

कार्यालय वनमण्डलाधिकारी (सा.) मनेन्द्रगढ़ वनमण्डल, मनेन्द्रगढ़ (छत्तीसगढ़)

E-mail :- divisionmanendragarh@rediffmail.com Phone - 07771-241349, Fax 243731

क्र./त.अ./ 2019/2095
प्रति,

मनेन्द्रगढ़/दिनांक 28/11/2019

श्री अजय नायक
स्टेट हेड (आर.ओ.डब्ल्यू)
टाटा प्रोजेक्ट लिमिटेड
रायपुर (छत्तीसगढ़)

विषय :- भारत सरकार की महत्वपूर्ण योजना "भारत नेट परियोजना" के सफल क्रियान्वयन हेतु कोरिया जिले के मनेन्द्रगढ़ वनमण्डल क्षेत्रान्तर्गत भरतपुर ब्लॉक के अंतर्गत शामिल ग्राम पंचायत में मार्ग के सामान्तर 5.368 हे. वन भूमि 0.244 हे. राजस्व वन भूमि, कुल रकबा 5.612 हे. वनभूमि पर ऑप्टिकल फाईबर केबल बिछाने विषयक वनभूमि के गैर वानिकी परियोजना हेतु व्यपवर्तन प्रस्ताव हेतु डी.जी.पी.एस./लीडर सर्वे रिपोर्ट के सत्यापन बावत्।

संदर्भ :- 1. कार्यालयीन पत्र क्र./मा.चि./2019/3412 मनेन्द्रगढ़ दिनांक 24.10.2019
2. आपका पत्र क्रमांक/भा.ने./ओ.एफ.सी./वनभूमि/प्रस्ताव/2019-20/21 रायपुर दिनांक 11.11.2019

— 00 —

विषयांतर्गत भारत सरकार की महत्वपूर्ण योजना "भारत नेट परियोजना" के तहत कार्यालय छ.ग. इन्फोटेक प्रमोशन सोसायटी (Chips) रायपुर द्वारा छ.ग. के समस्त जिलों के ग्राम पंचायतों को दूर संचार की आधुनिक सुविधाओं को जोड़ने एवं डिजीटलकृत हेतु मेसर्स टाटा प्रोजेक्ट लिमिटेड को कार्यान्वयन सहभागी नियुक्त किया गया है।

प्रकरण में संदर्भित पत्र द्वारा मनेन्द्रगढ़ वनमण्डल के बहरासी/कुंवारपुर/जनकपुर परिक्षेत्र अंतर्गत आवेदक संस्थान द्वारा ऑप्टिकल फाईबर केबल बिछाने हेतु डी.जी.पी.एस./लीडर सर्वे रिपोर्ट मय मानचित्र प्रस्तुत किया गया, जिसका सत्यापन संबंधित वन परिक्षेत्राधिकारी एवं उपवनमण्डलाधिकारी द्वारा किया गया है।

मनेन्द्रगढ़ वनमण्डल अंतर्गत ऑप्टिकल फाईबर केबल बिछाने हेतु प्रस्तुत डी.जी.पी.एस. रिपोर्ट मय मानचित्र का सत्यापन उपरांत रिपोर्ट प्रेषित है। वनभूमि प्रत्यावर्तन हेतु वन संरक्षण अधिनियम 1980 के अंतर्गत नियमानुसार प्रस्ताव तैयार करते हुये ऑन लाईन पंजीयन की कार्यवाही पूर्ण करे, ताकि अग्रिम कार्यवाही की जा सकें।

संलग्न :- डी.जी.पी.एस. रिपोर्ट मय मानचित्र।

वनमण्डलाधिकारी

मनेन्द्रगढ़ वनमण्डल, मनेन्द्रगढ़

पृ.क्र./त.अ./ 2019/2096
प्रतिलिपि :-

मनेन्द्रगढ़/दिनांक 28/11/2019

1. अपर प्रधान मुख्य वन संरक्षक (भू- प्रबंध) छत्तीसगढ़, अरण्य भवन, नार्थ ब्लॉक, सेक्टर -19, अटल नगर, नवा रायपुर (छ.ग.) की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु सादर संप्रेषित।
2. मुख्य वन संरक्षक सरगुजा वन वृत्त अम्बिकापुर की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु सादर संप्रेषित।

वनमण्डलाधिकारी

मनेन्द्रगढ़ वनमण्डल, मनेन्द्रगढ़

CHHATTISGARH BHARATNET PHASE-II PROJECT

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

Forest Division : MANENDRAGARH
Forest Land (RF/PF/OA) : 5.368 Ha.
Rev. Forest Land : 0.244 Ha.
Total Proposed Diversion Area : 5.612 Ha.
Block : BHARATPUR
District : KORIYA (C.G.)

Applicant -



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

Submitted By -



TATA PROJECTS

Tata Projects Limited, Raipur (Chhattisgarh)



Table of Contents

1.	Introduction and Background.....	3
1.1.	Background.....	3
1.2.	Proposed Routes	3
1.3.	Location	4
1.4.	Objective.....	4
2.	Scope of Work	5
3.	Deliverables	5
4.	Technical Approach	6
4.1.	GCP Establishment for LiDAR (DGPS) Survey:	6
4.2.	Mobile LiDAR (DGPS) data collection:	9
4.3.	DRS / GIS Map Creation Using LiDAR data:	10
4.4.	Demarcation of Proposed OFC on LiDAR data:	11
4.5.	Geo-referencing of Maps:	12
4.6.	Creation of Vector Data for Forest Diversion:	12
4.7.	Generation of Map and Survey Reports for Forest Diversion	13
5.	DGPS Survey Results.....	14
5.1.	Forest Area Statement (Annexure-1)	14
5.2.	LiDAR/DGPS Surveyed coordinates of Forest Patches (Annexure-2)	24
5.3.	Geo-Referenced Maps of the Proposed Route (Annexure-3)	38
5.3.1.	Map showing Geo-reference map of proposed OFC Route.	38
5.3.2.	Map showing proposed OFC Route on Toposheet map on 1:50,000 scale.	38

1. Introduction and Background

1.1. Background

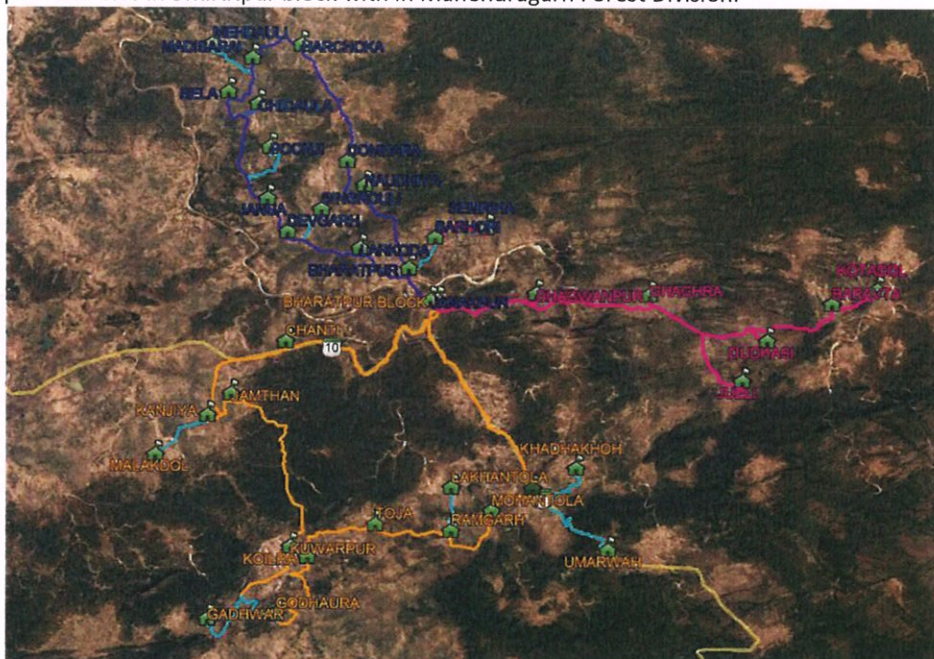
The Government of Chhattisgarh intends to setup an Optical Fibre Cable Network from the Block Head Quarters to Gram Panchayats to provide high speed broadband connectivity by connecting the 85 Blocks, 5987 Gram Panchayats across the State. The proposed network architecture for BharatNet Phase-II project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

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

The Chhattisgarh Infotech Promotion Society (CHiPS) has selected an implementation partner “**Tata Project Limited**” for BharatNet Phase-II Project. The project has been conceived with the ambitious vision of providing connectivity to the yet unreachable blocks in Chhattisgarh and entails massive investment on the infrastructure creation across the state which would serve as the information highway for decades to come.

1.2. Proposed Routes

The proposed routes in Bharatpur block with in Manendragarh Forest Division.



OFC Cable Proposed Routes in Bharatpur Block in Manendragarh Forest Division.

1.3. Location

The proposed OFC Cable route in Manendragarh Forest Division (The OFC route Bharatpur Block; District: Koriya). The Proposed OFC route length is approx. 269.655 Km in Bharatpur Block. The survey site passes through forest ranges Bahraji, Janakpur and Kuwarpur of Manendragarh Forest Division. The OFC Cable route is covered under Survey of India Toposheets 64 E09, 64 E10, 64 E13, and 64 E14, and 64 I02 on RF 1:50000.

1.4. Objective

As per directives of Ministry of Environment & Forests (MoEF) dated 8th July 2011; all applications for Forest Diversion, under Forest Conservation Act, 1980 must be accompanied with Geo-referenced shape file, showing the boundary of the proposed area (both soft copy and hard copy maps), prepared using LiDAR/Differential GPS (DGPS) and the same should be uploaded to MoEF website along with the online application.

To meet this requirement, **Tata Project Limited** entrusted the DGPS survey work to **Genesys International Corporation Limited, Mumbai** through Mobile LiDAR Technology.

2. Scope of Work

1. Establishment of Ground Control Pointy with 72 Hours observation which covering approx. 15 km radios of the proposed route.
2. DGPS Survey for collection of ground coordinates along the proposed OFC Cable trench at every 200 m interval and/or at every turn/bend along the proposed trench. The DGPS data is collected at forest patches only.
3. Data processing and Interpretation
 - I. Geo-referencing of SOI Toposheet (scale 1:50000).
 - II. Creation of OFC Cable trench boundary vector map using the DGPS Surveyed data
 - III. Computation of Forest area and preparation of Forest Area Statement for proposed diversion. It includes Reserved/Protected Forest/ Orange Area & Revenue Forest Land.
 - IV. Preparation of Geo-referenced map showing proposed OFC Route.
 - V. Superimposition of cable route layer on Geo-referenced SOI Toposheet (scale 1:50000).
 - VI. Preparation of DGPS survey report along with soft copy of maps including shapefile format and kml file.
4. Preparation of Desired report, Geo-referenced maps and Technical compliance in Hard copy and soft copy.

3. Deliverables

The deliverables envisaged for the assignment are described below -

1. Proposed Forest Diversion area statement as per LiDAR / DGPS Survey of proposed OFC route.
2. Geo-referenced map showing proposed OFC route in forest area and superimposed on SOI maps based on LiDAR / DGPS observations – Hard and Soft Copy (Maps in PDF format, SHP and KML formats).
3. LiDAR / DGPS Survey and Mapping Reports containing Ground Control Points report as the primary Control Points.
4. DGPS Survey and mapping report on hard copy and soft copy in CD.

4. Technical Approach

4.1. GCP Establishment for LiDAR (DGPS) Survey:

DGPS Survey with high precision equipment was used in blocks to bring mapping in to a single co-ordinates system. These Ground Control Point (GCPs) were connected to the Mobile LiDAR Mapping for accuracy purpose. The Ground Control Point required for eliminates the traditional mapping. The system can achieve millimeter accuracy of vehicle positioning, 3-D coordinates, and objects measured from the Geo-referenced image sequences. The Ground Control Point with 72 Hours of DGPS observation for Post Processing the GCP data with International GNSS Service (IGS) stations.



Leica Geosystems AG
Heinrich-Wild-Strasse
CH-9405 Heerbrugg
St. Gallen, Switzerland

Phone + 41 71 727 6100
Fax + 41 71 727 6578

- when it has to be right



GNSS Processing Report - Summary

Report created: 05/10/2019 18:47:29

Project Details

General		Customer Details		Master Coordinate System	
Project Name:	CHIPS	Customer Name:	-	Coordinate System Name:	UTM48N
Owner:	GENSIS INTERNATIONAL CORPORATION LIMITED	Contact Person:	-	Transformation Type:	Classical 3D
Lead Surveyor:	-	Number:	-	Residual Distribution:	None
Date Created:	05/10/2019 14:22:05	Email:	-	Ellipsoid:	WGS 1984
Last Accessed:	05/10/2019 14:22:05	Skype:	-	Projection Type:	UTM
Application Software:	Infinity 2.3	Website:	-	Satoid Model:	WGS_2000
				CSCS Model:	-
Path:	G:\UNIVERSITY PROJECTS\CHIPS\CHIPS.gpx				
Size:	5,896.3 MB				
Comments:	-				

SPP Point: 9453Base_1

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

Date	Selected	Used	Comments
Cut-Off Angle:	15°	15°	
Frequency:	Automatic	L1/L2/L3/L4/L5	
Sampling rate:	Use RL	1 sec	
Satellite system:	GPS/GLONASS/BDS/Galileo	GPS/GLONASS/BDS/Galileo	
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 Ionospheric Model:	Automatic	Automatic	
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model	
Ionospheric Model:	Automatic	Computed	
Allow Widearea Rtc:	Automatic	No	

General Settings	
Min. Distance for Data Marking:	15 km
Position Ambiguities Fix up to:	200 km
Min. Distance for Fixup:	00:00:01
Solution (ITM):	

Results SPP Point: 9453Base_1

Acquisition

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

Antenna

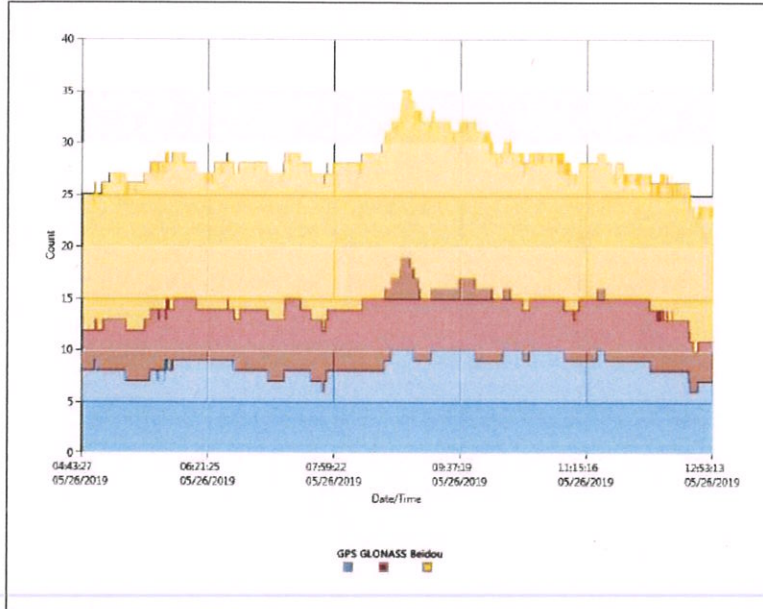
Receiver Name / ID:	LEICA GS16 / 1001803
Antenna Name / ID:	LEICA556 / -
Cable Offset:	0.000 m
Height Reading:	1.100 m
Antenna Height:	1.100 m

Chhattisgarh BharatNet Phase-II Project

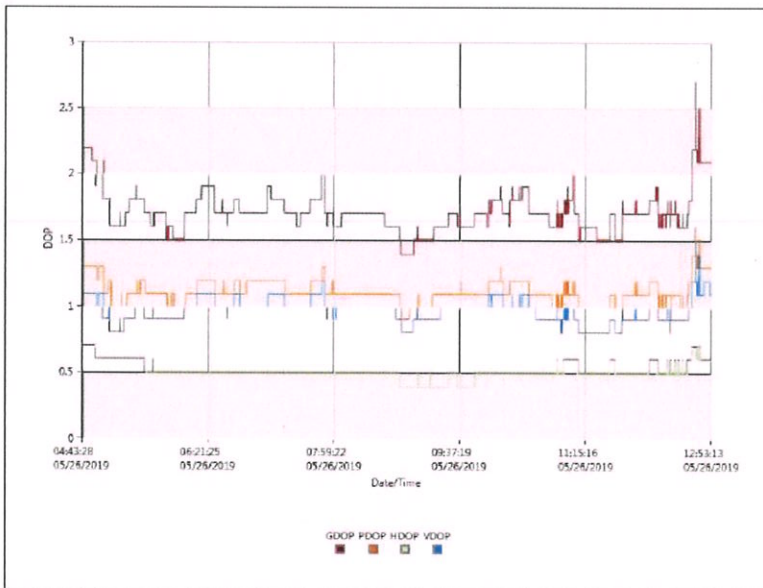
Processing Info (05/26/2019 04:43:28 - 05/26/2019 12:53:14)

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	Koriya	GCP-36	N23°43'21.06091"	E82°03'59.31419"	608708.026	2623912.908
2	Koriya	GCP-37A	N23°42'59.78523"	E81°55'22.09260"	594066.497	2623156.269
3	Koriya	GCP-38	N23°49'51.42009"	E81°43'52.35827"	574470.418	2635702.565
4	Koriya	GCP-38A	N23°50'33.13257"	E81°40'24.94930"	568596.453	2636956.351
5	Koriya	GCP-38B	N23°45'56.24402"	E81°43'42.29031"	574222.688	2628468.319
6	Koriya	GCP-39	N23°42'34.95686"	E81°47'25.65154"	580579.466	2622311.544
7	Koriya	GCP-39A	N23°38'59.76262"	E81°38'35.59674"	565599.424	2615617.964
8	Koriya	GCP-40	N23°35'30.56839"	E81°48'08.05753"	581853.633	2609266.387
9	Koriya	GCP-40A	N23°32'31.32476"	E81°39'29.09706"	567170.025	2603678.989

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

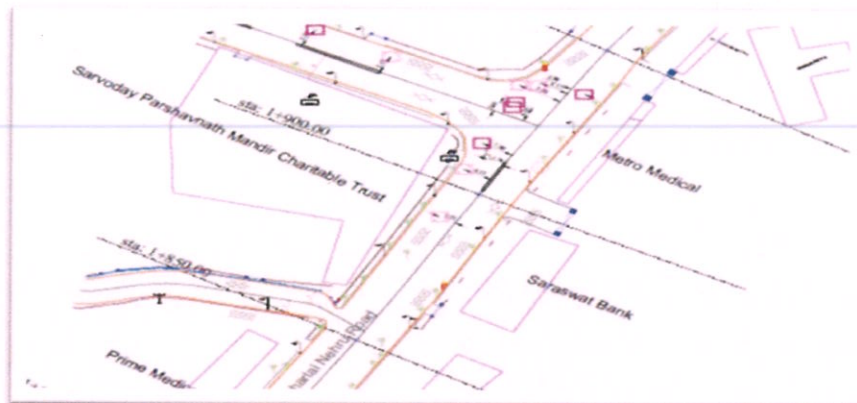


4.3. DRS / GIS Map Creation Using LiDAR data:

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



Feature Extraction on LiDAR



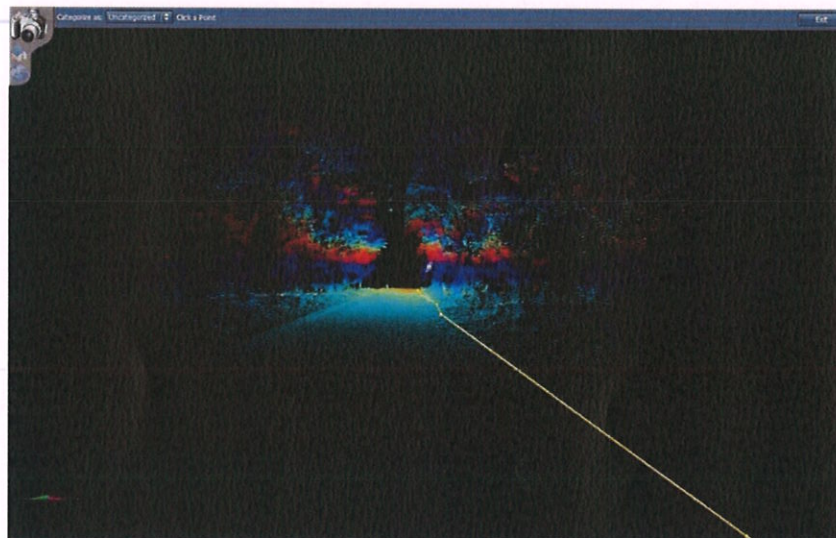
Final DRS / GIS Map

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.

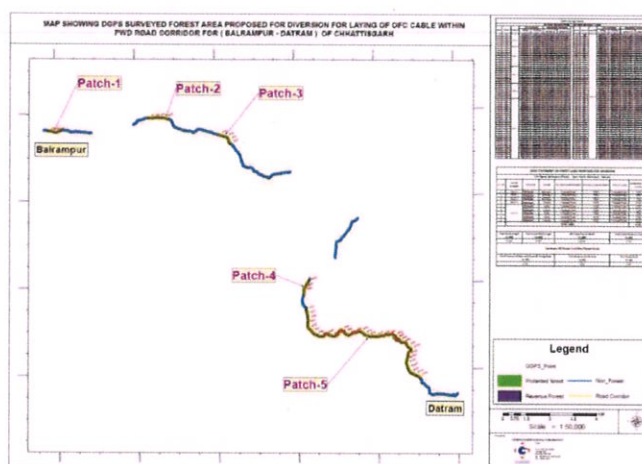


Proposed OFC Line on LiDAR Data (with Panoramic Imagery)



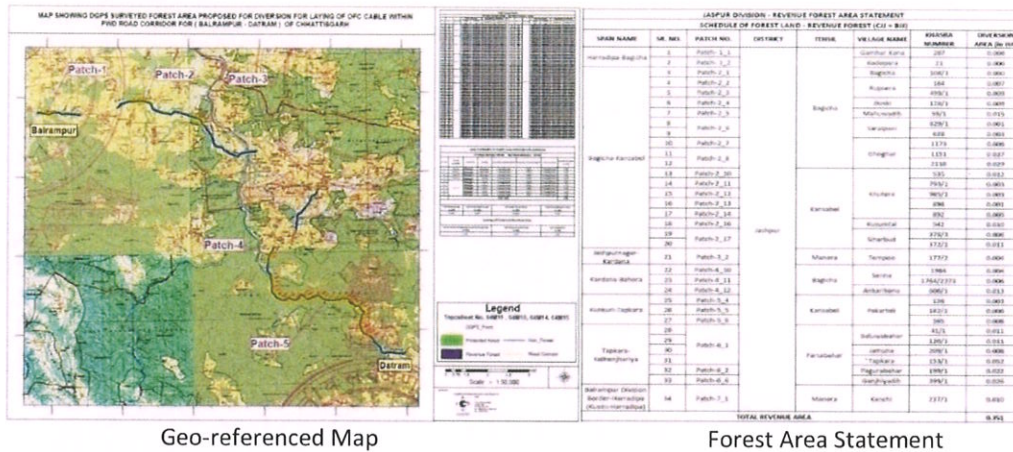
Proposed OFC Line on LiDAR Data only

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



4.7. Generation of Map and Survey Reports for Forest Diversion

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



5. DGPS Survey Results

The total OFC route length is approx. 269.655 km. covered Bharatpur Block of Koriya District. Out of this 157.424 km OFC route length is passing through non-forest Land and 112.231 km OFC route length is passing through Forest Patches hence the proposed forest area for diversion 5.612 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.

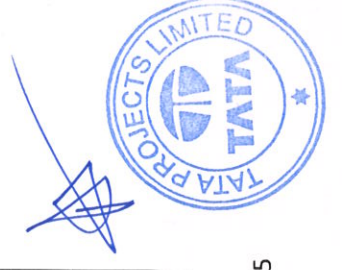
5.1. Forest Area Statement (Annexure-1)

Forest Area Statement – Bharatpur Block with in Manendragarh Forest Division, District - Koriya						
Total Route Length (In Km.)	Length of Non Forest Land (In K.m.)	Width of Non Forest Land (In K.M)	Area of Non-Forest Land (In Ha.)	Length of Forest Land (in km.)	Width of Forest Land (in km.)	Area of Proposed Forest Land (in Ha.)
269.655	157.424	0.0005	7.871	112.231	0.0005	5.612

Sl. No.	Forest Division	Forest range	No of Compartment	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
1	Manendragarh	Bahrasi	19	27193.926	0.5	1.360
2	Manendragarh	Janakpur	28	28484.052	0.5	1.424
3	Manendragarh	Kuwarpur	42	51676.907	0.5	2.584
Total of Table A			89	107354.885	0.5	5.368
Sl. No.	District	Block	No of Khasra	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
1	Koriya	Bharatpur	39	4876.023	0.5	0.244
Total of Table B			39	4876.023	0.5	0.244
Total Diversion Area (Table A+TableB)				112230.908	0.5	5.612

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	1	Bharatpur	Manendragarh	Bahrasi To Umarwah	Bahrasi	RF	1056	1798.906	0.5	0.090
2	1	Bharatpur	Manendragarh	Bahrasi To Umarwah	Bahrasi	RF	1057	99.816	0.5	0.005
3	1	Bharatpur	Manendragarh	Bahrasi To Umarwah	Bahrasi	PF	P1084	2375.946	0.5	0.119
4	1	Bharatpur	Manendragarh	Bahrasi To Umarwah	Bahrasi	PF	P1087	1624.178	0.5	0.081
5	2	Bharatpur	Manendragarh	Bahrasi To Umarwah	Bahrasi	PF	P1074	446.512	0.5	0.022
6	3	Bharatpur	Manendragarh	Bahrasi To Khadhak	Bahrasi	RF	1082	1105.426	0.5	0.055
7	4	Bharatpur	Manendragarh	Bahrasi To Mohanto	Bahrasi	PF	P1079	2195.475	0.5	0.110
8	5	Bharatpur	Manendragarh	Lakhant To Toja	Bahrasi	PF	P1076	1315.609	0.5	0.066
9	20	Bharatpur	Manendragarh	Bharatpur To Bahrasi	Bahrasi	PF	P1080	2865.736	0.5	0.143
10	21	Bharatpur	Manendragarh	Bharatpur To Bahrasi	Bahrasi	PF	P1081	1251.324	0.5	0.063
11	22	Bharatpur	Manendragarh	Jueli To Dudhasi	Bahrasi	PF	P1106	1080.808	0.5	0.054
12	22	Bharatpur	Manendragarh	Jueli To Dudhasi	Bahrasi	PF	P1140	2527.188	0.5	0.126
13	23	Bharatpur	Manendragarh	Dudhasi To Baravta	Bahrasi	PF	P1142	114.780	0.5	0.006
14	23	Bharatpur	Manendragarh	Dudhasi To Baravta	Bahrasi	PF	P1144	376.057	0.5	0.019
15	23	Bharatpur	Manendragarh	Dudhasi To Baravta	Bahrasi	PF	P1145	1273.745	0.5	0.064
16	23	Bharatpur	Manendragarh	Dudhasi To Baravta	Bahrasi	PF	P1146	1559.063	0.5	0.078



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	24	Bharatpur	Manendragarh	Jueli To Dudhasi	Bahrasi	RF	1124	3042.743	0.5	0.152
18	24	Bharatpur	Manendragarh	Ghaghra To Jueli	Bahrasi	RF	1125	432.972	0.5	0.022
19	24	Bharatpur	Manendragarh	Jueli To Dudhasi	Bahrasi	PF	P1139	1707.642	0.5	0.085
Total-							19	27193.926	0.5	1.360
20	25	Bharatpur	Manendragarh	Bhagwan To Ghaghra	Janakpur	PF	P1296	2659.635	0.5	0.133
21	28	Bharatpur	Manendragarh	Bharatpur To Bahrasi	Janakpur	PF	P1330	934.814	0.5	0.047
22	29	Bharatpur	Manendragarh	Barhori To Seemriha	Janakpur	PF	P1331	2966.953	0.5	0.148
23	29	Bharatpur	Manendragarh	NaudhiyTo Bharatpur	Janakpur	PF	P1340	382.560	0.5	0.019
24	29	Bharatpur	Manendragarh	Naudhiy To Bharatpur	Janakpur	PF	P1341	1189.497	0.5	0.059
25	30	Bharatpur	Manendragarh	Harchok To Naudhiy	Janakpur	PF	P1349	988.138	0.5	0.049
26	31	Bharatpur	Manendragarh	Harchok To Naudhiy	Janakpur	PF	P1345	777.811	0.5	0.039
27	31	Bharatpur	Manendragarh	Harchok To Naudhiy	Janakpur	PF	P1348	380.694	0.5	0.020
28	32	Bharatpur	Manendragarh	Harchok To Naudhiy	Janakpur	PF	P1347	727.827	0.5	0.036
29	33	Bharatpur	Manendragarh	Mehdaul To Harchok	Janakpur	PF	P1346	1714.643	0.5	0.086
30	33	Bharatpur	Manendragarh	Mehdaul To Harchok	Janakpur	PF	P1364	525.348	0.5	0.026
31	34	Bharatpur	Manendragarh	Chidaul To Mehdaul	Janakpur	PF	P1363	1121.865	0.5	0.056
32	34	Bharatpur	Manendragarh	Chidaul To Mehdaul	Janakpur	PF	P1364	374.840	0.5	0.019



Chhattisgarh BharatNet Phase-II Project

Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
33	36	Bharatpur	Manendragarh	Bela To Chidaul	Janakpur	PF	P1360	969.439	0.5	0.048
34	36	Bharatpur	Manendragarh	Poonji To Bela	Janakpur	PF	P1360	1094.476	0.5	0.055
35	37	Bharatpur	Manendragarh	Poonji To Bela	Janakpur	PF	P1354	306.292	0.5	0.015
36	37	Bharatpur	Manendragarh	Poonji To Bela	Janakpur	PF	P1355	1768.967	0.5	0.088
37	37	Bharatpur	Manendragarh	Poonji To Bela	Janakpur	PF	P1356	674.441	0.5	0.034
38	38	Bharatpur	Manendragarh	Janua To Poonji	Janakpur	PF	P1350	408.304	0.5	0.020
39	38	Bharatpur	Manendragarh	Poonji To Bela	Janakpur	PF	P1350	408.304	0.5	0.021
40	38	Bharatpur	Manendragarh	Janua To Poonji	Janakpur	PF	P1352	141.697	0.5	0.007
41	38	Bharatpur	Manendragarh	Janua To Poonji	Janakpur	PF	P1352	141.697	0.5	0.007
42	38	Bharatpur	Manendragarh	Janua To Poonji	Janakpur	PF	P1352	680.532	0.5	0.034
43	38	Bharatpur	Manendragarh	Janua To Poonji	Janakpur	PF	P1352	680.532	0.5	0.034
44	39	Bharatpur	Manendragarh	Janua To Poonji	Janakpur	PF	P1352	793.902	0.5	0.040
45	41	Bharatpur	Manendragarh	Larkoda To Singrou	Janakpur	PF	P1339	2849.247	0.5	0.142
46	42	Bharatpur	Manendragarh	Larkoda To Singrou	Janakpur	PF	P1335	1270.695	0.5	0.064
47	43	Bharatpur	Manendragarh	Janakpur To Larkoda	Janakpur	PF	P1329	1550.902	0.5	0.078
Total-						28		28484.052	0.5	1.424
48	6	Bharatpur	Manendragarh	Lakhant To Toja	Kuwarpur	PF	P1177	582.575	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.)
49	7	Bharatpur	Manendragarh	Lakhant To Toja	Kuwarpur	PF	P1180	811.603	0.5	0.041
50	8	Bharatpur	Manendragarh	Toja To Koilra	Kuwarpur	PF	P1182	1859.197	0.5	0.093
51	9	Bharatpur	Manendragarh	Godhaur To Gadhwari	Kuwarpur	PF	P1166	2411.548	0.5	0.121
52	9	Bharatpur	Manendragarh	Kuwarpu To Godhaur	Kuwarpur	PF	P1166	2474.449	0.5	0.124
53	10	Bharatpur	Manendragarh	Godhaur To Gadhwari	Kuwarpur	PF	P1163	882.286	0.5	0.044
54	10	Bharatpur	Manendragarh	Ghaghra To Gadhwari	Kuwarpur	PF	P1164	848.252	0.5	0.042
55	11	Bharatpur	Manendragarh	Kuwarpu To Godhaur	Kuwarpur	PF	P1167	943.742	0.5	0.047
56	11	Bharatpur	Manendragarh	Kuwarpu To Godhaur	Kuwarpur	PF	P1168	2283.842	0.5	0.114
57	11	Bharatpur	Manendragarh	Kuwarpu To Godhaur	Kuwarpur	PF	P1169	562.560	0.5	0.028
58	12	Bharatpur	Manendragarh	Kuwarpu To Jamthan	Kuwarpur	RF	1201	2041.409	0.5	0.102
59	12	Bharatpur	Manendragarh	Kuwarpu To Jamthan	Kuwarpur	RF	1205	2234.160	0.5	0.112
60	12	Bharatpur	Manendragarh	Kuwarpu To Jamthan	Kuwarpur	RF	1206	1155.433	0.5	0.058
61	12	Bharatpur	Manendragarh	Kuwarpu To Jamthan	Kuwarpur	RF	1260	829.356	0.5	0.041
62	12	Bharatpur	Manendragarh	Kuwarpu To Jamthan	Kuwarpur	RF	1261	1884.986	0.5	0.094
63	12	Bharatpur	Manendragarh	Kuwarpu To Jamthan	Kuwarpur	PF	P1181	418.750	0.5	0.020
64	12	Bharatpur	Manendragarh	Koilar To Kuwarpu	Kuwarpur	PF	P1182	1266.684	0.5	0.063
65	12	Bharatpur	Manendragarh	Kuwarpu To Jamthan	Kuwarpur	PF	P1218	470.898	0.5	0.024

Chhattisgarh BharatNet Phase-II Project

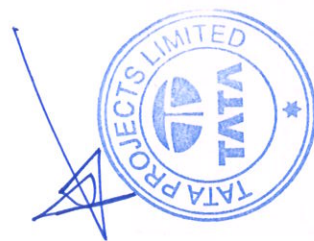
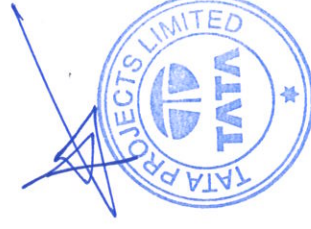


Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area										
Sl. No.	Patch	Block	Forest Division	Route Name	Forest Range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
66	12	Bharatpur	Manendragarh	Kuwarpu To Jamthan	Kuwarpur	PF	P1219	120.725	0.5	0.006
67	12	Bharatpur	Manendragarh	Kuwarpu To Jamthan	Kuwarpur	PF	P1225	412.163	0.5	0.021
68	13	Bharatpur	Manendragarh	Jamthan To Kaniya	Kuwarpur	PF	P1223	1668.291	0.5	0.083
69	15	Bharatpur	Manendragarh	Chanti To Bharatpur	Kuwarpur	PF	P1228	2724.312	0.5	0.136
70	15	Bharatpur	Manendragarh	Chanti To Bharatpur	Kuwarpur	PF	P1229	357.090	0.5	0.018
71	16	Bharatpur	Manendragarh	Chanti To Bharatpur	Kuwarpur	PF	P1230	1114.288	0.5	0.056
72	17	Bharatpur	Manendragarh	Chanti To Bharatpur	Kuwarpur	RF	1242	871.492	0.5	0.044
73	17	Bharatpur	Manendragarh	Chanti To Bharatpur	Kuwarpur	RF	1247	450.009	0.5	0.023
74	17	Bharatpur	Manendragarh	Chanti To Bharatpur	Kuwarpur	PF	P1253	2242.333	0.5	0.112
75	18	Bharatpur	Manendragarh	Bharatpur To Bahrasi	Kuwarpur	RF	1236	2482.140	0.5	0.124
76	18	Bharatpur	Manendragarh	Chanti To Bharatpur	Kuwarpur	RF	1236	907.467	0.5	0.045
77	18	Bharatpur	Manendragarh	Chanti To Bharatpur	Kuwarpur	PF	P1263	457.834	0.5	0.023
78	18	Bharatpur	Manendragarh	Chanti To Bharatpur	Kuwarpur	PF	P1265	970.760	0.5	0.048
79	18	Bharatpur	Manendragarh	Bharatpur To Bahrasi	Kuwarpur	PF	P1267	2216.284	0.5	0.111
80	18	Bharatpur	Manendragarh	Bharatpur To Bahrasi	Kuwarpur	PF	P1270	490.946	0.5	0.025
81	18	Bharatpur	Manendragarh	Bharatpur To Bahrasi	Kuwarpur	PF	P1273	1062.161	0.5	0.053
82	18	Bharatpur	Manendragarh	Bharatpur To Bahrasi	Kuwarpur	PF	P1274	490.575	0.5	0.025

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.)
83	19	Bharatpur	Manendragarh	Bharatpur To Bahrasi	Kuwarpur	PF	P1268	1512.045	0.5	0.076
84	25	Bharatpur	Manendragarh	Bhagwan To Ghaghra	Kuwarpur	PF	P1293	716.106	0.5	0.036
85	26	Bharatpur	Manendragarh	Bharatpur To Bhagwan	Kuwarpur	PF	P1267	244.164	0.5	0.012
86	26	Bharatpur	Manendragarh	Bharatpur To Bhagwan	Kuwarpur	PF	P1272	1310.165	0.5	0.066
87	26	Bharatpur	Manendragarh	Bharatpur To Bhagwan	Kuwarpur	PF	P1275	2377.543	0.5	0.119
88	26	Bharatpur	Manendragarh	Bharatpur To Bhagwan	Kuwarpur	PF	P1276	470.779	0.5	0.024
89	27	Bharatpur	Manendragarh	Janakpur To Larkoda	Kuwarpur	PF	P1266	2045.505	0.5	0.102
Total-							42	51676.907	0.5	2.584
Grand Total-							89	107354.885	0.5	5.368



वनमण्डलाधिकारी
वन बाण्डल मन्त्रालय

Table B - Area statement for proposed forest Patches – Revenue Forest Land (Chhote/Bade Jhad ke jangal)										
Sl. No.	Patch	District	Block	Route Name	Village	Type	Khasra No	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
1	2	Koriya	Bharatpur	Bahrasi To Bharatpur	Bahrasi	CJJ	426	37.533	0.5	0.002
2	2	Koriya	Bharatpur	Bahrasi To Bharatpur	Bahrasi	CJJ	428	77.795	0.5	0.004
3	10	Koriya	Bharatpur	Gadhwar To Godhaur	Tilauli	CJJ	433	34.268	0.5	0.002
4	12	Koriya	Bharatpur	Kuwarpu To Toja	Kuwarpur	BJJ	323	277.789	0.5	0.014
5	12	Koriya	Bharatpur	Kuwarpu To Toja	Kuwarpur	BJJ	332	154.008	0.5	0.007
6	14	Koriya	Bharatpur	Chanti To Jamthan	Chanti	CJJ	234	105.637	0.5	0.005
7	16	Koriya	Bharatpur	Chanti To Lakhant	Ganjar	CJJ	196	221.748	0.5	0.011
8	18	Koriya	Bharatpur	Bahrasi To Bharatpur	Masaura	CJJ	31	54.797	0.5	0.003
9	18	Koriya	Bharatpur	Bahrasi To Bharatpur	Masaura	CJJ	34	107.042	0.5	0.005
10	19	Koriya	Bharatpur	Bahrasi To Bharatpur	Masaura	CJJ	41	278.405	0.5	0.014
11	22	Koriya	Bharatpur	Jueli To Ghaghra	Ranpa	CJJ	172	224.739	0.5	0.011
12	22	Koriya	Bharatpur	Jueli To Ghaghra	Ranpa	CJJ	172	224.063	0.5	0.011
13	23	Koriya	Bharatpur	Dudhasi To Jueli	Dundhasi	CJJ	68	87.930	0.5	0.004
14	24	Koriya	Bharatpur	Jueli To Ghaghra	Ranpa	CJJ	6	103.513	0.5	0.005
15	25	Koriya	Bharatpur	Ghaghra To Bhagwan	Ghaghara	CJJ	265	137.581	0.5	0.007
16	25	Koriya	Bharatpur	Ghaghra To Bhagwan	Ghaghara	CJJ	309	79.442	0.5	0.004
17	26	Koriya	Bharatpur	Bhagwan To Bharatpur	Bhagwanpur	CJJ	842	55.424	0.5	0.003



Table B - Area statement for proposed forest Patches – Revenue Forest Land (Chhote/Bade Jhad ke jangal)										
Sl. No.	Patch	District	Block	Route Name	Village	Type	Khasra No	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
18	28	Koriya	Bharatpur	Bharatpur To Naudhiy	Kuwari	CJJ	395	60.587	0.5	0.003
19	28	Koriya	Bharatpur	Bharatpur To Naudhiy	Kuwari	CJJ	396	12.367	0.5	0.001
20	28	Koriya	Bharatpur	Bharatpur To Naudhiy	Kuwari	CJJ	397	119.369	0.5	0.006
21	30	Koriya	Bharatpur	Harchok To Naudhiy	Belgaon	CJJ	331	142.749	0.5	0.007
22	30	Koriya	Bharatpur	Harchok To Naudhiy	Belgaon	CJJ	332	50.143	0.5	0.003
23	30	Koriya	Bharatpur	Harchok To Naudhiy	Belgaon	CJJ	334	47.348	0.5	0.002
24	30	Koriya	Bharatpur	Harchok To Naudhiy	Belgaon	CJJ	336	78.708	0.5	0.004
25	30	Koriya	Bharatpur	Harchok To Naudhiy	Belgaon	CJJ	341	17.425	0.5	0.001
26	30	Koriya	Bharatpur	Harchok To Naudhiy	Belgaon	CJJ	343	58.640	0.5	0.003
27	31	Koriya	Bharatpur	Harchok To Naudhiy	Belgaon	BJJ	151	95.931	0.5	0.005
28	31	Koriya	Bharatpur	Harchok To Naudhiy	Belgaon	BJJ	175	100.366	0.5	0.005
29	31	Koriya	Bharatpur	Harchok To Naudhiy	Belgaon	CJJ	233	57.716	0.5	0.003
30	32	Koriya	Bharatpur	Harchok To Naudhiy	Harchoka	CJJ	539	42.169	0.5	0.002
31	32	Koriya	Bharatpur	Harchok To Naudhiy	Harchoka	BJJ	548	279.253	0.5	0.014
32	35	Koriya	Bharatpur	Bela To Chidaul	Bela	CJJ	556	158.774	0.5	0.008
33	40	Koriya	Bharatpur	Devgarh To Poonji	Janua	BJJ	517	292.492	0.5	0.015
34	40	Koriya	Bharatpur	Devgarh To Poonji	Janua	BJJ	519	433.643	0.5	0.022

Chhattisgarh BharatNet Phase-II Project

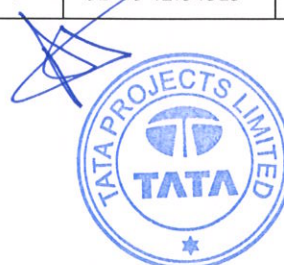
Table B - Area statement for proposed forest Patches – Revenue Forest Land (Chhote/Bade Jhad ke jangal)										
Sl. No.	Patch	District	Block	Route Name	Village	Type	Khasra No	Length (in m.)	Width (in m.)	Proposed Area (in Ha.)
35	40	Koriya	Bharatpur	Devgarh To Poonji	Janua	BJJ	524	256.654	0.5	0.013
36	40	Koriya	Bharatpur	Devgarh To Poonji	Janua	BJJ	547	110.954	0.5	0.005
37	40	Koriya	Bharatpur	Devgarh To Poonji	Janua	BJJ	552	40.341	0.5	0.002
38	40	Koriya	Bharatpur	Devgarh To Poonji	Janua	BJJ	620	111.908	0.5	0.006
39	43	Koriya	Bharatpur	Larkoda To Bharatpur	Larkonda	CJJ	955	46.772	0.5	0.002
Total-							39	4876.023	0.5	0.244



वनमण्डलाधिकारी
वन मण्डल, भोनेन्द्रगढ़

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

Point	Patch	Longitud in D:M:S	Latitud in D:M:S	Point	Patch	Longitud in D:M:S	Latitud in D:M:S
P-1	1	81°52'04.83459"	23°36'12.03142"	P-51	4	81°50'23.51519"	23°36'47.07398"
P-2	1	81°51'59.42647"	23°36'15.40559"	P-52	4	81°50'17.21014"	23°36'49.66919"
P-3	1	81°52'25.83170"	23°35'49.71431"	P-53	4	81°50'10.55978"	23°36'48.76789"
P-4	1	81°52'21.09060"	23°35'54.49282"	P-54	4	81°50'05.23439"	23°36'44.50272"
P-5	1	81°52'21.57122"	23°35'59.95229"	P-55	4	81°49'59.78919"	23°36'40.36684"
P-6	1	81°52'26.72573"	23°36'02.18318"	P-56	4	81°49'54.56921"	23°36'36.03657"
P-7	1	81°52'21.41422"	23°36'01.98199"	P-57	4	81°49'52.27737"	23°36'30.01460"
P-8	1	81°52'16.46244"	23°35'57.73169"	P-58	4	81°49'47.60388"	23°36'25.27284"
P-9	1	81°52'18.15971"	23°35'52.21575"	P-59	4	81°49'42.70188"	23°36'22.17725"
P-10	1	81°52'16.87876"	23°35'47.88234"	P-60	4	81°49'36.20290"	23°36'23.59566"
P-11	1	81°52'13.81878"	23°35'53.60126"	P-61	4	81°49'30.56434"	23°36'19.68872"
P-12	1	81°52'10.21900"	23°35'58.61673"	P-62	4	81°49'28.43947"	23°36'18.28319"
P-13	1	81°52'09.98600"	23°36'04.07593"	P-63	5	81°47'59.17119"	23°35'28.22278"
P-14	1	81°53'21.90349"	23°35'25.89949"	P-64	5	81°47'54.77827"	23°35'31.09061"
P-15	1	81°53'15.18515"	23°35'27.30559"	P-65	5	81°47'48.02558"	23°35'32.48580"
P-16	1	81°53'08.31786"	23°35'28.79261"	P-66	5	81°47'41.47916"	23°35'34.88988"
P-17	1	81°53'05.30736"	23°35'33.94504"	P-67	5	81°47'34.76442"	23°35'36.63849"
P-18	1	81°52'58.58362"	23°35'34.42013"	P-68	5	81°47'27.78566"	23°35'36.79705"
P-19	1	81°52'51.63348"	23°35'34.07792"	P-69	5	81°47'21.05760"	23°35'34.96822"
P-20	1	81°52'44.76989"	23°35'35.54738"	P-70	5	81°47'17.28336"	23°35'33.54285"
P-21	1	81°52'38.48001"	23°35'38.46412"	P-71	6	81°47'10.21116"	23°35'31.39725"
P-22	1	81°52'31.97869"	23°35'40.83974"	P-72	6	81°47'03.22772"	23°35'30.60119"
P-23	1	81°53'24.79201"	23°35'24.04329"	P-73	6	81°46'56.17830"	23°35'30.38744"
P-24	1	81°53'24.79201"	23°35'24.04329"	P-74	6	81°46'50.06245"	23°35'31.87465"
P-25	1	81°53'21.90349"	23°35'25.89949"	P-75	7	81°46'42.64319"	23°35'37.47665"



Chhattisgarh BharatNet Phase-II Project

Point	Patch	Longitud in D:M:S	Latitud in D:M:S	Point	Patch	Longitud in D:M:S	Latitud in D:M:S
P-26	1	81°53'47.54988"	23°34'46.38674"	P-76	7	81°46'35.91543"	23°35'37.25577"
P-27	1	81°53'44.09733"	23°34'50.75184"	P-77	7	81°46'03.92696"	23°35'29.62764"
P-28	1	81°53'39.34063"	23°34'55.25578"	P-78	7	81°45'57.19586"	23°35'31.01436"
P-29	1	81°53'34.92146"	23°35'00.29313"	P-79	7	81°45'50.43555"	23°35'32.83273"
P-30	1	81°53'31.68505"	23°35'06.02507"	P-80	7	81°45'50.03957"	23°35'32.92837"
P-31	1	81°53'32.34365"	23°35'12.28355"	P-81	8	81°43'05.63424"	23°35'26.58024"
P-32	1	81°53'35.27922"	23°35'18.19637"	P-82	8	81°43'12.62632"	23°35'25.73238"
P-33	1	81°53'34.66580"	23°35'22.94038"	P-83	8	81°43'19.48901"	23°35'27.16499"
P-34	1	81°53'27.62993"	23°35'23.40703"	P-84	8	81°43'21.85800"	23°35'31.94618"
P-35	1	81°53'26.77851"	23°35'23.45430"	P-85	8	81°43'27.67300"	23°35'34.36876"
P-36	2	81°51'59.08696"	23°36'15.44545"	P-86	8	81°43'34.64100"	23°35'33.91944"
P-37	2	81°51'52.17445"	23°36'16.71986"	P-87	8	81°43'41.42544"	23°35'35.55804"
P-38	2	81°51'46.02854"	23°36'19.61172"	P-88	8	81°43'48.40767"	23°35'35.09466"
P-39	2	81°51'45.04153"	23°36'20.81995"	P-89	8	81°43'55.44865"	23°35'34.66888"
P-40	2	81°51'37.27166"	23°36'29.71166"	P-90	8	81°44'02.48848"	23°35'34.26239"
P-41	2	81°51'38.69011"	23°36'28.15404"	P-91	8	81°44'04.56075"	23°35'34.49102"
P-42	2	81°51'42.75280"	23°36'23.59011"	P-92	9	81°41'05.14414"	23°33'17.77848"
P-43	2	81°51'41.90967"	23°36'24.53106"	P-93	9	81°41'11.62134"	23°33'16.78715"
P-44	3	81°52'23.40033"	23°37'00.63726"	P-94	9	81°41'07.93248"	23°33'12.07575"
P-45	3	81°52'25.23716"	23°37'06.82897"	P-95	9	81°41'04.45935"	23°33'06.46654"
P-46	3	81°51'58.03114"	23°36'52.69462"	P-96	9	81°41'07.12556"	23°33'01.12784"
P-47	3	81°52'04.83903"	23°36'53.48887"	P-97	9	81°41'13.30822"	23°32'58.14120"
P-48	3	81°52'11.58945"	23°36'55.12018"	P-98	9	81°41'19.74343"	23°32'55.49585"
P-49	3	81°52'18.57158"	23°36'55.32502"	P-99	9	81°41'26.66386"	23°32'54.28023"
P-50	3	81°52'22.14281"	23°36'55.83814"	P-100	9	81°41'33.69240"	23°32'53.80387"
P-101	9	81°41'40.70710"	23°32'53.35598"	P-151	11	81°41'35.02374"	23°33'59.89952"
P-102	9	81°41'46.94139"	23°32'51.19114"	P-152	11	81°41'30.78431"	23°33'57.33712"
P-103	9	81°41'50.69514"	23°32'45.69574"	P-153	11	81°41'30.78431"	23°33'57.33712"

Chhattisgarh BharatNet Phase-II Project

Point	Patch	Longitud in D:M:S	Latitud in D:M:S	Point	Patch	Longitud in D:M:S	Latitud in D:M:S
P-104	9	81°41'53.25936"	23°32'40.50582"	P-154	11	81°41'24.13791"	23°33'55.93936"
P-105	9	81°41'54.48752"	23°32'41.37060"	P-155	11	81°41'17.24252"	23°33'56.52090"
P-106	9	81°41'52.99061"	23°32'40.20022"	P-156	11	81°41'11.79135"	23°33'54.88730"
P-107	9	81°41'50.91299"	23°32'45.37142"	P-157	12	81°42'57.21995"	23°35'38.37670"
P-108	9	81°41'47.15499"	23°32'50.86425"	P-158	12	81°42'51.15003"	23°35'39.21102"
P-109	9	81°41'41.10255"	23°32'53.26733"	P-159	12	81°42'50.11529"	23°35'45.60392"
P-110	9	81°41'34.09699"	23°32'53.77971"	P-160	12	81°42'50.23188"	23°35'52.10169"
P-111	9	81°41'27.06302"	23°32'54.20908"	P-161	12	81°42'50.37023"	23°35'58.59979"
P-112	9	81°41'20.13545"	23°32'55.39397"	P-162	12	81°42'49.69016"	23°35'35.26421"
P-113	9	81°41'13.67339"	23°32'57.97139"	P-163	12	81°42'50.41970"	23°35'36.15171"
P-114	9	81°41'07.44655"	23°33'00.89148"	P-164	12	81°42'51.69718"	23°35'37.96602"
P-115	9	81°41'04.31836"	23°33'06.10010"	P-165	12	81°42'07.33263"	23°39'02.92367"
P-116	9	81°41'07.66405"	23°33'11.77230"	P-166	12	81°42'00.34115"	23°39'02.27933"
P-117	9	81°41'11.81599"	23°33'16.44989"	P-167	12	81°41'54.03114"	23°39'04.59868"
P-118	9	81°41'05.54588"	23°33'17.81711"	P-168	12	81°41'49.04281"	23°39'09.18980"
P-119	9	81°41'05.14176"	23°33'17.77019"	P-169	12	81°41'42.23231"	23°39'10.09682"
P-120	10	81°40'10.78043"	23°32'36.57701"	P-170	12	81°41'35.17602"	23°39'10.25484"
P-121	10	81°40'07.43570"	23°32'30.85512"	P-171	12	81°41'29.86435"	23°39'13.70523"
P-122	10	81°40'04.15511"	23°32'25.10006"	P-172	12	81°41'25.35654"	23°39'18.69307"
P-123	10	81°40'00.26214"	23°32'19.68653"	P-173	12	81°41'23.46791"	23°39'24.75915"
P-124	10	81°39'55.82932"	23°32'14.63021"	P-174	12	81°41'22.40770"	23°39'31.11602"
P-125	10	81°39'54.69034"	23°32'13.46516"	P-175	12	81°41'20.12220"	23°39'32.89577"
P-126	10	81°40'21.07297"	23°32'48.22083"	P-176	12	81°42'08.32617"	23°37'46.85044"
P-127	10	81°40'16.46700"	23°32'43.29729"	P-177	12	81°42'11.30720"	23°37'52.14147"
P-128	10	81°40'11.96386"	23°32'38.29821"	P-178	12	81°42'09.76642"	23°37'58.27078"
P-129	10	81°39'33.17157"	23°32'28.82169"	P-179	12	81°42'11.53483"	23°38'04.53007"
P-130	10	81°39'27.17883"	23°32'31.38344"	P-180	12	81°42'10.99664"	23°38'10.30668"
P-131	10	81°39'25.49413"	23°32'30.29494"	P-181	12	81°42'06.85307"	23°38'14.98668"

Chhattisgarh BharatNet Phase-II Project

Point	Patch	Longitud in D:M:S	Latitud in D:M:S	Point	Patch	Longitud in D:M:S	Latitud in D:M:S
P-132	10	81°40'25.87479"	23°32'55.40165"	P-182	12	81°42'08.87436"	23°38'21.09323"
P-133	10	81°40'25.22808"	23°32'54.46429"	P-183	12	81°42'06.46014"	23°38'27.11563"
P-134	11	81°41'11.79135"	23°33'54.88730"	P-184	12	81°42'03.96978"	23°38'32.85150"
P-135	11	81°41'04.92087"	23°33'53.41334"	P-185	12	81°42'03.40060"	23°38'37.74968"
P-136	11	81°40'58.03602"	23°33'52.00349"	P-186	12	81°42'08.18259"	23°38'42.52065"
P-137	11	81°40'53.71413"	23°33'47.13130"	P-187	12	81°42'09.13712"	23°38'43.53731"
P-138	11	81°40'49.10261"	23°33'42.27215"	P-188	12	81°42'25.68681"	23°36'40.36667"
P-139	11	81°40'44.03559"	23°33'37.75878"	P-189	12	81°42'22.38311"	23°36'46.10540"
P-140	11	81°40'39.84362"	23°33'32.54226"	P-190	12	81°42'18.98782"	23°36'51.79682"
P-141	11	81°40'40.30733"	23°33'26.99604"	P-191	12	81°42'17.55581"	23°36'58.11168"
P-142	11	81°40'41.35584"	23°33'25.36883"	P-192	12	81°42'17.18895"	23°37'04.59840"
P-143	11	81°40'38.44654"	23°33'26.26423"	P-193	12	81°42'16.73707"	23°37'11.08581"
P-144	11	81°40'36.64139"	23°33'20.20587"	P-194	12	81°42'16.32016"	23°37'17.56319"
P-145	11	81°40'31.56147"	23°33'15.71217"	P-195	12	81°42'16.71417"	23°37'24.04062"
P-146	11	81°40'29.73581"	23°33'13.56938"	P-196	12	81°42'14.10208"	23°37'29.52533"
P-147	11	81°41'59.62989"	23°34'12.29223"	P-197	12	81°42'11.38382"	23°37'35.21451"
P-148	11	81°41'53.69152"	23°34'08.96804"	P-198	12	81°42'10.20682"	23°37'41.32606"
P-149	11	81°41'47.16845"	23°34'06.49348"	P-199	12	81°42'07.65240"	23°37'46.19341"
P-150	11	81°41'41.11993"	23°34'03.16808"	P-200	12	81°42'08.32617"	23°37'46.85044"
P-201	12	81°42'50.25927"	23°36'15.28135"	P-251	15	81°43'49.76187"	23°41'39.20225"
P-202	12	81°42'49.56017"	23°36'21.75008"	P-252	15	81°43'53.29228"	23°41'33.66584"
P-203	12	81°42'45.40396"	23°36'26.00644"	P-253	15	81°43'59.72304"	23°41'32.11404"
P-204	12	81°42'38.66867"	23°36'27.88158"	P-254	15	81°44'06.68323"	23°41'33.17620"
P-205	12	81°42'32.28865"	23°36'30.60947"	P-255	15	81°44'13.66149"	23°41'34.17051"
P-206	12	81°42'28.30981"	23°36'35.93203"	P-256	15	81°44'20.62989"	23°41'35.21139"
P-207	12	81°42'25.68681"	23°36'40.36667"	P-257	15	81°42'48.48021"	23°41'42.53952"
P-208	12	81°41'07.11081"	23°39'39.59712"	P-258	15	81°42'55.22162"	23°41'44.47593"
P-209	12	81°41'02.95217"	23°39'40.45461"	P-259	15	81°43'02.08193"	23°41'46.00983"

Chhattisgarh BharatNet Phase-II Project

Point	Patch	Longitud in D:M:S	Latitud in D:M:S	Point	Patch	Longitud in D:M:S	Latitud in D:M:S
P-210	12	81°42'50.44614"	23°36'01.68455"	P-260	15	81°43'08.94654"	23°41'47.51484"
P-211	12	81°42'50.65602"	23°36'08.18063"	P-261	15	81°43'15.95846"	23°41'48.13154"
P-212	12	81°42'50.33471"	23°36'14.67565"	P-262	15	81°43'20.34731"	23°41'48.19692"
P-213	12	81°42'50.25927"	23°36'15.28135"	P-263	16	81°44'30.68450"	23°41'34.23784"
P-214	12	81°42'09.13712"	23°38'43.53731"	P-264	16	81°44'37.01898"	23°41'31.47943"
P-215	12	81°42'11.76355"	23°38'49.26981"	P-265	16	81°44'40.22723"	23°41'26.16536"
P-216	12	81°42'12.27055"	23°38'55.75127"	P-266	16	81°44'41.48535"	23°41'19.76648"
P-217	12	81°42'14.61526"	23°39'01.58383"	P-267	16	81°44'41.61631"	23°41'13.30630"
P-218	12	81°42'08.36750"	23°39'02.93354"	P-268	16	81°44'43.47273"	23°41'07.03634"
P-219	12	81°42'07.33263"	23°39'02.92367"	P-269	16	81°44'42.89368"	23°41'03.36597"
P-220	12	81°41'20.12220"	23°39'32.89577"	P-270	16	81°44'44.34015"	23°41'00.70689"
P-221	12	81°41'16.46655"	23°39'37.82571"	P-271	16	81°44'50.21848"	23°40'57.10624"
P-222	12	81°41'09.56217"	23°39'39.13499"	P-272	16	81°44'50.80168"	23°40'56.64687"
P-223	12	81°41'07.11081"	23°39'39.59712"	P-273	17	81°45'52.39502"	23°41'17.15098"
P-224	12	81°41'02.95217"	23°39'40.45461"	P-274	17	81°45'54.56230"	23°41'23.33946"
P-225	12	81°40'56.09747"	23°39'42.00671"	P-275	17	81°45'47.37158"	23°41'08.81013"
P-226	12	81°40'49.46029"	23°39'44.20714"	P-276	17	81°45'49.11512"	23°41'09.06187"
P-227	12	81°40'49.04619"	23°39'44.31159"	P-277	17	81°45'56.07053"	23°41'26.98030"
P-228	12	81°42'59.61743"	23°35'34.11182"	P-278	17	81°46'01.41814"	23°41'31.16921"
P-229	12	81°42'57.21995"	23°35'38.37670"	P-279	17	81°46'07.32682"	23°41'34.63956"
P-230	12	81°42'47.08002"	23°35'34.08165"	P-280	17	81°46'10.67224"	23°41'39.44348"
P-231	12	81°42'44.57240"	23°35'33.05770"	P-281	17	81°46'07.64217"	23°41'44.72993"
P-232	12	81°42'47.08002"	23°35'34.08165"	P-282	17	81°46'07.19224"	23°41'46.92446"
P-233	13	81°39'25.08896"	23°39'10.94674"	P-283	17	81°45'49.11512"	23°41'09.06187"
P-234	13	81°39'25.13184"	23°39'09.18869"	P-284	17	81°45'51.86891"	23°41'14.23684"
P-235	13	81°39'19.77847"	23°39'10.14558"	P-285	17	81°44'53.96807"	23°40'49.55603"
P-236	13	81°39'12.85725"	23°39'08.86556"	P-286	17	81°44'58.93549"	23°40'45.40254"
P-237	13	81°39'05.92514"	23°39'07.63931"	P-287	17	81°45'05.68279"	23°40'43.76279"

Chhattisgarh BharatNet Phase-II Project

Point	Patch	Longitud in D:M:S	Latitud in D:M:S	Point	Patch	Longitud in D:M:S	Latitud in D:M:S
P-238	13	81°38'59.14391"	23°39'05.85504"	P-288	17	81°45'12.04543"	23°40'45.71114"
P-239	13	81°38'52.44943"	23°39'03.79163"	P-289	17	81°45'17.70468"	23°40'49.55674"
P-240	13	81°38'45.70915"	23°39'01.87011"	P-290	17	81°45'24.32703"	23°40'51.74726"
P-241	13	81°38'38.77578"	23°39'00.70791"	P-291	17	81°45'28.82876"	23°40'56.03792"
P-242	13	81°38'36.38396"	23°39'00.54928"	P-292	17	81°45'32.06495"	23°41'01.72848"
P-243	14	81°42'00.43333"	23°41'28.61764"	P-293	17	81°45'36.43517"	23°41'06.83178"
P-244	14	81°42'03.24732"	23°41'30.87205"	P-294	17	81°45'43.08679"	23°41'08.34394"
P-245	15	81°43'20.21736"	23°41'48.19415"	P-295	17	81°45'44.57579"	23°41'08.46295"
P-246	15	81°43'27.27530"	23°41'48.40322"	P-296	18	81°47'23.21644"	23°41'55.00252"
P-247	15	81°43'32.81773"	23°41'48.53997"	P-297	18	81°47'28.48580"	23°41'50.83435"
P-248	15	81°43'32.91192"	23°41'48.54086"	P-298	18	81°47'32.37851"	23°41'45.41133"
P-249	15	81°43'39.25734"	23°41'46.53284"	P-299	18	81°47'36.01212"	23°41'39.84669"
P-250	15	81°43'43.13696"	23°41'41.41291"	P-300	18	81°47'41.06843"	23°41'35.38024"
P-301	18	81°47'46.63287"	23°41'31.37736"	P-351	18	81°47'22.03809"	23°42'03.42413"
P-302	18	81°47'51.37945"	23°41'26.66924"	P-352	18	81°47'22.72093"	23°41'56.96773"
P-303	18	81°47'54.97363"	23°41'21.09369"	P-353	18	81°47'23.21644"	23°41'55.00252"
P-304	18	81°47'53.90686"	23°41'14.96591"	P-354	18	81°48'31.37015"	23°40'31.04907"
P-305	18	81°47'55.90393"	23°41'08.86527"	P-355	18	81°48'32.17331"	23°40'29.42838"
P-306	18	81°48'02.68876"	23°41'08.28148"	P-356	18	81°48'34.65146"	23°40'25.54490"
P-307	18	81°48'09.21433"	23°41'07.26560"	P-357	18	81°48'36.95098"	23°40'22.79117"
P-308	18	81°48'15.29357"	23°41'03.97378"	P-358	19	81°48'50.40173"	23°40'05.61957"
P-309	18	81°48'17.51181"	23°41'02.25617"	P-359	19	81°48'54.72569"	23°40'00.49119"
P-310	18	81°48'17.51181"	23°41'02.25617"	P-360	19	81°48'59.18843"	23°39'55.45711"
P-311	18	81°48'21.30084"	23°40'56.77477"	P-361	19	81°49'03.69718"	23°39'50.45355"
P-312	18	81°48'25.44201"	23°40'51.56316"	P-362	19	81°49'07.86726"	23°39'45.25113"
P-313	18	81°48'27.63134"	23°40'49.45404"	P-363	19	81°49'11.92346"	23°39'39.92913"
P-314	18	81°47'39.14341"	23°42'43.60359"	P-364	19	81°49'16.42095"	23°39'34.91792"
P-315	18	81°47'35.75232"	23°42'37.96362"	P-365	19	81°49'19.62763"	23°39'29.16382"

Chhattisgarh BharatNet Phase-II Project

Point	Patch	Longitud in D:M:S	Latitud in D:M:S	Point	Patch	Longitud in D:M:S	Latitud in D:M:S
P-316	18	81°47'22.44024"	23°42'32.98960"	P-366	19	81°49'21.74585"	23°39'26.13794"
P-317	18	81°47'19.88692"	23°42'29.42821"	P-367	19	81°48'41.53824"	23°40'17.38993"
P-318	18	81°47'36.41560"	23°42'38.67251"	P-368	19	81°48'45.93752"	23°40'12.30378"
P-319	18	81°47'00.85766"	23°42'07.72362"	P-369	19	81°48'47.57918"	23°40'10.25729"
P-320	18	81°47'07.63488"	23°42'09.53667"	P-370	20	81°49'28.56185"	23°39'06.99099"
P-321	18	81°47'11.30612"	23°42'14.87853"	P-371	20	81°49'30.51180"	23°39'01.35208"
P-322	18	81°47'11.81379"	23°42'21.33946"	P-372	20	81°49'36.71914"	23°38'58.25605"
P-323	18	81°47'12.15362"	23°42'27.83305"	P-373	20	81°49'42.99102"	23°38'55.28061"
P-324	18	81°47'16.92257"	23°42'31.29738"	P-374	20	81°49'49.34973"	23°38'52.49502"
P-325	18	81°47'23.21748"	23°42'33.74201"	P-375	20	81°49'56.38764"	23°38'52.02371"
P-326	18	81°47'23.66572"	23°42'34.07301"	P-376	20	81°50'03.07107"	23°38'50.33332"
P-327	18	81°48'27.63134"	23°40'49.45404"	P-377	20	81°50'08.82180"	23°38'46.56374"
P-328	18	81°48'28.96807"	23°40'43.46887"	P-378	20	81°50'14.53065"	23°38'42.75041"
P-329	18	81°48'29.29545"	23°40'37.00343"	P-379	20	81°50'18.55991"	23°38'37.41818"
P-330	18	81°48'30.10251"	23°40'34.14769"	P-380	20	81°50'22.00990"	23°38'31.74724"
P-331	18	81°46'07.41306"	23°41'48.91178"	P-381	20	81°50'26.05016"	23°38'26.48008"
P-332	18	81°46'09.73747"	23°41'54.93706"	P-382	20	81°50'30.80199"	23°38'21.67968"
P-333	18	81°46'11.94312"	23°42'00.85385"	P-383	20	81°50'34.30841"	23°38'16.04495"
P-334	18	81°46'11.62134"	23°42'02.70516"	P-384	20	81°50'37.37778"	23°38'10.20772"
P-335	18	81°46'11.62134"	23°42'02.70516"	P-385	20	81°50'38.16513"	23°38'08.19727"
P-336	18	81°46'14.52430"	23°42'08.55248"	P-386	21	81°50'46.74281"	23°37'46.68595"
P-337	18	81°46'19.82695"	23°42'12.64666"	P-387	21	81°50'48.76690"	23°37'40.45649"
P-338	18	81°46'24.49665"	23°42'17.49542"	P-388	21	81°50'50.82389"	23°37'34.32381"
P-339	18	81°46'30.39339"	23°42'19.62979"	P-389	21	81°50'53.90592"	23°37'28.47434"
P-340	18	81°46'35.01747"	23°42'16.48230"	P-390	21	81°50'56.67453"	23°37'22.50440"
P-341	18	81°46'35.01747"	23°42'16.48230"	P-391	21	81°50'58.63895"	23°37'16.26348"
P-342	18	81°46'38.89959"	23°42'11.07885"	P-392	21	81°50'59.23697"	23°37'09.86644"
P-343	18	81°46'42.76864"	23°42'05.64100"	P-393	21	81°50'59.16967"	23°37'08.19888"

Chhattisgarh BharatNet Phase-II Project

Point	Patch	Longitud in D:M:S	Latitud in D:M:S	Point	Patch	Longitud in D:M:S	Latitud in D:M:S
P-344	18	81°46'49.26123"	23°42'04.96575"	P-394	22	81°57'19.25462"	23°41'16.05213"
P-345	18	81°46'56.11642"	23°42'06.51443"	P-395	22	81°57'22.01480"	23°41'10.06798"
P-346	18	81°46'59.77402"	23°42'07.44512"	P-396	22	81°57'24.81131"	23°41'04.09939"
P-347	18	81°47'21.04446"	23°42'28.77151"	P-397	22	81°57'28.20416"	23°40'58.41453"
P-348	18	81°47'22.46047"	23°42'22.92829"	P-398	22	81°57'31.16960"	23°40'52.59321"
P-349	18	81°47'22.25558"	23°42'16.42814"	P-399	22	81°57'37.68434"	23°40'50.30243"
P-350	18	81°47'22.10588"	23°42'09.92676"	P-400	22	81°57'42.79775"	23°40'45.92411"
P-401	22	81°57'40.93392"	23°40'47.69692"	P-451	24	81°56'25.58966"	23°42'30.58435"
P-402	22	81°57'34.89088"	23°40'50.81410"	P-452	24	81°56'30.43986"	23°42'25.85783"
P-403	22	81°57'29.46457"	23°40'54.39351"	P-453	24	81°56'36.37284"	23°42'22.43580"
P-404	22	81°57'26.74505"	23°41'00.35696"	P-454	24	81°56'42.63865"	23°42'19.43699"
P-405	22	81°57'23.49823"	23°41'06.11634"	P-455	24	81°56'48.92383"	23°42'16.47402"
P-406	22	81°57'20.77347"	23°41'12.11488"	P-456	24	81°56'55.16216"	23°42'13.42729"
P-407	22	81°57'19.01949"	23°41'15.92087"	P-457	24	81°57'01.38211"	23°42'10.34886"
P-408	22	81°57'48.22182"	23°40'34.16621"	P-458	24	81°57'07.62345"	23°42'07.30707"
P-409	22	81°57'53.04625"	23°40'29.61369"	P-459	24	81°57'11.69926"	23°41'57.24861"
P-410	22	81°57'59.67813"	23°40'27.55254"	P-460	24	81°57'12.19912"	23°42'03.73455"
P-411	22	81°58'02.11478"	23°40'26.68367"	P-461	24	81°57'12.49374"	23°42'05.08517"
P-412	22	81°57'55.30796"	23°40'28.22725"	P-462	24	81°57'30.55602"	23°42'02.09472"
P-413	22	81°57'49.43969"	23°40'31.78678"	P-463	24	81°57'37.48894"	23°42'00.85944"
P-414	22	81°57'47.98249"	23°40'34.03378"	P-464	24	81°57'44.41518"	23°41'59.59183"
P-415	22	81°57'16.04884"	23°41'22.70118"	P-465	24	81°57'51.33529"	23°41'58.29831"
P-416	22	81°57'18.92703"	23°41'16.79771"	P-466	24	81°57'58.24322"	23°41'59.48592"
P-417	22	81°57'19.25462"	23°41'16.05213"	P-467	24	81°58'05.11474"	23°42'00.98414"
P-418	22	81°57'19.01949"	23°41'15.92087"	P-468	24	81°58'11.96237"	23°42'02.57333"
P-419	22	81°57'16.23621"	23°41'21.88020"	P-469	24	81°58'18.82310"	23°42'04.11242"
P-420	22	81°57'15.81784"	23°41'22.56113"	P-470	24	81°58'25.79325"	23°42'05.07594"
P-421	23	82°00'21.96339"	23°42'19.94619"	P-471	24	81°58'29.57930"	23°42'05.38191"

Chhattisgarh BharatNet Phase-II Project

Point	Patch	Longitud in D:M:S	Latitud in D:M:S	Point	Patch	Longitud in D:M:S	Latitud in D:M:S
P-422	23	82°00'28.68749"	23°42'18.16326"	P-472	24	81°55'59.82619"	23°42'42.43083"
P-423	23	82°00'35.59277"	23°42'17.06475"	P-473	24	81°56'05.35425"	23°42'38.38669"
P-424	23	82°00'42.62640"	23°42'17.07123"	P-474	24	81°56'11.98515"	23°42'36.20305"
P-425	23	82°00'49.66627"	23°42'16.75152"	P-475	24	81°56'13.11666"	23°42'35.95051"
P-426	23	82°00'56.69469"	23°42'16.19888"	P-476	24	81°57'11.88621"	23°41'56.15773"
P-427	23	82°01'03.22930"	23°42'13.75103"	P-477	24	81°57'11.59009"	23°41'55.85395"
P-428	23	82°01'09.90046"	23°42'14.30351"	P-478	25	81°52'00.29744"	23°43'08.54429"
P-429	23	82°01'15.40636"	23°42'15.29474"	P-479	25	81°52'07.32870"	23°43'08.87833"
P-430	23	82°01'23.93780"	23°42'24.06879"	P-480	25	81°52'14.00980"	23°43'07.93495"
P-431	23	82°01'28.34061"	23°42'28.77003"	P-481	25	81°52'20.07956"	23°43'04.93090"
P-432	23	82°01'33.16817"	23°42'32.75645"	P-482	25	81°52'22.75130"	23°43'07.78919"
P-433	23	82°01'39.74614"	23°42'35.07793"	P-483	25	81°52'22.75130"	23°43'07.78919"
P-434	23	82°01'46.47587"	23°42'36.73942"	P-484	25	81°52'29.38432"	23°43'08.72737"
P-435	23	82°01'48.95389"	23°42'41.96753"	P-485	25	81°52'36.44095"	23°43'08.65430"
P-436	23	82°01'48.47976"	23°42'48.44907"	P-486	25	81°52'43.50344"	23°43'08.59514"
P-437	23	82°01'50.11424"	23°42'50.16216"	P-487	25	81°52'50.56548"	23°43'08.51175"
P-438	23	82°01'15.40636"	23°42'15.29474"	P-488	25	81°53'01.59600"	23°43'05.78224"
P-439	23	82°01'20.11466"	23°42'20.10210"	P-489	25	81°53'08.37614"	23°43'03.96135"
P-440	23	82°01'23.93780"	23°42'24.06879"	P-490	25	81°53'15.15027"	23°43'02.12121"
P-441	23	82°00'17.93885"	23°42'20.38657"	P-491	25	81°53'38.02693"	23°43'00.71805"
P-442	23	82°00'21.96339"	23°42'19.94619"	P-492	25	81°53'45.08106"	23°43'01.03990"
P-443	23	81°59'29.86086"	23°41'36.75891"	P-493	25	81°53'52.13406"	23°43'01.37805"
P-444	23	81°59'30.09815"	23°41'37.13766"	P-494	25	81°53'59.19078"	23°43'01.43202"
P-445	24	81°57'12.59053"	23°42'05.04319"	P-495	25	81°54'06.24163"	23°43'01.06019"
P-446	24	81°57'19.28721"	23°42'03.82190"	P-496	25	81°54'13.28884"	23°43'00.63343"
P-447	24	81°57'26.26247"	23°42'02.80911"	P-497	25	81°54'15.39172"	23°43'00.52878"
P-448	24	81°57'12.36620"	23°42'02.53208"	P-498	25	81°54'24.18532"	23°42'59.78841"
P-449	24	81°57'12.68881"	23°42'05.00057"	P-499	25	81°54'27.96151"	23°42'56.99834"

Chhattisgarh BharatNet Phase-II Project

Point	Patch	Longitud in D:M:S	Latitud in D:M:S	Point	Patch	Longitud in D:M:S	Latitud in D:M:S
P-450	24	81°56'19.60588"	23°42'33.78558"	P-500	25	81°54'32.28702"	23°42'53.72800"
P-501	25	81°54'34.97227"	23°42'53.22986"	P-551	28	81°46'17.62206"	23°44'40.48476"
P-502	26	81°48'15.88149"	23°42'54.54571"	P-552	28	81°46'18.55823"	23°44'36.32943"
P-503	26	81°48'22.86883"	23°42'55.49070"	P-553	28	81°46'17.62785"	23°44'40.08269"
P-504	26	81°48'29.88370"	23°42'55.55778"	P-554	28	81°46'17.62206"	23°44'40.48476"
P-505	26	81°48'36.85364"	23°42'54.52317"	P-555	28	81°46'17.72031"	23°44'42.45037"
P-506	26	81°48'43.69838"	23°42'52.95157"	P-556	29	81°47'57.13710"	23°45'28.23404"
P-507	26	81°48'49.52694"	23°42'49.54330"	P-557	29	81°48'03.56882"	23°45'30.90537"
P-508	26	81°48'56.05448"	23°42'47.07253"	P-558	29	81°48'09.61664"	23°45'34.25915"
P-509	26	81°48'59.05412"	23°42'44.79618"	P-559	29	81°48'16.05780"	23°45'36.86837"
P-510	26	81°48'07.57392"	23°42'52.46650"	P-560	29	81°48'22.58196"	23°45'39.00911"
P-511	26	81°48'14.35136"	23°42'54.27455"	P-561	29	81°48'29.62420"	23°45'38.55753"
P-512	26	81°48'15.88149"	23°42'54.54571"	P-562	29	81°48'36.55643"	23°45'37.60840"
P-513	26	81°49'00.10859"	23°42'44.04369"	P-563	29	81°48'42.46525"	23°45'34.95541"
P-514	26	81°49'06.52298"	23°42'43.43391"	P-564	29	81°48'48.95345"	23°45'32.71836"
P-515	26	81°49'08.97046"	23°42'49.34621"	P-565	29	81°48'55.29284"	23°45'30.02033"
P-516	26	81°49'09.01610"	23°42'51.64711"	P-566	29	81°49'02.11296"	23°45'28.34654"
P-517	26	81°49'09.01610"	23°42'51.64711"	P-567	29	81°49'09.00692"	23°45'26.93207"
P-518	26	81°49'15.11228"	23°42'53.38688"	P-568	29	81°49'15.29253"	23°45'24.56509"
P-519	26	81°49'22.14999"	23°42'53.93125"	P-569	29	81°49'20.27423"	23°45'20.29838"
P-520	26	81°49'28.93232"	23°42'55.66347"	P-570	29	81°47'43.01687"	23°45'12.37987"
P-521	26	81°49'34.97780"	23°42'58.94818"	P-571	29	81°47'46.08386"	23°45'16.99662"
P-522	26	81°49'40.88826"	23°43'02.45733"	P-572	29	81°45'05.08710"	23°46'23.16903"
P-523	26	81°49'47.76040"	23°43'03.43302"	P-573	29	81°44'32.92290"	23°46'33.24181"
P-524	26	81°49'54.39100"	23°43'05.67167"	P-574	29	81°44'27.02803"	23°46'35.13783"
P-525	26	81°50'01.24468"	23°43'06.41959"	P-575	29	81°46'08.36936"	23°45'12.20051"
P-526	26	81°50'08.22248"	23°43'07.16100"	P-576	29	81°46'08.16023"	23°45'18.64428"
P-527	26	81°50'14.34132"	23°43'10.06506"	P-577	29	81°46'08.69136"	23°45'24.97683"

Chhattisgarh BharatNet Phase-II Project

Point	Patch	Longitud in D:M:S	Latitud in D:M:S	Point	Patch	Longitud in D:M:S	Latitud in D:M:S
P-528	26	81°50'21.04074"	23°43'11.15984"	P-578	29	81°46'07.25583"	23°45'31.30061"
P-529	26	81°49'00.10859"	23°42'44.04369"	P-579	29	81°46'06.48139"	23°45'37.75654"
P-530	26	81°50'32.84675"	23°43'10.94955"	P-580	29	81°46'06.18417"	23°45'44.20645"
P-531	26	81°50'34.72292"	23°43'10.44205"	P-581	29	81°46'08.28906"	23°45'48.95729"
P-532	27	81°46'59.74038"	23°43'23.00538"	P-582	30	81°44'32.67104"	23°48'32.51787"
P-533	27	81°46'55.02658"	23°43'27.82202"	P-583	30	81°44'32.01847"	23°48'38.91101"
P-534	27	81°46'52.80781"	23°43'33.86109"	P-584	30	81°44'30.90675"	23°48'45.20676"
P-535	27	81°46'47.11021"	23°43'37.70411"	P-585	30	81°44'30.48760"	23°48'51.53237"
P-536	27	81°46'42.45868"	23°43'42.48414"	P-586	30	81°44'28.64580"	23°48'57.55822"
P-537	27	81°46'38.55938"	23°43'47.38500"	P-587	30	81°44'24.34290"	23°49'02.18939"
P-538	27	81°46'55.64447"	23°43'27.30929"	P-588	30	81°44'32.93710"	23°48'30.90606"
P-539	27	81°46'53.60098"	23°43'33.47548"	P-589	30	81°44'32.67104"	23°48'32.51787"
P-540	27	81°46'47.97761"	23°43'37.39691"	P-590	30	81°44'33.82296"	23°48'24.78691"
P-541	27	81°46'43.38573"	23°43'42.26411"	P-591	30	81°44'33.71789"	23°48'26.32077"
P-542	27	81°46'39.09549"	23°43'46.87187"	P-592	30	81°44'33.32153"	23°48'22.11304"
P-543	27	81°46'38.56016"	23°43'48.26693"	P-593	30	81°44'33.82069"	23°48'24.61878"
P-544	28	81°47'04.04659"	23°44'25.77102"	P-594	30	81°44'31.24841"	23°48'16.93473"
P-545	28	81°47'10.20034"	23°44'28.27470"	P-595	30	81°44'31.40689"	23°48'17.48200"
P-546	28	81°47'16.51661"	23°44'30.80855"	P-596	30	81°44'30.42300"	23°48'14.99927"
P-547	28	81°47'21.38224"	23°44'35.45495"	P-597	30	81°44'31.20528"	23°48'16.75401"
P-548	28	81°47'24.37055"	23°44'41.31120"	P-598	30	81°44'33.71789"	23°48'26.32077"
P-549	28	81°47'26.42525"	23°44'45.24702"	P-599	30	81°44'32.93710"	23°48'30.90606"
P-550	28	81°46'17.62785"	23°44'40.08269"	P-600	31	81°44'09.02289"	23°49'25.82787"
P-601	31	81°44'05.30462"	23°49'31.34660"	P-651	36	81°40'32.09996"	23°49'13.18323"
P-602	31	81°44'04.42106"	23°49'36.98722"	P-652	36	81°40'25.43620"	23°49'11.58578"
P-603	31	81°44'04.42106"	23°49'36.98722"	P-653	36	81°40'19.97124"	23°49'07.62527"
P-604	31	81°44'07.46487"	23°49'42.75324"	P-654	36	81°40'14.82580"	23°49'06.78636"
P-605	31	81°44'07.18489"	23°49'45.64195"	P-655	36	81°40'12.57437"	23°49'12.91155"

Chhattisgarh BharatNet Phase-II Project

Point	Patch	Longitud in D:M:S	Latitud in D:M:S	Point	Patch	Longitud in D:M:S	Latitud in D:M:S
P-606	31	81°44'00.24750"	23°49'44.91787"	P-656	36	81°40'11.38070"	23°49'15.77837"
P-607	31	81°43'56.50071"	23°49'49.26436"	P-657	36	81°40'34.68578"	23°49'13.36922"
P-608	31	81°44'09.62546"	23°49'22.42722"	P-658	36	81°40'27.73170"	23°49'12.72603"
P-609	31	81°44'09.12286"	23°49'25.64515"	P-659	36	81°40'22.16291"	23°49'08.85524"
P-610	31	81°44'19.31313"	23°49'12.93363"	P-660	36	81°40'16.85143"	23°49'05.34364"
P-611	31	81°44'16.09492"	23°49'13.58234"	P-661	36	81°40'13.33310"	23°49'10.57899"
P-612	31	81°44'22.84052"	23°49'10.56532"	P-662	36	81°40'11.38070"	23°49'15.77837"
P-613	31	81°44'22.42094"	23°49'09.73474"	P-663	37	81°40'28.70460"	23°47'38.53190"
P-614	32	81°43'28.53708"	23°50'22.39836"	P-664	37	81°40'29.86152"	23°47'44.87014"
P-615	32	81°43'25.31464"	23°50'27.83478"	P-665	37	81°40'33.20305"	23°47'50.60019"
P-616	32	81°43'20.74989"	23°50'32.61979"	P-666	37	81°40'36.49644"	23°47'56.35012"
P-617	32	81°43'18.83672"	23°50'38.74945"	P-667	37	81°40'36.04258"	23°48'02.78959"
P-618	32	81°43'18.14896"	23°50'42.84145"	P-668	37	81°40'36.62256"	23°48'09.06675"
P-619	32	81°42'57.35219"	23°51'09.57736"	P-669	37	81°40'37.47486"	23°48'15.40423"
P-620	32	81°42'56.10590"	23°51'10.32144"	P-670	37	81°40'38.00798"	23°48'21.88734"
P-621	32	81°43'16.90827"	23°50'46.13949"	P-671	37	81°40'38.91539"	23°48'28.07780"
P-622	32	81°43'12.64177"	23°50'51.17142"	P-672	37	81°40'41.29742"	23°48'33.09797"
P-623	32	81°43'12.52202"	23°50'53.73736"	P-673	37	81°40'41.29742"	23°48'33.09797"
P-624	33	81°42'04.66614"	23°51'47.48592"	P-674	37	81°40'40.99311"	23°48'39.48972"
P-625	33	81°41'59.52982"	23°51'43.07374"	P-675	37	81°40'41.55612"	23°48'42.85663"
P-626	33	81°41'53.86542"	23°51'39.24230"	P-676	37	81°40'30.53834"	23°47'33.22076"
P-627	33	81°41'47.96862"	23°51'35.65687"	P-677	37	81°40'42.32697"	23°47'16.35069"
P-628	33	81°41'41.49965"	23°51'33.08513"	P-678	37	81°40'37.80807"	23°47'21.34948"
P-629	33	81°41'34.70732"	23°51'32.20699"	P-679	37	81°40'33.31282"	23°47'26.36365"
P-630	33	81°41'28.11703"	23°51'30.05057"	P-680	37	81°40'32.27900"	23°47'28.57918"
P-631	33	81°41'21.57809"	23°51'29.10792"	P-681	38	81°41'41.77378"	23°47'23.37149"
P-632	33	81°41'16.42615"	23°51'25.88191"	P-682	38	81°41'48.39553"	23°47'24.95655"
P-633	33	81°41'15.94855"	23°51'22.30541"	P-683	38	81°41'48.61013"	23°47'31.33448"

Chhattisgarh BharatNet Phase-II Project

Point	Patch	Longitud in D:M:S	Latitud in D:M:S	Point	Patch	Longitud in D:M:S	Latitud in D:M:S
P-634	33	81°41'15.94855"	23°51'22.30541"	P-684	38	81°41'48.63535"	23°47'31.60340"
P-635	33	81°41'14.76860"	23°51'15.92545"	P-685	38	81°41'41.77378"	23°47'23.37149"
P-636	33	81°41'12.29100"	23°51'09.90846"	P-686	38	81°41'48.39553"	23°47'24.95655"
P-637	33	81°41'09.93561"	23°51'06.45772"	P-687	38	81°41'48.61013"	23°47'31.33448"
P-638	34	81°40'33.52029"	23°50'47.97872"	P-688	38	81°41'48.63535"	23°47'31.60340"
P-639	34	81°40'28.01434"	23°50'52.05440"	P-689	38	81°41'40.55455"	23°47'56.90771"
P-640	34	81°40'23.14446"	23°50'55.55285"	P-690	38	81°41'38.29641"	23°47'57.90299"
P-641	34	81°40'23.14446"	23°50'55.55285"	P-691	38	81°41'20.12910"	23°47'17.29770"
P-642	34	81°40'17.63429"	23°50'59.62495"	P-692	38	81°41'26.32121"	23°47'20.42044"
P-643	34	81°40'11.18768"	23°51'02.27373"	P-693	38	81°41'32.39109"	23°47'23.65047"
P-644	34	81°40'04.63168"	23°51'04.70646"	P-694	38	81°41'39.13469"	23°47'24.34731"
P-645	34	81°40'01.53970"	23°51'09.91412"	P-695	38	81°41'41.77378"	23°47'23.37149"
P-646	34	81°39'57.45554"	23°51'14.58135"	P-696	38	81°41'40.55455"	23°47'56.90771"
P-647	34	81°39'53.33920"	23°51'15.75079"	P-697	38	81°41'38.29641"	23°47'57.90299"
P-648	35	81°40'10.57133"	23°49'17.63252"	P-698	38	81°41'20.12910"	23°47'17.29770"
P-649	35	81°40'10.57133"	23°49'17.63252"	P-699	38	81°41'26.32121"	23°47'20.42044"
P-650	36	81°40'46.93735"	23°49'05.24326"	P-700	38	81°41'32.39109"	23°47'23.65047"
P-701	38	81°41'39.13469"	23°47'24.34731"	P-730	41	81°42'51.03349"	23°45'10.39879"
P-702	38	81°41'41.77378"	23°47'23.37149"	P-731	41	81°42'54.88731"	23°45'15.84830"
P-703	39	81°40'53.41794"	23°46'49.87005"	P-732	41	81°42'59.31701"	23°45'20.90229"
P-704	39	81°40'51.97669"	23°46'56.23031"	P-733	41	81°43'00.99910"	23°45'26.64081"
P-705	39	81°40'50.49448"	23°47'02.58836"	P-734	41	81°43'02.78469"	23°45'32.86827"
P-706	39	81°40'51.20312"	23°47'05.22938"	P-735	41	81°43'01.91075"	23°45'30.73944"
P-707	39	81°40'50.31366"	23°47'03.39076"	P-736	41	81°43'01.41470"	23°45'24.39576"
P-708	40	81°41'58.33128"	23°45'44.04260"	P-737	41	81°42'57.67835"	23°45'19.19561"
P-709	40	81°41'57.56186"	23°45'37.61406"	P-738	41	81°42'53.54762"	23°45'13.93398"
P-710	40	81°41'58.53797"	23°45'34.81311"	P-739	41	81°42'52.59481"	23°45'12.59426"
P-711	40	81°41'53.69594"	23°45'55.95560"	P-740	42	81°44'42.04203"	23°44'37.24671"

Chhattisgarh BharatNet Phase-II Project

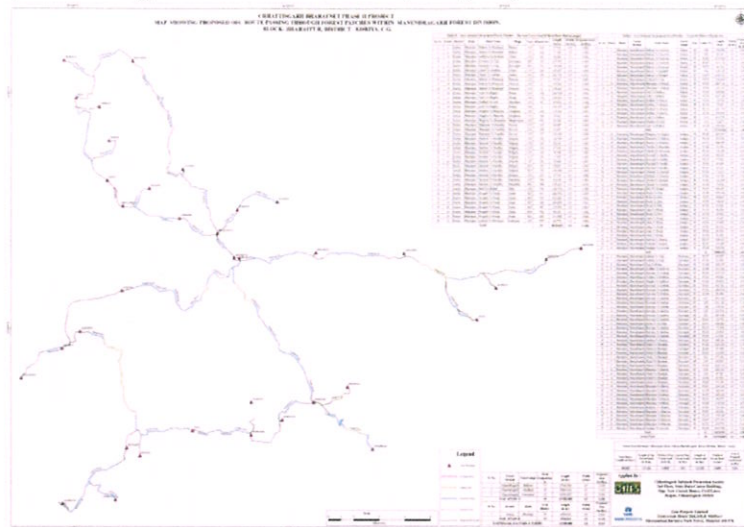
Point	Patch	Longitud in D:M:S	Latitud in D:M:S	Point	Patch	Longitud in D:M:S	Latitud in D:M:S
P-712	40	81°41'58.53726"	23°45'51.21939"	P-741	42	81°44'35.10971"	23°44'38.42857"
P-713	40	81°41'58.57799"	23°45'45.11268"	P-742	42	81°44'28.40379"	23°44'40.45090"
P-714	40	81°41'58.33128"	23°45'44.04260"	P-743	42	81°44'21.56848"	23°44'38.98937"
P-715	40	81°41'43.86533"	23°46'05.02480"	P-744	42	81°44'14.52450"	23°44'38.55555"
P-716	40	81°41'48.94986"	23°46'00.51062"	P-745	42	81°44'07.70979"	23°44'39.54712"
P-717	40	81°41'50.33946"	23°45'59.18484"	P-746	42	81°44'01.27745"	23°44'42.23523"
P-718	40	81°41'37.83030"	23°46'10.29044"	P-747	42	81°43'59.00992"	23°44'43.19770"
P-719	40	81°41'43.86533"	23°46'05.02480"	P-748	43	81°45'59.48232"	23°43'54.65742"
P-720	40	81°41'35.29381"	23°46'12.55491"	P-749	43	81°45'53.74680"	23°43'57.82604"
P-721	40	81°41'36.31675"	23°46'11.64162"	P-750	43	81°45'48.66105"	23°44'02.29742"
P-722	40	81°41'22.85789"	23°46'23.53646"	P-751	43	81°45'41.97709"	23°44'04.37121"
P-723	40	81°41'19.70774"	23°46'25.70688"	P-752	43	81°45'35.28382"	23°44'06.41580"
P-724	41	81°43'19.99779"	23°44'47.62169"	P-753	43	81°45'29.67059"	23°44'10.35327"
P-725	41	81°43'15.43634"	23°44'52.34426"	P-754	43	81°45'26.27417"	23°44'15.89705"
P-726	41	81°43'09.56544"	23°44'55.96129"	P-755	43	81°45'21.77875"	23°44'20.69553"
P-727	41	81°43'03.72387"	23°44'59.61841"	P-756	43	81°45'20.59304"	23°44'25.44296"
P-728	41	81°42'57.85096"	23°45'03.23266"	P-757	43	81°45'17.73585"	23°44'28.23545"
P-729	41	81°42'52.02118"	23°45'06.90535"	P-758	43	81°45'16.58477"	23°44'29.32626"

वनमण्डलाधिकारी
वन मण्डल मनेन्द्रगढ़



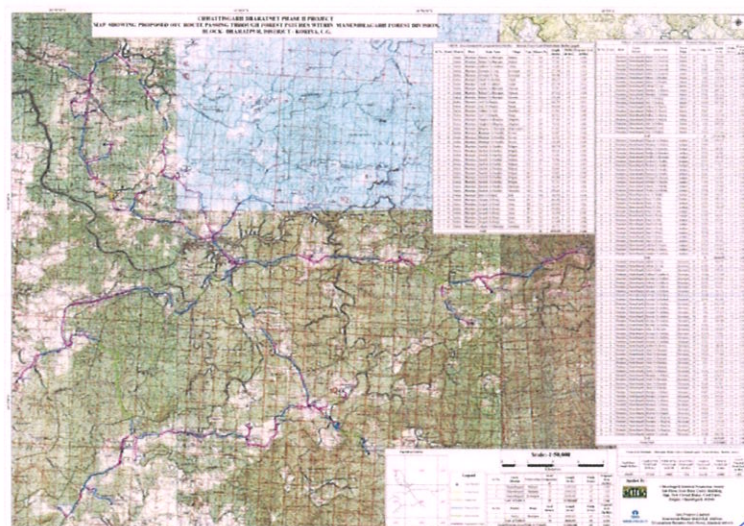
5.3. Geo-Referenced Maps of the Proposed Route (Annexure-3)

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



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

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



Geo-Referenced Toposheet Map of Forest Patched of Farsabahr Block in Manendragarh Forest Division.

ॐॐॐॐ

