	45	82° 5' 27.663"	22° 51' 36.346"	P-466	54	82° 3' 18.560"	23° 0' 9.088"
P-426	45	82° 5' 24.913"	22° 51' 34.325"	P-467	54	82° 3' 17.928"	23° 0' 8.870"
P-427	45	82° 5' 24.796"	22° 51' 34.239"	P-468	55	81° 57' 12.309"	22° 50' 41.238"
P-428	46	82° 2' 31.961"	22° 53' 3.728"	P-469	55	81° 57' 12.248"	22° 50' 44.473"
P-429	46	82° 2' 33.853"	22° 53' 5.719"	P-470	55	81° 57' 12.246"	22° 50' 44.495"
P-430	47	82° 0' 40.344"	22° 52' 50.265"	P-471	56	81° 57' 6.227"	22° 52' 4.474"
P-431	47	82° 0' 44.346"	22° 52' 47.376"	P-472	56	81° 57' 4.787"	22° 52' 7.141"
P-432	47	82° 0' 46.475"	22° 52' 44.845"	P-473	56	81° 57' 4.418"	22° 52' 7.541"
P-433	47	82° 0' 48.927"	22° 52' 43.333"	P-474	57	81° 57' 14.020"	22° 50' 17.218"
P-434	48	82° 1' 40.963"	23° 0' 7.660"	P-475	57	81° 57' 10.981"	22° 50' 18.787"
P-435	48	82° 1' 38.570"	22° 59' 55.250"	P-476	57	81° 57' 8.980"	22° 50' 20.259"
P-436	48	82° 1' 39.886"	22° 59' 58.262"	P-477	57	81° 57' 8.408"	22° 50' 20.763"
P-437	48	82° 1' 40.525"	23° 0' 1.373"				
P-438	48	82° 1' 40.028"	23° 0' 4.590"				
P-439	48	82° 1' 39.931"	23° 0' 7.199"				
P-440	48	82° 1' 40.963"	23° 0' 7.660"				
P-441	49	81° 56' 7.204"	22° 52' 44.211"				
P-442	49	81° 56' 10.004"	22° 52' 46.154"				



Divisional Forest Officer
Marwahi Division Pendra Road

