

कार्यालय वन मण्डलाधिकारी कांकेर वन मण्डल कांकेर

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क्रमांक/मा.चि./2019/ 6776
प्रति,

कांकेर, दिनांक 23/09/2019

प्राधिकृत अधिकारी
टाटा प्रोजेक्ट्स लिमिटेड
रायपुर (छत्तीसगढ़)

- विषय – भारत सरकार की महत्वपूर्ण योजना “भारतनेट प्रोजेक्ट (APart of Digital India)” के सफल क्रियान्वयन हेतु कांकेर जिला के कांकेर वन मण्डल अन्तर्गत चारामा तथा नरहरपुर ब्लॉक के अन्तर्गत शामिल ग्राम पंचायत के मार्ग समानांतर रकबा 4.530 हैं. वन भूमि पर ऑप्टिकल फायबर केबल बिछाने विषयक वन भूमि के गैरवानिकी प्रयोजन हेतु व्यपवर्तन प्रस्ताव हेतु डी.जी.पी.एस./लेडार सर्वे रिपोर्ट के सत्यापन बाबत।
- संदर्भ – आपका कार्यालयीन पत्र क्रमांक/05 दिनांक 12.09.2019।

–00–

विषयान्तर्गत प्रतिवेदन है कि, भारत सरकार की महत्वपूर्ण योजना “भारतनेट प्रोजेक्ट (APart of Digital India)” के सफल क्रियान्वयन हेतु कांकेर जिला के कांकेर वन मण्डल अन्तर्गत आने वाले परिक्षेत्र चारामा/नरहरपुर/कांकेर/सरोना के वन कक्षाओं में ऑप्टिकल फायबर केबल लाईन बिछाने हेतु प्रस्तावित क्षेत्रों का निरीक्षण मेरे द्वारा किया गया। निरीक्षण उपरान्त डी.जी.पी.एस./लेडार सर्वे रिपोर्ट अनुमोदन पश्चात् आपकी ओर आवश्यक कार्यवाही हेतु प्रेषित है।

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

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

प्रतिवेदन सूचनार्थ प्रेषित।

संलग्न – डी.जी.पी.एस./लेडार सर्वे रिपोर्ट का सत्यापित 02 प्रति मूलतः।


वन मण्डलाधिकारी


कांकेर वन मण्डल कांकेर

पृ.क्रमांक/मा.चि./2019/ 6777

कांकेर, दिनांक 23/09/2019

प्रतिलिपि -

01. अपर प्रधान मुख्य वन संरक्षक (भू-प्रबंध/व.सं.अ.) अरण्य भवन, सेक्टर-19, नार्थ ब्लॉक, कैपिटल कॉम्प्लेक्स, अटल नगर रायपुर छत्तीसगढ़ को सूचनार्थ सम्प्रेषित।
02. मुख्य वन संरक्षक, कांकेर वृत्त कांकेर की ओर सूचनार्थ सम्प्रेषित।


वन मण्डलाधिकारी
कांकेर वन मण्डल कांकेर

CHHATTISGARH BHARATNET PHASE-II PROJECT

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

Forest Division : KANKER FOREST DIVISION
Forest Land (RF/PF/OA) : 4.144 Ha.
Rev. Forest Land : 0.386 Ha.
Total Proposed Diversion Area : 4.530 Ha.
Block : CHARAMA AND NARHARPUR
District : KANKER (C.G.)

Applicant -




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

Submitted By -



TATA PROJECTS

Tata Projects Limited, Raipur (Chhattisgarh)


R. K. Netam
Technical Officer
(T) Forest Division
Kanker (C.G.)


Divisional Forest Officer
Forest Division Kanker



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1. Introduction and Background

1.1. Background

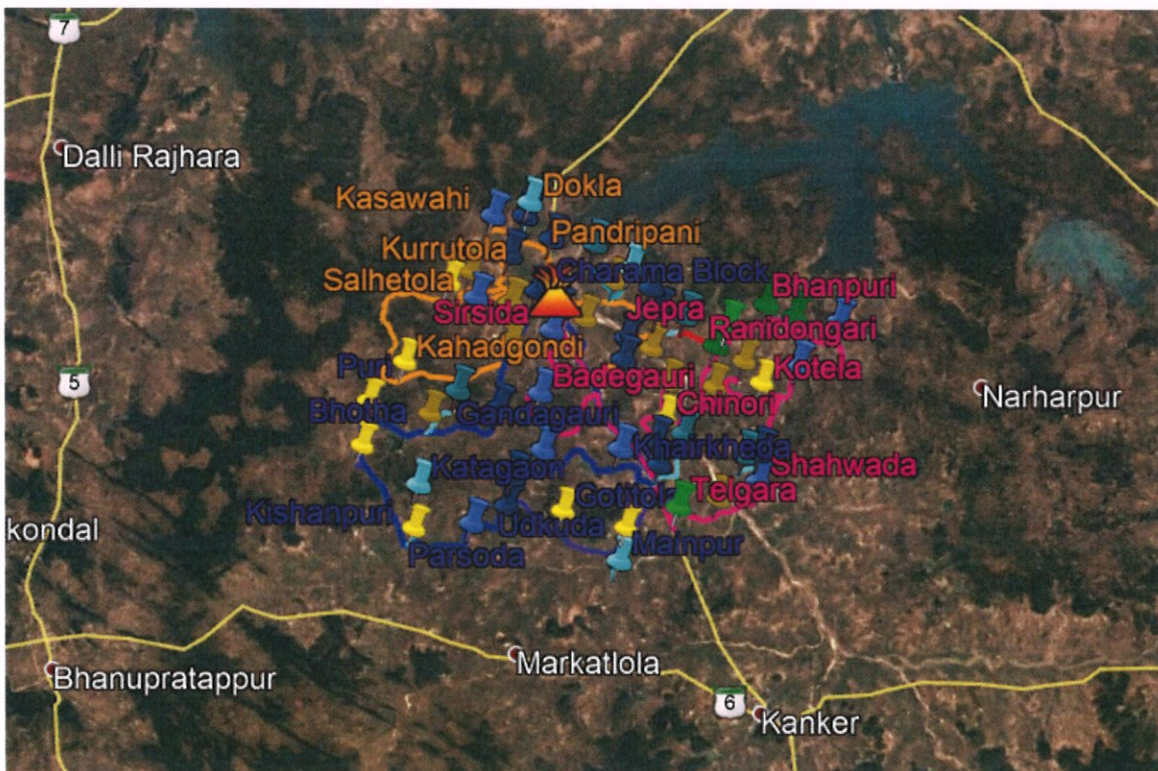
The Government of Chhattisgarh intends to setup an Optical Fibre Cable Network from the Block Head Quarters to Gram Panchayats to provide high speed broadband connectivity by connecting the 85 Blocks, 5987 Gram Panchayats across the State. The proposed network architecture for BharatNet Phase-II project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

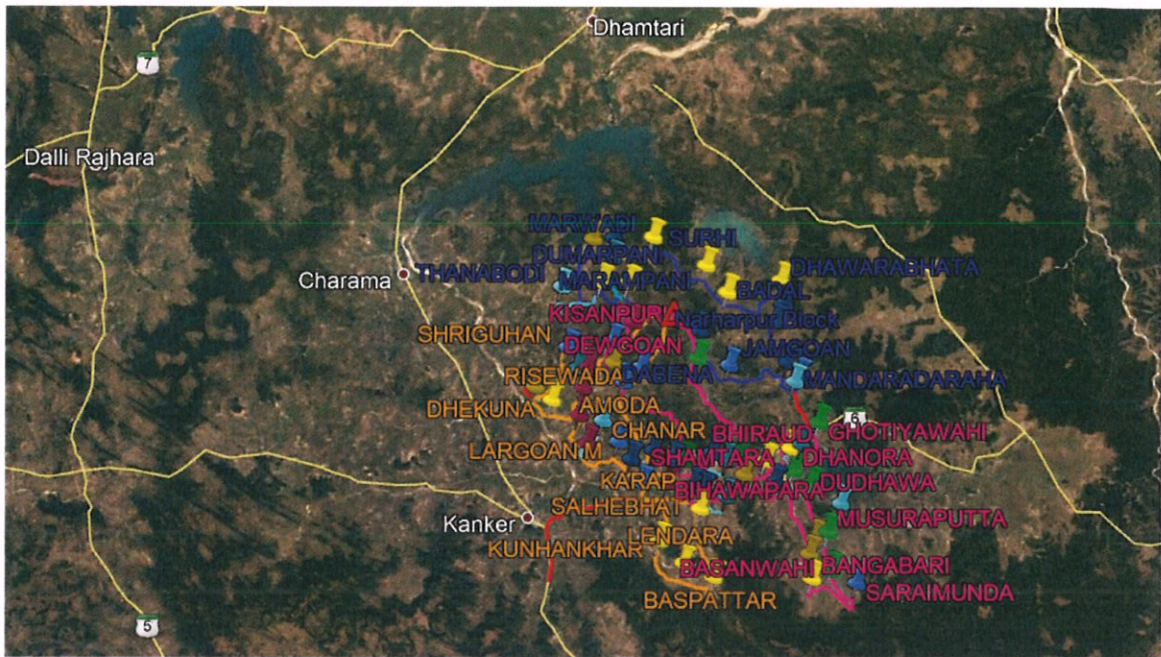
The Chhattisgarh Infotech Promotion Society (CHiPS) has selected an implementation partner “**Tata Project Limited**” for BharatNet Phase-II Project. The project has been conceived with the ambitious vision of providing connectivity to the yet unreached blocks in Chhattisgarh and entails massive investment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



OFC Cable Proposed Routes in Charanma Block in KANKER Forest Division.



OFC Cable Proposed Routes in Narharpur Block in Kanker Forest Division.

1.3. Location

The proposed OFC Cable route in Kanker Forest Division (The OFC route Charama and Narharpur Block; District: Kanker). The Proposed OFC route length is approx. 267.686 in Charama Block and 370.378 km in Narharpur Block. Hence Total route length is 638.064 km. The survey site passes through forest ranges Kanker, Narharpur, Sarona and Charama of Kanker Forest Division. The OFC Cable route is covered under Survey of India Toposheets 64H06, 64H 07, 64H 10, 64H 11, 64H 12, 64H 15, 64H 16, 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 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

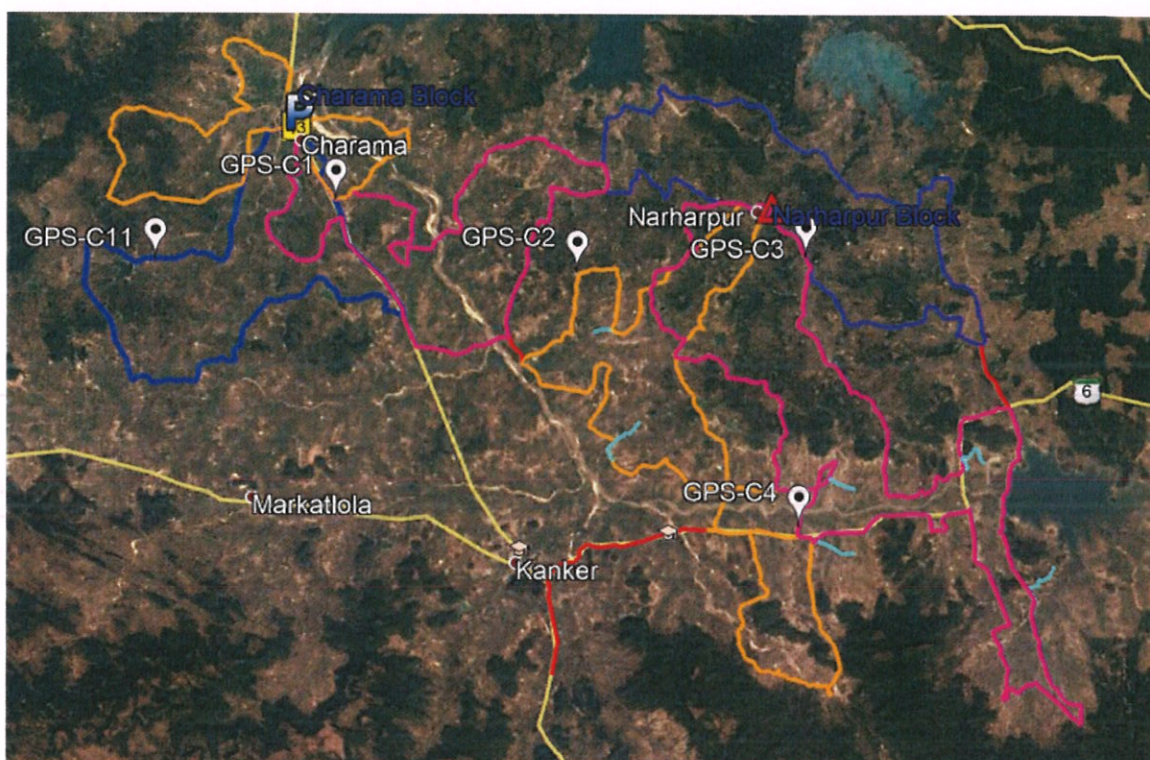
The deliverables envisaged for the assignment are described below -

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.



List of GCP's -

Sr.No	District	GCP No.	Latitude (D:M:S)	Longitude(D:M:S)	Easting	Northing
1	Kanker	GPS-C1	N20°27'15.78698"	E81°23'28.49025"	20.45439	81.39125
2	Kanker	GPS-C11	N20°25'25.26431"	E81°17'36.61357"	20.42369	81.2935
3	Kanker	GPS-C2	N20°25'06.43111"	E81°31'21.89615"	20.41845	81.52275
4	Kanker	GPS-C3	N20°25'34.58553"	E81°38'48.18715"	20.42627	81.64672
5	Kanker	GPS-C4	N20°17'21.51820"	E81°38'35.15207"	20.28931	81.64310

Leica Geosystems AG
 Heineck Wild Strasse
 CH-9415 Heerbrugg
 St. Gallen, Switzerland
 Phone + 41 71 727 4630
 Fax + 41 71 727 4634

- 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 14:21:06	Skype:	-	Projection Type:	UTM
Application Software:	Infinity 2.3	Website:	-	Geoid Model:	EGM_2008
				CSCS Model:	-
Path:	D:\INFINITY PROJECTS\CHIPS\CHIPS.jpj				
Size:	5,396.3 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/R1/L2/R2/L5	
Sampling Rate:	Use All	1 sec	
Satellite System:	GPS/GLONASS/BDS	GPS/GLONASS/BDS	
Ephemeris Type:	Broadcast	Broadcast	
Antenna Calibration Set:	Leica Relative	Leica Relative	
Processing Strategy			
Solution Type:	Phase Fixed	Navigated	
Solution Optimization:	Automatic	None	
Frequency to use in Ionosphere Minimized:	Automatic	Automatic	
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model	
Ionospheric Model:	Automatic	Computed	
Allow Wildcard Fix:	Automatic	No	
General Settings			
Min. Distance for Ionosphere Minimized:	15 km		
Possible Ambiguities Fix up to:	800 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

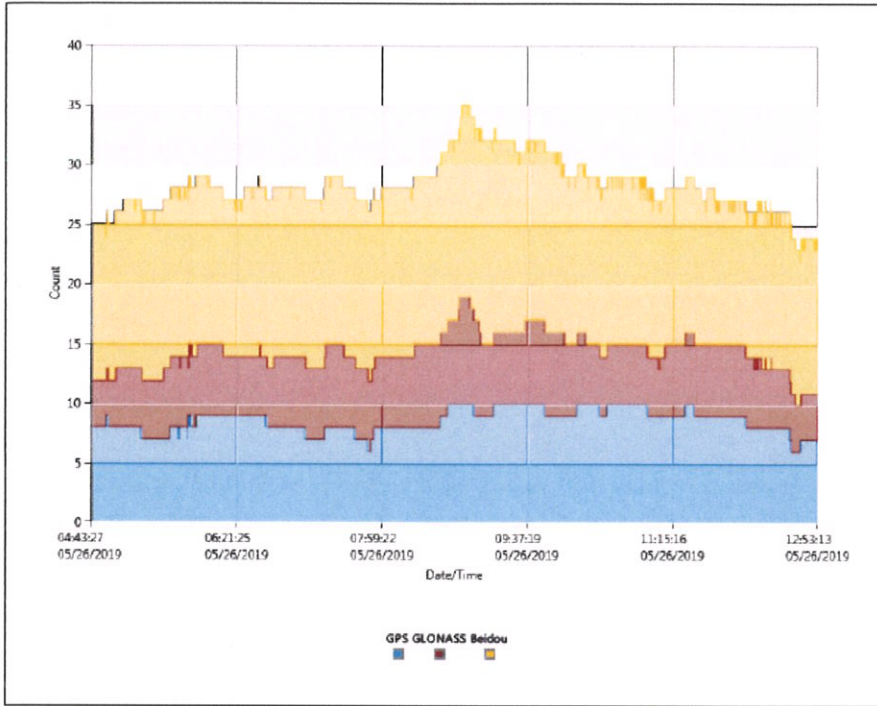
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 Antenna Height: 1.5100 m

Chhattisgarh BharatNet Phase-II Project

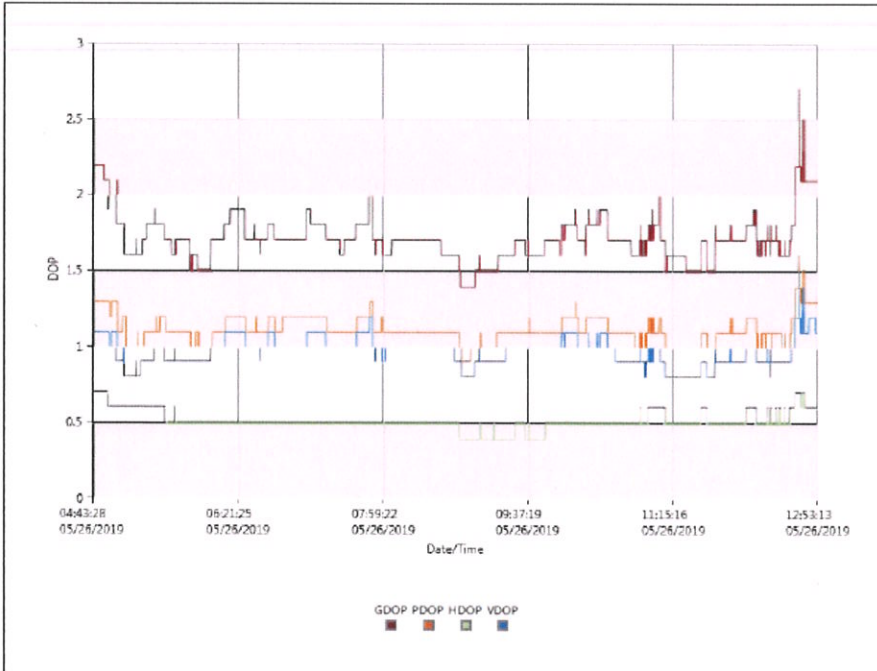
Processing Info (05/26/2019 04:43:28 - 05/26/2019 12:53:14)

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

SVs Tracked



DOP



4.2. Mobile LiDAR (DGPS) data collection:

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



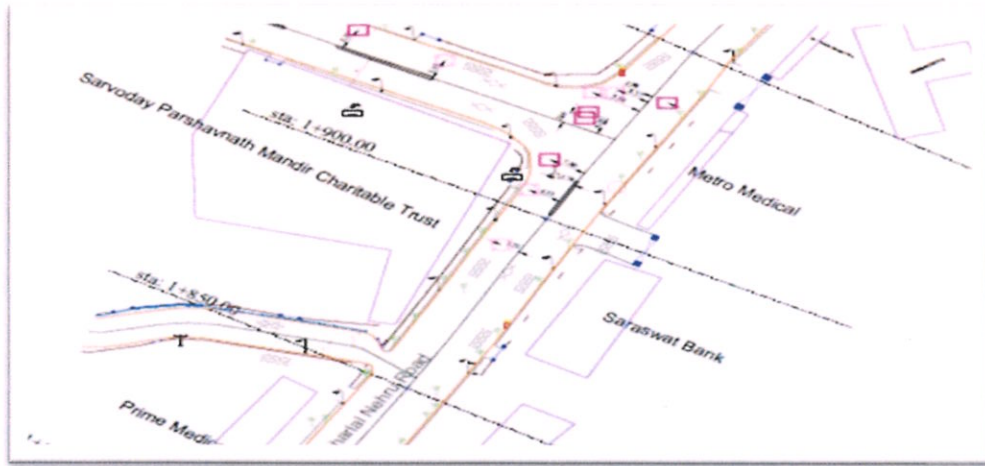
Mobile LiDAR Van

4.3. DRS / GIS Map Creation Using LiDAR data:

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



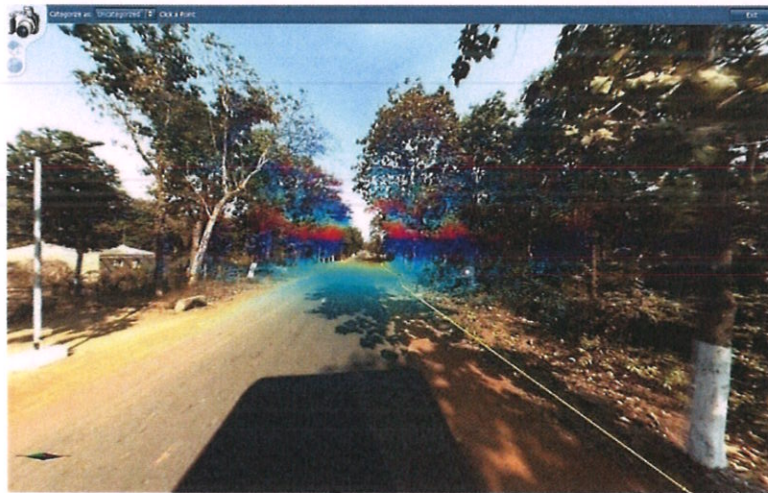
Feature Extraction on LiDAR



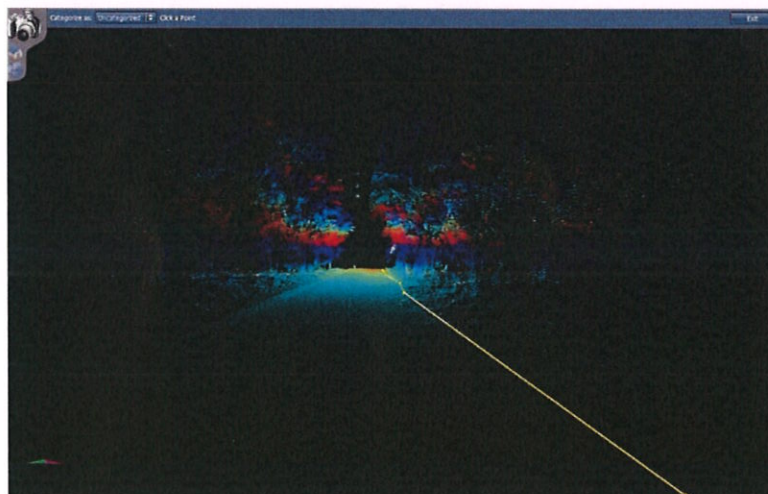
Final DRS / GIS Map

4.4. Demarcation of Proposed OFC on LiDAR data:

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



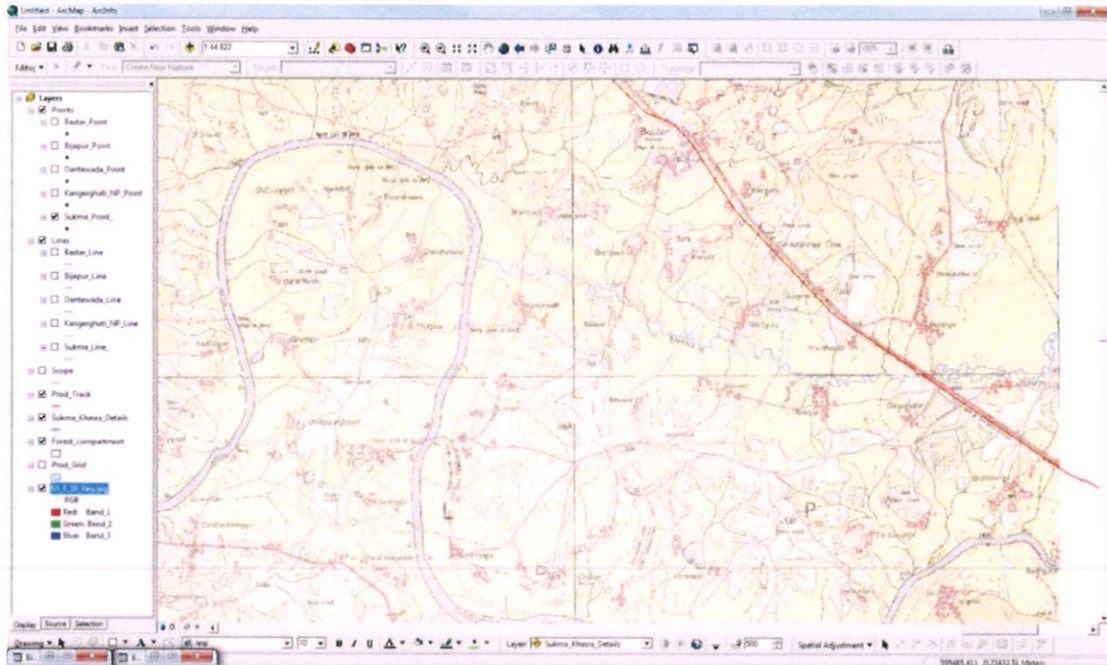
Proposed OFC Line on LiDAR Data (with Panoramic Imagery)



Proposed OFC Line on LiDAR Data only

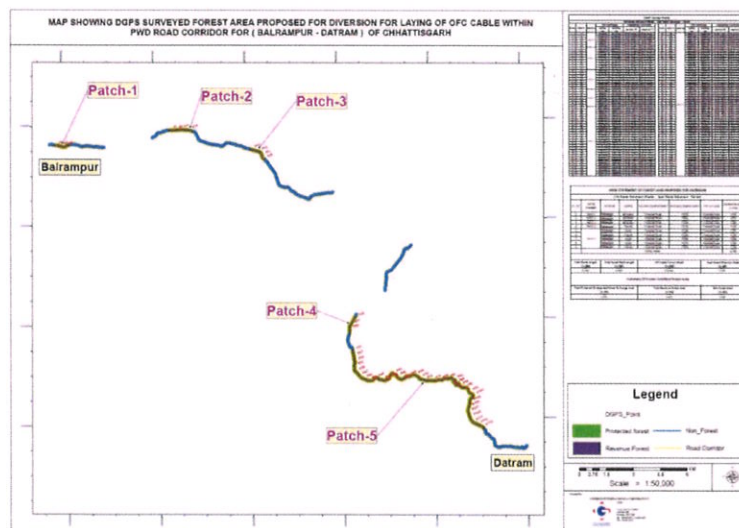
4.5. Geo-referencing of Maps:

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



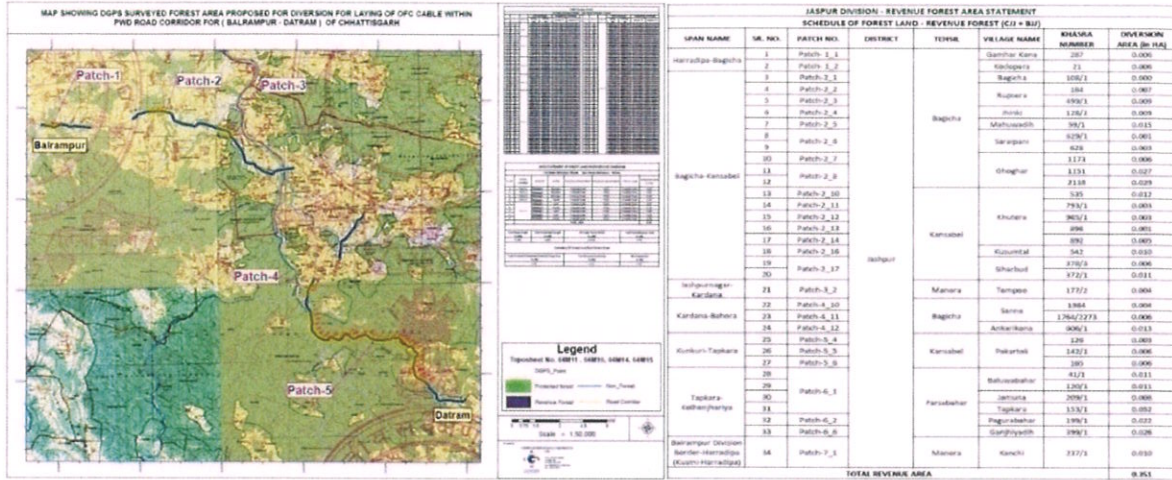
4.6. Creation of Vector Data for Forest Diversion:

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



4.7. Generation of Map and Survey Reports for Forest Diversion

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



Geo-referenced Map

Forest Area Statement

Chhattisgarh BharatNet Phase-II Project

5. DGPS Survey Results

The total OFC route length is approx. **638.064 km** covered Charama and Nagri block of Kanker District. Out of this **90.597 km** OFC route length is passing through Forest Patches hence the proposed forest area for diversion is **4.530 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.

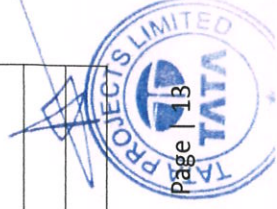
5.1. Forest Area Statement (Annexure-1)

Forest Area Statement – Charama and Narharpur Block with in Kanker Forest Division, District - Kanker						
Total Route Length (in km.)	Length of Non Forest Land (in m.)	Width of Non Forest Land (in m.)	Area of Non-Forest Land (in Ha.)	Length of Forest Land (in m.)	Width of Forest Land (in m.)	Area of Proposed Forest Land (in Ha.)
638064.000	547466.004	0.5	27.373	90597.996	0.5	4.530

Kanker Forest Division – Total Forest Area for Diversion Proposal						
Sl. No.	Forest Division	Forest range	No of Compartment	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
1	Kanker	Charama	25	22224.154	0.5	1.111
2	Kanker	Kanker	4	1875.351	0.5	0.094
3	Kanker	Narharpur	65	47640.788	0.5	2.382
4	Kanker	Sarona	21	11136.495	0.5	0.557
Total of Table A			115	82876.788	0.5	4.144
Sl. No.	District	Block	No of Khasra	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
5	Kanker	Charama	11	1902.652	0.5	0.095
6	Kanker	Narharpur, charama	58	5818.556	0.5	0.290
Total of Table B			69	7721.208	0.5	0.386
Total Diversion Area (Table A+TableB)				90597.996	0.5	4.530

R. K. Netam
Technical Officer
(T) Forest Division
Kanker (G.)

Divisional Forest Officer
Forest Division Kanker



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	Charama	Kanker	Parsoda To Bhotha	Charama	OA	1533	1038.613	0.500	0.052
2	1	Charama	Kanker	Parsoda To Bhotha	Charama	OA	1532	175.202	0.500	0.009
3	2	Charama	Kanker	Parsoda To Bhotha	Charama	OA	1534	262.377	0.500	0.013
4	3	Charama	Kanker	Puri To Mayana	Charama	OA	1494	2342.979	0.500	0.117
5	4	Charama	Kanker	Kahadgond To Puri	Charama	VV	233	44.840	0.500	0.002
6	4	Charama	Kanker	Kahadgond To Puri	Charama	VV	234	1413.459	0.500	0.071
7	4	Charama	Kanker	Kahadgond To Kurrutola	Charama	OA	1490	242.273	0.500	0.012
8	4	Charama	Kanker	Kahadgond To Kurrutola	Charama	VV	233	4133.603	0.500	0.207
9	4	Charama	Kanker	Kahadgond To Puri	Charama	VV	233	811.344	0.500	0.041
10	4	Charama	Kanker	Kahadgond To Kurrutola	Charama	VV	233	811.344	0.500	0.041
11	5	Charama	Kanker	Kahadgond To Kurrutola	Charama	OA	1509	787.771	0.500	0.039
12	6	Charama	Kanker	Kahadgond To Kurrutola	Charama	OA	1489	568.804	0.500	0.028
13	7	Charama	Kanker	Chavadi To Kahadgond	Charama	VV	236	2826.906	0.500	0.141
14	7	Charama	Kanker	Chavadi To Kahadgond	Charama	OA	1521	658.022	0.500	0.033
15	8	Charama	Kanker	Anwari To Kasawahi	Charama	OA	1479	314.625	0.500	0.016
16	9	Charama	Kanker	Jaisakajaisakarra To Lakanpuri	Charama	OA	1474	157.288	0.500	0.008
17	9	Charama	Kanker	Charama To Babu Kohaka	Charama	OA	1474	505.828	0.500	0.025
18	9	Charama	Kanker	Saradhunawagoan To Charama	Charama	OA	1474	505.828	0.500	0.025
19	10	Charama	Kanker	Badegauri To Sirsida	Charama	OA	1473	175.966	0.500	0.009
20	10	Charama	Kanker	Badegauri To Sirsida	Charama	VV	225	684.711	0.500	0.034



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21	11	Charama	Kanker	Baswari To Chinori	Charama	OA	1451	270.574	0.500	0.014
22	12	Charama	Kanker	Khairkheda To Gandagaury	Charama	OA	1468	1689.039	0.500	0.084
23	13	Charama	Kanker	Gottitola To Kottara	Charama	OA	1470	502.796	0.500	0.025
24	14	Charama	Kanker	Kottara To Bogdongri	Charama	OA	1470	554.851	0.500	0.028
25	15	Narharpur	Kanker	Dumarpani To Devinavagaon	Charama	RF	215	745.111	0.500	0.037
Total							25	22224.153	0.500	1.111

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.)
26	16	Narharpur	Kanker	Karap To Kanker	Kanker	RF	84	292.228	0.500	0.015
27	17	Keshkal	Kanker	Khalemurwend To Kanker	Kanker	OA	392	876.825	0.500	0.044
28	17	Keshkal	Kanker	Khalemurwend To Kanker	Kanker	OA	387	247.345	0.500	0.012
29	17	Keshkal	Kanker	Khalemurwend To Kanker	Kanker	RF	78	458.953	0.500	0.023
Total							4	1875.351	0.500	0.094

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.)
30	18	Charama	Kanker	Lakanpuri To Badegaury	Narharpur	OA	562	210.102	0.500	0.011
31	19	Narharpur	Kanker	Shriguhan To Umradah	Narharpur	OA	561	987.623	0.500	0.049
32	20	Narharpur	Kanker	Shriguhan To Umradah	Narharpur	OA	560	360.584	0.500	0.018
33	21	Narharpur	Kanker	Chanar To Junwani	Narharpur	OA	449	708.080	0.500	0.035
34	22	Narharpur	Kanker	Largoanm To Babusalhetola	Narharpur	OA	450	409.064	0.500	0.020
35	23	Narharpur	Kanker	Amoda To Budeli	Narharpur	OA	452	512.701	0.500	0.026




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Table A - Area statement for proposed forest Patches - Protected /Reserve/Orange Area										
Sl. No.	Patch	Block	Forest Division	Route Name	Forest range	Type	Comp. No	Length (in m.)	Width (in m.)	Proposed Area (In Ha.)
36	24	Narharpur	Kanker	Amoda To Budeli	Narharpur	RF	164	689.897	0.500	0.034
37	25	Narharpur	Kanker	Amoda To Budeli	Narharpur	RF	170	514.420	0.500	0.026
38	26	Narharpur	Kanker	Amoda To Dewaribalajee	Narharpur	OA	544	1100.113	0.500	0.055
39	27	Narharpur	Kanker	Amoda To Dewaribalajee	Narharpur	RF	171	510.959	0.500	0.026
40	28	Narharpur	Kanker	Amoda To Dewaribalajee	Narharpur	RF	163	3009.222	0.500	0.150
41	29	Narharpur	Kanker	Abhanpur To Dewgoan	Narharpur	RF	161	1290.886	0.500	0.065
42	30	Narharpur	Kanker	Abhanpur To Dewgoan	Narharpur	OA	505	996.120	0.500	0.050
43	31	Narharpur	Kanker	Abhanpur To Dewgoan	Narharpur	RF	204	371.572	0.500	0.019
44	32	Narharpur	Kanker	Abhanpur To Dewgoan	Narharpur	RF	169	813.083	0.500	0.041
45	33	Narharpur	Kanker	Abhanpur To Dewgoan	Narharpur	OA	507	154.418	0.500	0.008
46	34	Narharpur	Kanker	Abhanpur To Dewgoan	Narharpur	OA	508	734.385	0.500	0.037
47	35	Narharpur	Kanker	Abhanpur To Dewgoan	Narharpur	OA	514	354.954	0.500	0.018
48	36	Narharpur	Kanker	Narharpur To Risewada	Narharpur	OA	528	490.816	0.500	0.025
49	36	Narharpur	Kanker	Narharpur To Risewada	Narharpur	OA	530	600.572	0.500	0.030
50	36	Narharpur	Kanker	Narharpur To Risewada	Narharpur	RF	173	547.234	0.500	0.027
51	37	Narharpur	Kanker	Marampani To Biranpur	Narharpur	OA	577	1575.553	0.500	0.079
52	38	Narharpur	Kanker	Marampani To Dumarpani	Narharpur	OA	574	1275.321	0.500	0.064
53	39	Narharpur	Kanker	Narharpur To Aakheeharra	Narharpur	OA	590	137.486	0.500	0.007
54	39	Narharpur	Kanker	Narharpur To Marampani	Narharpur	OA	590	708.478	0.500	0.035
55	39	Narharpur	Kanker	Narharpur To Aakheeharra	Narharpur	OA	590	351.986	0.500	0.018
56	39	Narharpur	Kanker	Narharpur To Marampani	Narharpur	OA	590	351.986	0.500	0.018
57	40	Narharpur	Kanker	Aakheeharra To Narharpur	Narharpur	OA	590	1266.308	0.500	0.063
58	41	Narharpur	Kanker	Masulpani To Narharpur Tehsil	Narharpur	OA	593	775.854	0.500	0.039
59	41	Narharpur	Kanker	Masulpani To Narharpur	Narharpur	OA	593	775.854	0.500	0.039



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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.)
60	42	Narharpur	Kanker	Masulpani To Narharpur	Narharpur	OA	1405	662.794	0.500	0.033
61	42	Narharpur	Kanker	Masulpani To Narharpur	Narharpur	OA	1405	662.794	0.500	0.033
62	43	Narharpur	Kanker	Dewgoan To Masulpani	Narharpur	OA	517	1202.334	0.500	0.060
63	43	Narharpur	Kanker	Dabena To Masulpani	Narharpur	OA	517	625.013	0.500	0.031
64	43	Narharpur	Kanker	Dewgoan To Masulpani	Narharpur	OA	517	718.188	0.500	0.036
65	43	Narharpur	Kanker	Dabena To Masulpani	Narharpur	OA	517	718.188	0.500	0.036
66	44	Narharpur	Kanker	Dabena To Masulpani	Narharpur	OA	510	1862.984	0.500	0.093
67	45	Narharpur	Kanker	Dompadar To Dabena	Narharpur	RF	201	328.451	0.500	0.016
68	45	Narharpur	Kanker	Dompadar To Dabena	Narharpur	OA	498	649.809	0.500	0.032
69	46	Narharpur	Kanker	Dompadar To Dabena	Narharpur	OA	493	407.254	0.500	0.02
70	46	Narharpur	Kanker	Dompadar To Dabena	Narharpur	RF	199	468.458	0.500	0.023
71	47	Narharpur	Kanker	Dompadar To Dabena	Narharpur	OA	493	1191.375	0.500	0.06
72	48	Narharpur	Kanker	Dompadar To Dabena	Narharpur	OA	484	266.160	0.500	0.013
73	49	Narharpur	Kanker	Shamtara To Bhiraud	Narharpur	RF	157	946.150	0.500	0.047
74	50	Narharpur	Kanker	Jamgaon To Shamtara	Narharpur	OA	479	256.476	0.500	0.013
75	50	Narharpur	Kanker	Jamgaon To Shamtara	Narharpur	RF	207	37.428	0.500	0.002
76	50	Narharpur	Kanker	Jamgaon To Shamtara	Narharpur	RF	158	639.270	0.500	0.032
77	51	Narharpur	Kanker	Ghotiyawahi To Jamgaon	Narharpur	OA	471	624.180	0.500	0.031
78	51	Narharpur	Kanker	Jamgaon To Shamtara	Narharpur	OA	471	628.038	0.500	0.031
79	52	Narharpur	Kanker	Ghotiyawahi To Jamgaon	Narharpur	OA	472	1669.664	0.500	0.083
80	52	Narharpur	Kanker	Ghotiyawahi To Jamgaon	Narharpur	RF	211	312.474	0.500	0.016
81	52	Narharpur	Kanker	Jamgaon To Shamtara	Narharpur	OA	472	1644.156	0.500	0.082
82	52	Narharpur	Kanker	Jamgaon To Shamtara	Narharpur	RF	211	333.959	0.500	0.017
83	53	Narharpur	Kanker	Jamgaon To Mandaradaraha	Narharpur	OA	472	72.085	0.500	0.004



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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.)
84	54	Narharpur	Kanker	Kuralthemali To Jamgaon	Narharpur	OA	483	1317.377	0.500	0.066
85	55	Narharpur	Kanker	Kuralthemali To Jamgaon	Narharpur	OA	482	229.699	0.500	0.011
86	56	Narharpur	Kanker	Kuralthemali To Jamgaon	Narharpur	RF	196	993.247	0.500	0.05
87	57	Narharpur	Kanker	Dhwarabhata To Bhansuli	Narharpur	RF	189	851.790	0.500	0.043
88	58	Narharpur	Kanker	Badal To Dhawarabhata	Narharpur	VV	191	560.665	0.500	0.028
89	59	Narharpur	Kanker	Badal To Dhawarabhata	Narharpur	OA	1426	688.898	0.500	0.034
90	60	Narharpur	Kanker	Badal To Dhawarabhata	Narharpur	RF	187	370.859	0.500	0.019
91	61	Narharpur	Kanker	Surhi To Badal	Narharpur	OA	1411	234.083	0.500	0.012
92	62	Narharpur	Kanker	Marwadi To Surhi	Narharpur	OA	1401	580.058	0.500	0.029
93	63	Nagri	Kanker	Bhothapara To Surhi	Narharpur	VV	182	2051.175	0.500	0.103
94	64	Narharpur	Kanker	Bagdongri To Marwadi	Narharpur	VV	180	249.624	0.500	0.012
Total							65	47640.789	0.500	2.383

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.)
95	65	Narharpur	Kanker	Dawarkhar To Karap	Sarona	RF	148	161.645	0.500	0.008
96	66	Narharpur	Kanker	Kunhankhar To Dawarkhar	Sarona	RF	148	465.440	0.500	0.023
97	67	Narharpur	Kanker	Kunhankhar To Dawarkhar	Sarona	OA	408	113.988	0.500	0.006
98	67	Narharpur	Kanker	Kunhankhar To Dawarkhar	Sarona	RF	147	291.377	0.500	0.015
99	68	Narharpur	Kanker	Kunhankhar To Dawarkhar	Sarona	RF	146	207.414	0.500	0.010
100	69	Narharpur	Kanker	Lendara To Kunhankhar	Sarona	RF	143	214.192	0.500	0.011
101	70	Narharpur	Kanker	Lendara To Kunhankhar	Sarona	OA	406	32.165	0.500	0.002
102	71	Narharpur	Kanker	Baspattar To Lendara	Sarona	OA	412	152.716	0.500	0.008
103	71	Narharpur	Kanker	Baspattar To Lendara	Sarona	RF	142	859.705	0.500	0.043



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104	72	Narharpur	Kanker	Salhehat To Baspattar	Sarona	RF	144	903.864	0.500	0.045
105	72	Narharpur	Kanker	Salhehat To Baspattar	Sarona	RF	111	1278.691	0.500	0.064
106	73	Narharpur	Kanker	Salhehat To Baspattar	Sarona	RF	117	776.338	0.500	0.039
107	74	Narharpur	Kanker	Sarona To Maigaon	Sarona	VV	123	723.704	0.500	0.036
108	74	Narharpur	Kanker	Maigaon To Sarwandi	Sarona	VV	123	620.783	0.500	0.031
109	75	Narharpur	Kanker	Maigaon To Sarwandi	Sarona	RF	121	301.296	0.500	0.015
110	76	Narharpur	Kanker	Dhanora To Mawalipara	Sarona	OA	427	375.412	0.500	0.019
111	77	Narharpur	Kanker	Bihawapara To Dudhawa	Sarona	RF	152	1051.872	0.500	0.053
112	78	Narharpur	Kanker	Dhanora To Mawalipara	Sarona	OA	429	316.937	0.500	0.016
113	78	Narharpur	Kanker	Dhanora To Mawalipara	Sarona	OA	428	569.334	0.500	0.028
114	79	Narharpur	Kanker	Dhanora To Mawalipara	Sarona	RF	153	856.258	0.500	0.043
115	80	Narharpur	Kanker	Bihawapara To Dudhawa	Sarona	RF	153	863.364	0.500	0.043
Total							21	11136.494	0.500	0.558

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	81	Kanker	Charama	Gottitola To Kottara	Kottara	BJJ	1343	42.187	0.500	0.002
2	82	Kanker	Charama	Badegaori To Sirsida	Badegaori	CJJ	322	98.663	0.500	0.005
3	83	Kanker	Charama	Badegaori To Sirsida	Badegaori	CJJ	249	249.533	0.500	0.012
4	84	Kanker	Charama	Badegaori To Golkunda	Badegaori	CJJ	543	305.903	0.500	0.015
5	85	Kanker	Charama	Bharitola To Dokla	Dokala	CJJ	251	19.362	0.500	0.001
6	86	Kanker	Charama	Chavadi To Kahadgond	Chapeli	BJJ	634	205.969	0.500	0.010
7	87	Kanker	Charama	Kahadgond To Puri	Puri	CJJ	559	104.373	0.500	0.005
8	88	Kanker	Charama	Kahadgond To Kurrutola	Gidhali	CJJ	374	143.150	0.500	0.007



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9	89	Kanker	Charama	Kahadgond To Kurrutola	Gidhali	CJJ	379	158.514	0.500	0.008
10	90	Kanker	Charama	Kahadgond To Kurrutola	Gidhali	CJJ	182	399.058	0.500	0.020
11	91	Kanker	Charama	Kahadgond To Kurrutola	Gidhali	CJJ	177	175.940	0.500	0.009
Total							11	1902.652	0.500	0.095

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.)
12	92	Kanker	Narharpur	Amoda To Dewaribalajee	Amoda	BJJ	1271/1	132.215	0.500	0.007
13	93	Kanker	Narharpur	Amoda To Dewaribalajee	Deoribalaji	BJJ	403	459.922	0.500	0.023
14	94	Kanker	Narharpur	Amoda To Dewaribalajee	Deoribalaji	BJJ	402	40.281	0.500	0.002
15	95	Kanker	Narharpur	Aakheeharra To Kisanpuri	Kishanpuri	CJJ	632	251.548	0.500	0.013
16	96	Kanker	Narharpur	Bhiraud To Abhanpur	Bhiraud	BJJ	481	142.943	0.500	0.007
17	97	Kanker	Narharpur	Ghotiyawahi To Jangaon	Jangaon	BJJ	385	366.437	0.500	0.018
18	98	Kanker	Narharpur	Devinavagaon To Bagdongri	Devinavagaon	CJJ	620	96.067	0.500	0.005
19	99	Kanker	Narharpur	Surhi To Badal	Badal	CJJ	84	216.036	0.500	0.011
20	100	Kanker	Narharpur	Badal To Dhawarabhata	Badal	CJJ	767/1	277.936	0.500	0.014
21	101	Kanker	Narharpur	Badal To Dhawarabhata	Badal	CJJ	785	67.716	0.500	0.003
22	102	Kanker	Narharpur	Badal To Dhawarabhata	Badal	CJJ	787	22.254	0.500	0.001
23	103	Kanker	Narharpur	Badal To Dhawarabhata	Badal	CJJ	786	24.553	0.500	0.001
24	104	Kanker	Narharpur	Badal To Dhawarabhata	Badal	CJJ	780	169.814	0.500	0.008
25	105	Kanker	Narharpur	Badal To Dhawarabhata	Badal	CJJ	793	65.540	0.500	0.003
26	106	Kanker	Narharpur	Badal To Dhawarabhata	Dhourabhat	CJJ	165	16.702	0.500	0.001
27	107	Kanker	Narharpur	Dhawarabhata To Bhansuli	Bhansuli	BJJ	336/1	73.082	0.500	0.004
28	108	Kanker	Narharpur	Narharpur To Risewada	Narharpur	BJJ	1375	69.849	0.500	0.003
29	109	Kanker	Narharpur	Baspattar To Lendara	Baspattar	CJJ	89	108.641	0.500	0.005



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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.)
30	110	Kanker	Narharpur	Amoda To Budeli	Sonpur	BJJ	37	44.442	0.500	0.002
31	111	Kanker	Narharpur	Amoda To Budeli	Sonpur	CJJ	57	57.539	0.500	0.003
32	112	Kanker	Narharpur	Amoda To Budeli	Sonpur	CJJ	76	54.634	0.500	0.003
33	113	Kanker	Narharpur	Amoda To Budeli	Sonpur	CJJ	250	16.212	0.500	0.001
34	114	Kanker	Narharpur	Amoda To Budeli	Sonpur	CJJ	252	34.702	0.500	0.002
35	115	Kanker	Narharpur	Amoda To Budeli	Sonpur	CJJ	293	9.818	0.500	0.001
36	116	Kanker	Narharpur	Salhehat To Baspattar	Baspattar	CJJ	89	191.679	0.500	0.010
37	117	Kanker	Narharpur	Lendara To Kunhankhar	Kumhankhar	CJJ	519	62.093	0.500	0.003
38	118	Kanker	Narharpur	Lendara To Kunhankhar	Kumhankhar	CJJ	517	18.202	0.500	0.001
39	119	Kanker	Narharpur	Lendara To Kunhankhar	Kumhankhar	CJJ	520	36.456	0.500	0.002
40	120	Kanker	Narharpur	Lendara To Kunhankhar	Kumhankhar	CJJ	521	42.787	0.500	0.002
41	121	Kanker	Narharpur	Lendara To Kunhankhar	Kumhankhar	CJJ	590	45.974	0.500	0.002
42	122	Kanker	Narharpur	Lendara To Kunhankhar	Lendara	BJJ	155	192.877	0.500	0.010
43	123	Kanker	Narharpur	Lendara To Kunhankhar	Lendara	BJJ	763	153.747	0.500	0.008
44	124	Kanker	Narharpur	Chanar To Junwani	Chanar	CJJ	976	75.853	0.500	0.004
45	125	Kanker	Narharpur	Chanar To Junwani	Chanar	CJJ	973	108.348	0.500	0.005
46	126	Kanker	Narharpur	Chanar To Junwani	Chanar	CJJ	901	159.066	0.500	0.008
47	127	Kanker	Narharpur	Umradah To Kisanपुरी	Umaradah	BJJ	159	30.445	0.500	0.002
48	128	Kanker	Narharpur	Umradah To Kisanपुरी	Umaradah	BJJ	1063/1	524.863	0.500	0.026
49	129	Kanker	Narharpur	Kisanपुरी To Aakheeharra	Kishanपुरी(Pando)	CJJ	632	112.448	0.500	0.006
50	130	Kanker	Narharpur	Kisanपुरी To Aakheeharra	Kishanपुरी(Pando)	CJJ	611	55.632	0.500	0.003
51	131	Kanker	Narharpur	Kisanपुरी To Aakheeharra	Kishanपुरी(Pando)	CJJ	610	162.581	0.500	0.008
52	132	Kanker	Narharpur	Junwani To Chawad	Junwani	CJJ	232	111.956	0.500	0.006
53	133	Kanker	Charama	Bhotha To Puri	Puri	CJJ	500	40.380	0.500	0.002



K. K. Netam
 Divisional Forest Officer
 Forest Division Kanker

R. K. Netam
 Technical Officer
 (T) Forest Division
 Kanker (C.G.)

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.)
54	134	Kanker	Charama	Girhola To Charama Block	Charama	CJ	1009	54.313	0.500	0.003
55	135	Kanker	Charama	Girhola To Charama Block	Charama	CJ	1011	24.036	0.500	0.001
56	136	Kanker	Charama	Girhola To Charama Block	Charama	CJ	1015	36.061	0.500	0.002
57	137	Kanker	Charama	Dargahan To Charama	Charama (NP)	CJ	1018	20.162	0.500	0.001
58	138	Kanker	Charama	Girhola To Charama Block	Charama (NP)	CJ	1019/1	20.205	0.500	0.001
59	139	Kanker	Charama	Girhola To Charama Block	Charama (NP)	CJ	1019/2	41.846	0.500	0.002
60	140	Kanker	Charama	Charama To Babu Kohaka	Charama (NP)	CJ	1020	43.144	0.500	0.002
61	141	Kanker	Narharpur	Masulpani To Narharpur Tehsil	Masulpani	BJJ	66	161.526	0.500	0.008
62	142	Kanker	Narharpur	Masulpani To Narharpur Tehsil	Masulpani	BJJ	111	14.578	0.500	0.001
63	143	Kanker	Narharpur	Masulpani To Narharpur Tehsil	Narharpur (NP)	BJJ	1421	146.279	0.500	0.007
64	144	Kanker	Narharpur	Aakheeharra To Kisanpuri	Kishanpuri(Pando)	CJJ	632	53.341	0.500	0.003
65	145	Kanker	Narharpur	Dewgoan To Masulpani	Masulpani	BJJ	314/1	33.11	0.500	0.002
66	146	Kanker	Narharpur	Babusalhetola To Junwani	Junwani	CJJ	700	22.504	0.500	0.001
67	147	Kanker	Narharpur	Babusalhetola To Junwani	Junwani	BJJ	1309	48.491	0.500	0.002
68	148	Kanker	Charama	Charama To Jaisakajaisakarra	Charama (NP)	CJJ	1020	73.63	0.500	0.004
69	149	Kanker	Charama	Girhola To Charama Block	Charama (NP)	CJJ	1020	71.06	0.500	0.002
Total								5818.556	0.500	0.291

[Signature]
R. K. Netam
 Technical Officer
 (T) Forest Division
 Kanker (F.G.)

[Signature]
 Divisional Forest Officer
 Forest Division Kanker



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

Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-1	1	81° 16' 50.868"	20° 21' 50.946"	P-2	1	81° 16' 48.036"	20° 21' 56.851"
P-3	1	81° 16' 46.551"	20° 22' 3.195"	P-4	1	81° 16' 45.225"	20° 22' 9.578"
P-5	1	81° 16' 44.077"	20° 22' 15.988"	P-6	1	81° 16' 41.954"	20° 22' 22.072"
P-7	1	81° 16' 41.226"	20° 22' 23.123"	P-8	1	81° 16' 41.226"	20° 22' 23.123"
P-9	1	81° 16' 37.130"	20° 22' 27.298"	P-10	2	81° 15' 58.201"	20° 23' 49.727"
P-11	2	81° 15' 53.123"	20° 23' 54.122"	P-12	2	81° 15' 51.638"	20° 23' 55.590"
P-13	3	81° 15' 39.949"	20° 25' 49.784"	P-14	3	81° 15' 46.753"	20° 25' 50.866"
P-15	3	81° 15' 53.566"	20° 25' 51.870"	P-16	3	81° 16' 0.058"	20° 25' 49.779"
P-17	3	81° 16' 6.066"	20° 25' 46.698"	P-18	3	81° 16' 11.901"	20° 25' 43.338"
P-19	3	81° 16' 18.260"	20° 25' 40.816"	P-20	3	81° 16' 25.050"	20° 25' 39.693"
P-21	3	81° 16' 30.630"	20° 25' 35.991"	P-22	3	81° 16' 35.882"	20° 25' 31.772"
P-23	3	81° 16' 41.330"	20° 25' 27.806"	P-24	3	81° 16' 47.494"	20° 25' 24.883"
P-25	3	81° 16' 51.902"	20° 25' 22.793"	P-26	4	81° 16' 3.780"	20° 27' 16.399"
P-27	4	81° 16' 4.937"	20° 27' 17.048"	P-28	4	81° 15' 41.509"	20° 26' 37.247"
P-29	4	81° 15' 43.659"	20° 26' 43.424"	P-30	4	81° 15' 45.860"	20° 26' 49.591"
P-31	4	81° 15' 48.209"	20° 26' 55.707"	P-32	4	81° 15' 51.161"	20° 27' 1.585"
P-33	4	81° 15' 54.302"	20° 27' 7.377"	P-34	4	81° 15' 57.442"	20° 27' 13.168"
P-35	4	81° 16' 3.342"	20° 27' 16.254"	P-36	4	81° 16' 3.780"	20° 27' 16.399"
P-37	4	81° 16' 10.980"	20° 29' 22.911"	P-38	4	81° 16' 8.058"	20° 29' 17.020"
P-39	4	81° 16' 7.764"	20° 29' 15.677"	P-40	4	81° 16' 7.749"	20° 29' 14.254"
P-41	4	81° 16' 9.381"	20° 29' 7.958"	P-42	4	81° 16' 13.484"	20° 29' 2.832"
P-43	4	81° 16' 19.221"	20° 28' 59.224"	P-44	4	81° 16' 22.791"	20° 28' 54.117"
P-45	4	81° 16' 23.685"	20° 28' 47.683"	P-46	4	81° 16' 26.982"	20° 28' 42.027"
P-47	4	81° 16' 30.766"	20° 28' 36.588"	P-48	4	81° 16' 33.664"	20° 28' 30.722"
P-49	4	81° 16' 35.726"	20° 28' 24.551"	P-50	4	81° 16' 36.262"	20° 28' 18.669"
P-51	4	81° 16' 31.618"	20° 28' 13.917"	P-52	4	81° 16' 27.352"	20° 28' 9.154"
P-53	4	81° 16' 25.179"	20° 28' 2.980"	P-54	4	81° 16' 22.912"	20° 27' 56.836"
P-55	4	81° 16' 20.448"	20° 27' 50.763"	P-56	4	81° 16' 17.681"	20° 27' 44.803"
P-57	4	81° 16' 14.920"	20° 27' 38.841"	P-58	4	81° 16' 12.044"	20° 27' 32.928"
P-59	4	81° 16' 9.251"	20° 27' 26.978"	P-60	4	81° 16' 6.571"	20° 27' 20.983"
P-61	4	81° 16' 4.937"	20° 27' 17.048"	P-62	4	81° 16' 4.937"	20° 27' 17.048"
P-63	4	81° 16' 11.328"	20° 27' 15.008"	P-64	4	81° 16' 17.381"	20° 27' 11.888"
P-65	4	81° 16' 23.439"	20° 27' 8.771"	P-66	4	81° 16' 29.497"	20° 27' 5.653"
P-67	4	81° 16' 29.851"	20° 27' 5.494"	P-68	4	81° 16' 4.937"	20° 27' 17.048"
P-69	4	81° 16' 11.328"	20° 27' 15.008"	P-70	4	81° 16' 17.381"	20° 27' 11.888"
P-71	4	81° 16' 23.439"	20° 27' 8.771"	P-72	4	81° 16' 29.497"	20° 27' 5.653"
P-73	4	81° 16' 29.851"	20° 27' 5.494"	P-74	5	81° 17' 16.923"	20° 30' 0.652"
P-75	5	81° 17' 10.395"	20° 30' 2.610"	P-76	5	81° 17' 3.761"	20° 30' 1.094"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-77	5	81° 16' 57.198"	20° 29' 59.079"	P-78	5	81° 16' 50.975"	20° 29' 58.202"
P-79	6	81° 17' 48.924"	20° 29' 49.621"	P-80	6	81° 17' 42.830"	20° 29' 52.369"
P-81	6	81° 17' 35.958"	20° 29' 52.973"	P-82	6	81° 17' 30.196"	20° 29' 53.751"
P-83	7	81° 17' 38.581"	20° 27' 20.604"	P-84	7	81° 17' 44.481"	20° 27' 17.688"
P-85	7	81° 17' 51.259"	20° 27' 16.464"	P-86	7	81° 17' 58.144"	20° 27' 16.135"
P-87	7	81° 18' 5.011"	20° 27' 15.471"	P-88	7	81° 18' 11.882"	20° 27' 14.857"
P-89	7	81° 18' 18.758"	20° 27' 14.278"	P-90	7	81° 18' 25.639"	20° 27' 13.773"
P-91	7	81° 18' 32.495"	20° 27' 13.094"	P-92	7	81° 18' 39.294"	20° 27' 11.972"
P-93	7	81° 18' 46.109"	20° 27' 10.940"	P-94	7	81° 18' 52.937"	20° 27' 9.984"
P-95	7	81° 18' 59.782"	20° 27' 9.156"	P-96	7	81° 19' 6.657"	20° 27' 9.357"
P-97	7	81° 19' 12.461"	20° 27' 12.714"	P-98	7	81° 19' 13.196"	20° 27' 13.249"
P-99	7	81° 17' 31.847"	20° 27' 24.025"	P-100	7	81° 17' 19.474"	20° 27' 21.205"
P-101	7	81° 17' 26.169"	20° 27' 22.788"	P-102	7	81° 17' 37.288"	20° 27' 22.046"
P-103	7	81° 17' 38.581"	20° 27' 20.604"	P-104	8	81° 20' 13.058"	20° 31' 12.732"
P-105	8	81° 20' 18.367"	20° 31' 7.815"	P-106	8	81° 20' 19.008"	20° 31' 4.137"
P-107	9	81° 22' 56.093"	20° 27' 57.583"	P-108	9	81° 22' 58.756"	20° 27' 53.411"
P-109	9	81° 22' 58.351"	20° 27' 53.152"	P-110	9	81° 22' 54.380"	20° 27' 58.470"
P-111	9	81° 22' 50.609"	20° 28' 3.919"	P-112	9	81° 22' 48.572"	20° 28' 6.777"
P-113	9	81° 22' 58.351"	20° 27' 53.152"	P-114	9	81° 22' 54.380"	20° 27' 58.470"
P-115	9	81° 22' 50.609"	20° 28' 3.919"	P-116	9	81° 22' 48.572"	20° 28' 6.777"
P-117	10	81° 21' 54.163"	20° 27' 4.703"	P-118	10	81° 21' 53.359"	20° 26' 59.095"
P-119	10	81° 21' 49.129"	20° 26' 54.413"	P-120	10	81° 21' 42.582"	20° 26' 53.275"
P-121	10	81° 21' 36.888"	20° 26' 50.101"	P-122	10	81° 21' 30.059"	20° 26' 49.746"
P-123	10	81° 21' 27.228"	20° 26' 49.087"	P-124	11	81° 25' 18.913"	20° 25' 41.826"
P-125	11	81° 25' 14.705"	20° 25' 46.934"	P-126	11	81° 25' 13.608"	20° 25' 48.961"
P-127	12	81° 22' 41.114"	20° 24' 40.700"	P-128	12	81° 22' 37.518"	20° 24' 35.248"
P-129	12	81° 22' 34.254"	20° 24' 29.564"	P-130	12	81° 22' 29.299"	20° 24' 25.036"
P-131	12	81° 22' 24.420"	20° 24' 20.436"	P-132	12	81° 22' 14.501"	20° 24' 16.678"
P-133	12	81° 22' 7.649"	20° 24' 16.140"	P-134	12	81° 22' 0.869"	20° 24' 16.815"
P-135	12	81° 21' 54.347"	20° 24' 14.981"	P-136	12	81° 21' 52.041"	20° 24' 13.144"
P-137	13	81° 21' 26.667"	20° 22' 43.221"	P-138	13	81° 21' 21.598"	20° 22' 47.619"
P-139	13	81° 21' 15.672"	20° 22' 50.932"	P-140	13	81° 21' 13.457"	20° 22' 53.503"
P-141	14	81° 20' 26.747"	20° 23' 1.980"	P-142	14	81° 20' 25.786"	20° 22' 55.537"
P-143	14	81° 20' 24.350"	20° 22' 49.189"	P-144	14	81° 20' 23.073"	20° 22' 44.311"
P-145	15	81° 32' 12.172"	20° 28' 50.818"	P-146	15	81° 32' 13.201"	20° 28' 57.085"
P-147	15	81° 32' 13.459"	20° 29' 3.562"	P-148	15	81° 32' 12.873"	20° 29' 9.802"
P-149	15	81° 32' 13.325"	20° 29' 14.478"	P-150	16	81° 31' 52.898"	20° 16' 43.253"
P-151	16	81° 31' 46.515"	20° 16' 45.713"	P-152	16	81° 31' 43.483"	20° 16' 46.529"
P-153	17	81° 30' 49.647"	20° 10' 29.270"	P-154	17	81° 30' 51.524"	20° 10' 23.009"
P-155	17	81° 30' 53.234"	20° 10' 16.710"	P-156	17	81° 30' 55.787"	20° 10' 10.667"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-157	17	81° 30' 58.835"	20° 10' 4.837"	P-158	17	81° 31' 0.048"	20° 10' 2.616"
P-159	17	81° 30' 31.344"	20° 10' 43.347"	P-160	17	81° 30' 36.316"	20° 10' 38.870"
P-161	17	81° 30' 37.840"	20° 10' 38.322"	P-162	17	81° 30' 37.840"	20° 10' 38.322"
P-163	17	81° 30' 44.150"	20° 10' 35.723"	P-164	17	81° 30' 48.650"	20° 10' 30.940"
P-165	17	81° 30' 49.647"	20° 10' 29.270"	P-166	18	81° 29' 53.716"	20° 26' 39.953"
P-167	18	81° 30' 0.582"	20° 26' 39.849"	P-168	18	81° 30' 0.928"	20° 26' 39.811"
P-169	19	81° 32' 6.662"	20° 25' 8.954"	P-170	19	81° 31' 59.906"	20° 25' 10.134"
P-171	19	81° 31' 53.023"	20° 25' 10.272"	P-172	19	81° 31' 37.909"	20° 25' 5.013"
P-173	19	81° 31' 24.715"	20° 24' 59.022"	P-174	19	81° 31' 24.125"	20° 24' 52.945"
P-175	20	81° 32' 38.943"	20° 23' 54.491"	P-176	20	81° 32' 39.672"	20° 24' 0.930"
P-177	20	81° 32' 41.001"	20° 24' 5.999"	P-178	21	81° 32' 44.465"	20° 20' 1.608"
P-179	21	81° 32' 50.251"	20° 20' 5.100"	P-180	21	81° 32' 55.854"	20° 20' 8.892"
P-181	21	81° 33' 1.592"	20° 20' 9.730"	P-182	21	81° 33' 5.255"	20° 20' 9.943"
P-183	22	81° 33' 49.012"	20° 19' 9.051"	P-184	22	81° 33' 42.236"	20° 19' 10.047"
P-185	22	81° 33' 35.706"	20° 19' 12.105"	P-186	22	81° 33' 35.395"	20° 19' 12.134"
P-187	23	81° 35' 49.815"	20° 20' 6.747"	P-188	23	81° 35' 43.802"	20° 20' 9.825"
P-189	23	81° 35' 37.895"	20° 20' 12.989"	P-190	23	81° 35' 35.489"	20° 20' 15.866"
P-191	24	81° 35' 33.734"	20° 20' 25.818"	P-192	24	81° 35' 32.080"	20° 20' 32.127"
P-193	24	81° 35' 29.543"	20° 20' 38.154"	P-194	24	81° 35' 28.019"	20° 20' 44.481"
P-195	24	81° 35' 26.255"	20° 20' 46.880"	P-196	25	81° 35' 24.629"	20° 20' 48.909"
P-197	25	81° 35' 20.287"	20° 20' 53.962"	P-198	25	81° 35' 15.832"	20° 20' 58.928"
P-199	25	81° 35' 13.232"	20° 21' 1.728"	P-200	26	81° 35' 40.593"	20° 22' 32.865"
P-201	26	81° 35' 47.005"	20° 22' 30.616"	P-202	26	81° 35' 52.977"	20° 22' 27.725"
P-203	26	81° 35' 3.256"	20° 22' 27.417"	P-204	26	81° 35' 8.867"	20° 22' 24.176"
P-205	26	81° 35' 15.560"	20° 22' 23.494"	P-206	26	81° 36' 2.182"	20° 22' 22.118"
P-207	27	81° 37' 39.304"	20° 21' 21.735"	P-208	27	81° 37' 45.873"	20° 21' 20.030"
P-209	27	81° 37' 52.736"	20° 21' 19.705"	P-210	27	81° 37' 55.457"	20° 21' 17.884"
P-211	28	81° 38' 1.087"	20° 20' 58.216"	P-212	28	81° 37' 58.553"	20° 20' 52.195"
P-213	28	81° 37' 58.270"	20° 20' 45.766"	P-214	28	81° 38' 1.450"	20° 20' 40.276"
P-215	28	81° 38' 5.812"	20° 20' 28.834"	P-216	28	81° 38' 8.116"	20° 20' 22.812"
P-217	28	81° 38' 9.713"	20° 20' 16.643"	P-218	28	81° 38' 11.668"	20° 20' 10.483"
P-219	28	81° 38' 6.674"	20° 20' 6.742"	P-220	28	81° 38' 1.697"	20° 20' 2.391"
P-221	28	81° 37' 59.424"	20° 19' 56.251"	P-222	28	81° 37' 57.560"	20° 19' 50.072"
P-223	28	81° 37' 58.982"	20° 19' 43.736"	P-224	28	81° 37' 58.077"	20° 19' 38.083"
P-225	28	81° 37' 51.253"	20° 19' 38.805"	P-226	28	81° 37' 47.572"	20° 19' 33.973"
P-227	28	81° 37' 47.404"	20° 19' 33.718"	P-228	29	81° 41' 24.906"	20° 19' 24.390"
P-229	29	81° 41' 24.956"	20° 19' 30.671"	P-230	29	81° 41' 24.516"	20° 19' 37.072"
P-231	29	81° 41' 26.199"	20° 19' 43.268"	P-232	29	81° 41' 29.593"	20° 19' 48.358"
P-233	29	81° 41' 28.365"	20° 19' 54.551"	P-234	29	81° 41' 28.026"	20° 20' 1.005"
P-235	29	81° 41' 28.522"	20° 20' 3.913"	P-236	30	81° 41' 28.522"	20° 20' 3.913"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-237	30	81° 41' 27.816"	20° 20' 10.268"	P-238	30	81° 41' 27.894"	20° 20' 16.662"
P-239	30	81° 41' 24.348"	20° 20' 22.107"	P-240	30	81° 41' 22.171"	20° 20' 28.202"
P-241	30	81° 41' 19.159"	20° 20' 33.857"	P-242	31	81° 40' 36.614"	20° 21' 19.230"
P-243	31	81° 40' 32.117"	20° 21' 24.151"	P-244	31	81° 40' 27.269"	20° 21' 27.216"
P-245	32	81° 40' 27.269"	20° 21' 27.216"	P-246	32	81° 40' 20.960"	20° 21' 26.654"
P-247	32	81° 40' 17.415"	20° 21' 24.310"	P-248	32	81° 40' 15.083"	20° 21' 29.362"
P-249	32	81° 40' 13.464"	20° 21' 35.671"	P-250	32	81° 40' 13.360"	20° 21' 36.085"
P-251	33	81° 40' 3.992"	20° 21' 50.323"	P-252	33	81° 40' 0.329"	20° 21' 53.908"
P-253	34	81° 39' 55.322"	20° 22' 1.807"	P-254	34	81° 39' 51.819"	20° 22' 7.335"
P-255	34	81° 39' 46.900"	20° 22' 11.895"	P-256	34	81° 39' 42.020"	20° 22' 16.491"
P-257	34	81° 39' 56.804"	20° 21' 59.011"	P-258	35	81° 39' 28.762"	20° 22' 18.283"
P-259	35	81° 39' 25.867"	20° 22' 24.187"	P-260	35	81° 39' 23.645"	20° 22' 28.770"
P-261	36	81° 36' 41.351"	20° 25' 2.387"	P-262	36	81° 36' 37.113"	20° 24' 57.254"
P-263	36	81° 36' 33.179"	20° 24' 51.929"	P-264	36	81° 36' 30.950"	20° 24' 49.852"
P-265	36	81° 36' 23.700"	20° 24' 39.534"	P-266	36	81° 36' 18.072"	20° 24' 35.770"
P-267	36	81° 36' 11.692"	20° 24' 33.538"	P-268	36	81° 35' 59.711"	20° 24' 33.402"
P-269	36	81° 35' 59.692"	20° 24' 33.409"	P-270	36	81° 36' 30.950"	20° 24' 49.852"
P-271	36	81° 36' 26.578"	20° 24' 44.883"	P-272	36	81° 36' 6.451"	20° 24' 32.430"
P-273	36	81° 36' 1.499"	20° 24' 32.794"	P-274	37	81° 34' 14.031"	20° 28' 20.487"
P-275	37	81° 34' 7.988"	20° 28' 23.363"	P-276	37	81° 34' 6.349"	20° 28' 29.491"
P-277	37	81° 34' 5.954"	20° 28' 35.966"	P-278	37	81° 34' 5.113"	20° 28' 42.396"
P-279	37	81° 34' 4.787"	20° 28' 48.835"	P-280	37	81° 34' 3.366"	20° 28' 55.163"
P-281	37	81° 34' 3.135"	20° 29' 1.662"	P-282	37	81° 34' 0.222"	20° 29' 5.567"
P-283	38	81° 34' 8.324"	20° 27' 32.250"	P-284	38	81° 34' 3.998"	20° 27' 37.310"
P-285	38	81° 33' 59.232"	20° 27' 42.007"	P-286	38	81° 33' 52.910"	20° 27' 44.594"
P-287	38	81° 33' 46.887"	20° 27' 47.526"	P-288	38	81° 33' 44.157"	20° 27' 53.499"
P-289	38	81° 33' 40.372"	20° 27' 58.712"	P-290	38	81° 33' 38.165"	20° 28' 0.006"
P-291	39	81° 35' 56.507"	20° 27' 12.887"	P-292	39	81° 35' 53.494"	20° 27' 9.530"
P-293	39	81° 35' 56.507"	20° 27' 12.887"	P-294	39	81° 35' 50.873"	20° 27' 16.159"
P-295	39	81° 35' 44.290"	20° 27' 18.037"	P-296	39	81° 35' 37.477"	20° 27' 18.836"
P-297	39	81° 35' 34.094"	20° 27' 20.179"	P-298	39	81° 36' 8.434"	20° 27' 13.432"
P-299	39	81° 36' 1.623"	20° 27' 12.392"	P-300	39	81° 35' 56.507"	20° 27' 12.887"
P-301	39	81° 36' 8.434"	20° 27' 13.432"	P-302	39	81° 36' 1.623"	20° 27' 12.392"
P-303	39	81° 35' 56.507"	20° 27' 12.887"	P-304	40	81° 35' 52.829"	20° 26' 22.890"
P-305	40	81° 35' 58.022"	20° 26' 27.002"	P-306	40	81° 36' 4.462"	20° 26' 29.180"
P-307	40	81° 36' 7.686"	20° 26' 34.701"	P-308	40	81° 36' 9.822"	20° 26' 40.876"
P-309	40	81° 36' 11.273"	20° 26' 47.161"	P-310	40	81° 36' 17.465"	20° 26' 49.897"
P-311	40	81° 36' 19.624"	20° 26' 50.603"	P-312	41	81° 38' 1.850"	20° 26' 22.284"
P-313	41	81° 37' 57.723"	20° 26' 27.499"	P-314	41	81° 37' 52.839"	20° 26' 32.051"
P-315	41	81° 37' 47.466"	20° 26' 36.134"	P-316	41	81° 37' 42.801"	20° 26' 39.793"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-317	41	81° 38' 1.850"	20° 26' 22.284"	P-318	41	81° 37' 57.723"	20° 26' 27.499"
P-319	41	81° 37' 52.839"	20° 26' 32.051"	P-320	41	81° 37' 47.466"	20° 26' 36.134"
P-321	41	81° 37' 42.801"	20° 26' 39.793"	P-322	42	81° 38' 39.131"	20° 25' 49.831"
P-323	42	81° 38' 37.482"	20° 25' 56.109"	P-324	42	81° 38' 46.038"	20° 25' 38.535"
P-325	42	81° 38' 42.265"	20° 25' 43.947"	P-326	42	81° 38' 41.284"	20° 25' 45.768"
P-327	42	81° 38' 39.131"	20° 25' 49.831"	P-328	42	81° 38' 37.482"	20° 25' 56.109"
P-329	42	81° 38' 46.038"	20° 25' 38.535"	P-330	42	81° 38' 42.265"	20° 25' 43.947"
P-331	42	81° 38' 41.284"	20° 25' 45.768"	P-332	43	81° 38' 47.556"	20° 24' 36.595"
P-333	43	81° 38' 50.314"	20° 24' 42.559"	P-334	43	81° 38' 51.054"	20° 24' 49.002"
P-335	43	81° 38' 51.060"	20° 24' 55.490"	P-336	43	81° 38' 50.416"	20° 25' 1.966"
P-337	43	81° 38' 54.058"	20° 25' 7.408"	P-338	43	81° 38' 58.101"	20° 25' 12.539"
P-339	43	81° 38' 58.180"	20° 25' 12.552"	P-340	43	81° 39' 15.248"	20° 24' 42.824"
P-341	43	81° 39' 10.377"	20° 24' 46.819"	P-342	43	81° 39' 3.798"	20° 24' 48.743"
P-343	43	81° 38' 59.167"	20° 24' 52.793"	P-344	43	81° 38' 58.993"	20° 24' 53.589"
P-345	43	81° 38' 58.180"	20° 25' 12.552"	P-346	43	81° 38' 59.078"	20° 25' 4.106"
P-347	43	81° 38' 58.578"	20° 25' 10.583"	P-348	43	81° 38' 58.541"	20° 24' 57.934"
P-349	43	81° 38' 59.255"	20° 25' 1.711"	P-350	43	81° 38' 58.180"	20° 25' 12.552"
P-351	43	81° 38' 59.078"	20° 25' 4.106"	P-352	43	81° 38' 58.578"	20° 25' 10.583"
P-353	43	81° 38' 58.541"	20° 24' 57.934"	P-354	43	81° 38' 59.255"	20° 25' 1.711"
P-355	44	81° 39' 42.084"	20° 24' 22.319"	P-356	44	81° 40' 10.312"	20° 23' 33.232"
P-357	44	81° 40' 4.556"	20° 23' 36.692"	P-358	44	81° 40' 3.012"	20° 23' 42.787"
P-359	44	81° 40' 2.054"	20° 23' 49.166"	P-360	44	81° 39' 59.038"	20° 23' 55.005"
P-361	44	81° 39' 54.494"	20° 23' 59.884"	P-362	44	81° 39' 50.161"	20° 24' 4.909"
P-363	44	81° 39' 47.334"	20° 24' 10.842"	P-364	44	81° 39' 44.791"	20° 24' 16.890"
P-365	44	81° 39' 44.000"	20° 24' 18.798"	P-366	45	81° 42' 5.555"	20° 23' 31.170"
P-367	45	81° 41' 58.914"	20° 23' 29.985"	P-368	45	81° 41' 54.885"	20° 23' 28.248"
P-369	45	81° 41' 54.885"	20° 23' 28.248"	P-370	45	81° 41' 48.266"	20° 23' 26.590"
P-371	45	81° 41' 41.374"	20° 23' 26.638"	P-372	45	81° 41' 34.587"	20° 23' 25.479"
P-373	45	81° 41' 32.887"	20° 23' 25.263"	P-374	46	81° 42' 39.192"	20° 23' 38.763"
P-375	46	81° 42' 32.777"	20° 23' 37.173"	P-376	46	81° 42' 27.125"	20° 23' 33.658"
P-377	46	81° 42' 26.908"	20° 23' 33.540"	P-378	46	81° 42' 26.908"	20° 23' 33.540"
P-379	46	81° 42' 20.233"	20° 23' 32.794"	P-380	46	81° 42' 13.858"	20° 23' 30.649"
P-381	46	81° 42' 11.690"	20° 23' 29.792"	P-382	47	81° 43' 14.926"	20° 23' 43.423"
P-383	47	81° 43' 13.503"	20° 23' 49.754"	P-384	47	81° 43' 7.264"	20° 23' 51.998"
P-385	47	81° 43' 5.302"	20° 23' 57.998"	P-386	47	81° 43' 0.613"	20° 24' 2.303"
P-387	47	81° 42' 53.878"	20° 24' 3.673"	P-388	47	81° 42' 47.648"	20° 24' 4.685"
P-389	48	81° 43' 31.536"	20° 23' 43.123"	P-390	48	81° 43' 24.984"	20° 23' 41.946"
P-391	48	81° 43' 22.892"	20° 23' 41.123"	P-392	49	81° 43' 28.999"	20° 18' 57.002"
P-393	49	81° 43' 26.734"	20° 18' 51.606"	P-394	49	81° 43' 21.223"	20° 18' 47.777"
P-395	49	81° 43' 14.919"	20° 18' 46.609"	P-396	49	81° 43' 10.095"	20° 18' 51.197"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-397	49	81° 43' 6.887"	20° 18' 54.637"	P-398	50	81° 43' 52.818"	20° 20' 13.181"
P-399	50	81° 43' 49.566"	20° 20' 18.728"	P-400	50	81° 43' 50.164"	20° 20' 20.476"
P-401	50	81° 43' 51.386"	20° 20' 28.762"	P-402	50	81° 43' 51.736"	20° 20' 29.927"
P-403	50	81° 43' 51.736"	20° 20' 29.927"	P-404	50	81° 43' 54.943"	20° 20' 35.586"
P-405	50	81° 43' 50.350"	20° 20' 21.082"	P-406	50	81° 43' 51.196"	20° 20' 27.498"
P-407	50	81° 43' 51.386"	20° 20' 28.762"	P-408	51	81° 45' 18.707"	20° 21' 11.041"
P-409	51	81° 45' 14.572"	20° 21' 16.247"	P-410	51	81° 45' 10.938"	20° 21' 21.747"
P-411	51	81° 45' 8.002"	20° 21' 27.634"	P-412	51	81° 45' 7.644"	20° 21' 28.344"
P-413	51	81° 45' 19.100"	20° 21' 11.098"	P-414	51	81° 45' 14.963"	20° 21' 16.302"
P-415	51	81° 45' 11.344"	20° 21' 21.811"	P-416	51	81° 45' 8.407"	20° 21' 27.697"
P-417	51	81° 45' 7.992"	20° 21' 28.521"	P-418	52	81° 44' 54.090"	20° 21' 52.311"
P-419	52	81° 44' 48.547"	20° 21' 56.182"	P-420	52	81° 44' 44.635"	20° 22' 1.385"
P-421	52	81° 44' 42.257"	20° 22' 7.491"	P-422	52	81° 44' 39.537"	20° 22' 13.465"
P-423	52	81° 44' 37.630"	20° 22' 19.616"	P-424	52	81° 44' 37.223"	20° 22' 26.109"
P-425	52	81° 44' 34.999"	20° 22' 32.220"	P-426	52	81° 45' 1.341"	20° 21' 42.280"
P-427	52	81° 45' 0.351"	20° 21' 44.344"	P-428	52	81° 45' 0.351"	20° 21' 44.344"
P-429	52	81° 44' 57.163"	20° 21' 50.085"	P-430	52	81° 44' 54.090"	20° 21' 52.311"
P-431	52	81° 44' 53.613"	20° 21' 52.916"	P-432	52	81° 44' 48.108"	20° 21' 56.836"
P-433	52	81° 44' 44.703"	20° 22' 2.378"	P-434	52	81° 44' 42.290"	20° 22' 8.473"
P-435	52	81° 44' 39.461"	20° 22' 14.401"	P-436	52	81° 44' 37.995"	20° 22' 20.666"
P-437	52	81° 44' 37.523"	20° 22' 27.154"	P-438	52	81° 45' 3.901"	20° 21' 37.349"
P-439	52	81° 45' 1.266"	20° 21' 43.360"	P-440	52	81° 45' 0.628"	20° 21' 44.664"
P-441	52	81° 45' 0.628"	20° 21' 44.664"	P-442	52	81° 44' 57.332"	20° 21' 50.334"
P-443	52	81° 44' 53.613"	20° 21' 52.916"	P-444	53	81° 44' 16.490"	20° 22' 45.559"
P-445	53	81° 44' 17.741"	20° 22' 47.483"	P-446	54	81° 43' 36.671"	20° 24' 44.043"
P-447	54	81° 43' 43.227"	20° 24' 42.123"	P-448	54	81° 43' 50.098"	20° 24' 42.144"
P-449	54	81° 43' 56.875"	20° 24' 41.085"	P-450	54	81° 44' 3.008"	20° 24' 38.168"
P-451	54	81° 44' 9.523"	20° 24' 37.089"	P-452	54	81° 44' 12.153"	20° 24' 31.143"
P-453	54	81° 44' 14.081"	20° 24' 27.806"	P-454	55	81° 43' 25.228"	20° 25' 1.316"
P-455	55	81° 43' 28.874"	20° 24' 56.046"	P-456	55	81° 43' 29.523"	20° 24' 55.299"
P-457	56	81° 43' 11.451"	20° 25' 35.727"	P-458	56	81° 43' 13.479"	20° 25' 29.516"
P-459	56	81° 43' 15.071"	20° 25' 23.190"	P-460	56	81° 43' 15.856"	20° 25' 16.729"
P-461	56	81° 43' 17.463"	20° 25' 10.407"	P-462	56	81° 43' 19.594"	20° 25' 4.459"
P-463	57	81° 43' 33.115"	20° 27' 35.005"	P-464	57	81° 43' 30.117"	20° 27' 29.269"
P-465	57	81° 43' 27.340"	20° 27' 23.347"	P-466	57	81° 43' 27.649"	20° 27' 16.890"
P-467	57	81° 43' 28.313"	20° 27' 10.439"	P-468	57	81° 43' 28.333"	20° 27' 8.755"
P-469	58	81° 41' 45.230"	20° 27' 12.454"	P-470	58	81° 41' 51.930"	20° 27' 10.914"
P-471	58	81° 41' 57.524"	20° 27' 8.090"	P-472	58	81° 42' 2.666"	20° 27' 6.917"
P-473	59	81° 42' 30.426"	20° 27' 33.972"	P-474	59	81° 42' 35.515"	20° 27' 38.347"
P-475	59	81° 42' 41.498"	20° 27' 41.180"	P-476	59	81° 42' 48.398"	20° 27' 41.083"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-477	59	81° 42' 51.462"	20° 27' 41.210"	P-478	60	81° 42' 59.290"	20° 27' 58.399"
P-479	60	81° 43' 6.152"	20° 27' 59.038"	P-480	60	81° 43' 12.024"	20° 27' 59.533"
P-481	61	81° 39' 50.232"	20° 28' 4.389"	P-482	61	81° 39' 54.404"	20° 27' 59.208"
P-483	61	81° 39' 55.026"	20° 27' 58.267"	P-484	62	81° 38' 46.503"	20° 28' 45.206"
P-485	62	81° 38' 53.303"	20° 28' 44.324"	P-486	62	81° 38' 57.590"	20° 28' 48.048"
P-487	62	81° 39' 3.298"	20° 28' 49.453"	P-488	63	81° 38' 28.356"	20° 30' 17.497"
P-489	63	81° 38' 29.190"	20° 30' 11.075"	P-490	63	81° 38' 32.371"	20° 30' 5.469"
P-491	63	81° 38' 36.257"	20° 30' 0.142"	P-492	63	81° 38' 39.966"	20° 29' 54.732"
P-493	63	81° 38' 45.323"	20° 29' 50.627"	P-494	63	81° 38' 50.797"	20° 29' 46.666"
P-495	63	81° 38' 55.015"	20° 29' 41.662"	P-496	63	81° 38' 57.977"	20° 29' 35.901"
P-497	63	81° 38' 59.879"	20° 29' 29.938"	P-498	63	81° 38' 59.853"	20° 29' 23.432"
P-499	63	81° 38' 59.962"	20° 29' 21.781"	P-500	64	81° 35' 12.909"	20° 30' 25.402"
P-501	64	81° 35' 19.369"	20° 30' 23.129"	P-502	64	81° 35' 20.968"	20° 30' 22.552"
P-503	65	81° 36' 49.784"	20° 17' 9.567"	P-504	65	81° 36' 44.230"	20° 17' 9.161"
P-505	66	81° 37' 9.790"	20° 16' 29.363"	P-506	66	81° 37' 9.246"	20° 16' 35.767"
P-507	66	81° 37' 6.910"	20° 16' 41.883"	P-508	66	81° 37' 5.932"	20° 16' 43.800"
P-509	67	81° 36' 59.190"	20° 15' 1.456"	P-510	67	81° 37' 2.638"	20° 15' 3.194"
P-511	67	81° 37' 7.532"	20° 15' 5.189"	P-512	67	81° 37' 13.492"	20° 15' 8.433"
P-513	67	81° 37' 16.408"	20° 15' 9.555"	P-514	68	81° 36' 47.727"	20° 14' 23.372"
P-515	68	81° 36' 46.120"	20° 14' 29.481"	P-516	68	81° 36' 46.041"	20° 14' 29.710"
P-517	69	81° 36' 39.886"	20° 13' 43.563"	P-518	69	81° 36' 38.918"	20° 13' 49.859"
P-519	69	81° 36' 38.959"	20° 13' 50.319"	P-520	70	81° 37' 10.456"	20° 13' 11.551"
P-521	70	81° 37' 9.857"	20° 13' 12.430"	P-522	71	81° 38' 35.043"	20° 12' 39.431"
P-523	71	81° 38' 30.372"	20° 12' 41.678"	P-524	71	81° 38' 30.372"	20° 12' 41.678"
P-525	71	81° 38' 23.814"	20° 12' 41.467"	P-526	71	81° 38' 17.696"	20° 12' 44.212"
P-527	71	81° 38' 10.943"	20° 12' 44.906"	P-528	71	81° 38' 55.214"	20° 12' 30.505"
P-529	71	81° 38' 53.779"	20° 12' 31.896"	P-530	72	81° 39' 45.670"	20° 12' 39.974"
P-531	72	81° 39' 48.087"	20° 12' 46.052"	P-532	72	81° 39' 50.433"	20° 12' 52.137"
P-533	72	81° 39' 54.923"	20° 12' 57.027"	P-534	72	81° 39' 56.039"	20° 13' 3.315"
P-535	72	81° 39' 55.913"	20° 13' 6.644"	P-536	72	81° 39' 55.913"	20° 13' 6.644"
P-537	72	81° 39' 54.673"	20° 13' 13.020"	P-538	72	81° 39' 52.660"	20° 13' 19.240"
P-539	72	81° 39' 50.802"	20° 13' 25.505"	P-540	72	81° 39' 48.924"	20° 13' 31.763"
P-541	72	81° 39' 47.078"	20° 13' 38.023"	P-542	72	81° 39' 44.907"	20° 13' 44.194"
P-543	72	81° 39' 43.225"	20° 13' 45.963"	P-544	73	81° 39' 5.130"	20° 14' 57.703"
P-545	73	81° 39' 4.509"	20° 15' 4.160"	P-546	73	81° 39' 3.355"	20° 15' 10.566"
P-547	73	81° 39' 2.060"	20° 15' 16.952"	P-548	73	81° 39' 0.903"	20° 15' 22.579"
P-549	74	81° 41' 24.962"	20° 17' 41.369"	P-550	74	81° 41' 7.948"	20° 17' 37.516"
P-551	74	81° 41' 13.883"	20° 17' 40.688"	P-552	74	81° 41' 20.698"	20° 17' 41.455"
P-553	74	81° 41' 24.962"	20° 17' 41.369"	P-554	74	81° 41' 24.950"	20° 17' 41.809"
P-555	74	81° 41' 31.042"	20° 17' 41.136"	P-556	74	81° 41' 37.930"	20° 17' 41.358"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-557	74	81° 41' 44.824"	20° 17' 41.492"	P-558	74	81° 41' 45.539"	20° 17' 41.530"
P-559	75	81° 42' 54.357"	20° 17' 12.425"	P-560	75	81° 43' 0.811"	20° 17' 14.268"
P-561	75	81° 43' 4.142"	20° 17' 15.252"	P-562	76	81° 44' 12.317"	20° 17' 32.714"
P-563	76	81° 44' 13.574"	20° 17' 26.317"	P-564	76	81° 44' 14.723"	20° 17' 20.715"
P-565	77	81° 45' 23.323"	20° 16' 34.845"	P-566	77	81° 45' 22.810"	20° 16' 41.282"
P-567	77	81° 45' 21.325"	20° 16' 47.623"	P-568	77	81° 45' 19.002"	20° 16' 53.730"
P-569	77	81° 45' 16.596"	20° 16' 59.824"	P-570	77	81° 45' 14.273"	20° 17' 5.894"
P-571	77	81° 45' 13.648"	20° 17' 7.440"	P-572	78	81° 44' 21.438"	20° 16' 17.970"
P-573	78	81° 44' 27.061"	20° 16' 14.233"	P-574	78	81° 44' 30.368"	20° 16' 12.059"
P-575	78	81° 44' 18.604"	20° 16' 55.289"	P-576	78	81° 44' 18.657"	20° 16' 48.783"
P-577	78	81° 44' 18.684"	20° 16' 42.277"	P-578	78	81° 44' 18.752"	20° 16' 36.770"
P-579	79	81° 44' 56.299"	20° 15' 34.063"	P-580	79	81° 44' 59.149"	20° 15' 28.144"
P-581	79	81° 45' 1.803"	20° 15' 22.157"	P-582	79	81° 45' 4.375"	20° 15' 16.131"
P-583	79	81° 45' 6.952"	20° 15' 10.098"	P-584	79	81° 45' 7.652"	20° 15' 8.395"
P-585	80	81° 45' 38.241"	20° 15' 59.482"	P-586	80	81° 45' 52.026"	20° 15' 39.280"
P-587	80	81° 45' 47.870"	20° 15' 44.464"	P-588	80	81° 45' 44.279"	20° 15' 49.865"
P-589	80	81° 45' 41.601"	20° 15' 55.805"	P-590	80	81° 45' 40.260"	20° 15' 57.430"
P-591	81	81° 20' 35.904"	20° 23' 14.049"	P-592	81	81° 20' 34.502"	20° 23' 14.418"
P-593	82	81° 21' 27.230"	20° 26' 49.088"	P-594	82	81° 21' 24.045"	20° 26' 47.959"
P-595	83	81° 21' 15.893"	20° 26' 41.498"	P-596	83	81° 21' 13.497"	20° 26' 35.439"
P-597	83	81° 21' 13.612"	20° 26' 33.834"	P-598	84	81° 22' 39.900"	20° 25' 24.504"
P-599	84	81° 22' 46.562"	20° 25' 26.034"	P-600	84	81° 22' 49.998"	20° 25' 27.203"
P-601	85	81° 21' 5.385"	20° 32' 15.735"	P-602	85	81° 21' 5.542"	20° 32' 16.346"
P-603	86	81° 19' 13.245"	20° 27' 13.285"	P-604	86	81° 19' 18.740"	20° 27' 17.222"
P-605	86	81° 19' 18.900"	20° 27' 17.344"	P-606	87	81° 15' 39.170"	20° 26' 20.379"
P-607	87	81° 15' 39.223"	20° 26' 23.774"	P-608	88	81° 16' 30.408"	20° 29' 56.266"
P-609	88	81° 16' 25.933"	20° 29' 54.439"	P-610	89	81° 16' 22.210"	20° 29' 52.686"
P-611	89	81° 16' 18.948"	20° 29' 48.641"	P-612	90	81° 16' 13.298"	20° 29' 42.278"
P-613	90	81° 16' 12.228"	20° 29' 36.197"	P-614	90	81° 16' 12.519"	20° 29' 29.934"
P-615	91	81° 16' 12.519"	20° 29' 29.934"	P-616	91	81° 16' 11.639"	20° 29' 24.346"
P-617	92	81° 35' 36.289"	20° 22' 32.415"	P-618	92	81° 35' 40.570"	20° 22' 32.868"
P-619	93	81° 37' 46.605"	20° 19' 32.641"	P-620	93	81° 37' 46.028"	20° 19' 26.351"
P-621	93	81° 37' 47.710"	20° 19' 20.083"	P-622	93	81° 37' 48.726"	20° 19' 18.386"
P-623	94	81° 37' 47.402"	20° 19' 33.714"	P-624	94	81° 37' 46.605"	20° 19' 32.641"
P-625	95	81° 34' 26.292"	20° 25' 11.961"	P-626	95	81° 34' 19.402"	20° 25' 11.658"
P-627	95	81° 34' 17.625"	20° 25' 11.717"	P-628	96	81° 42' 37.674"	20° 18' 26.551"
P-629	96	81° 42' 33.985"	20° 18' 27.857"	P-630	97	81° 44' 34.721"	20° 22' 32.927"
P-631	97	81° 44' 33.750"	20° 22' 39.364"	P-632	97	81° 44' 33.099"	20° 22' 44.743"
P-633	98	81° 33' 0.724"	20° 30' 8.803"	P-634	98	81° 33' 3.924"	20° 30' 8.095"
P-635	99	81° 39' 57.182"	20° 27' 55.628"	P-636	99	81° 40' 1.824"	20° 27' 50.817"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-637	99	81° 40' 2.190"	20° 27' 50.426"	P-638	100	81° 41' 19.980"	20° 27' 21.849"
P-639	100	81° 41' 25.749"	20° 27' 18.468"	P-640	100	81° 41' 28.403"	20° 27' 18.055"
P-641	101	81° 41' 28.403"	20° 27' 18.055"	P-642	101	81° 41' 30.622"	20° 27' 17.368"
P-643	102	81° 41' 31.411"	20° 27' 17.077"	P-644	102	81° 41' 32.121"	20° 27' 16.800"
P-645	103	81° 41' 30.622"	20° 27' 17.368"	P-646	103	81° 41' 31.411"	20° 27' 17.077"
P-647	104	81° 41' 39.822"	20° 27' 14.592"	P-648	104	81° 41' 45.224"	20° 27' 12.455"
P-649	105	81° 41' 37.728"	20° 27' 15.396"	P-650	105	81° 41' 39.822"	20° 27' 14.592"
P-651	106	81° 42' 56.426"	20° 27' 55.972"	P-652	106	81° 42' 56.452"	20° 27' 56.514"
P-653	107	81° 43' 28.333"	20° 27' 8.755"	P-654	107	81° 43' 28.578"	20° 27' 6.392"
P-655	108	81° 37' 7.857"	20° 26' 17.820"	P-656	108	81° 37' 7.523"	20° 26' 15.574"
P-657	109	81° 39' 32.496"	20° 12' 20.097"	P-658	109	81° 39' 32.834"	20° 12' 16.603"
P-659	110	81° 35' 34.615"	20° 20' 19.298"	P-660	110	81° 35' 34.488"	20° 20' 20.739"
P-661	111	81° 35' 35.490"	20° 20' 15.866"	P-662	111	81° 35' 34.920"	20° 20' 17.651"
P-663	112	81° 35' 55.708"	20° 20' 1.710"	P-664	112	81° 35' 54.311"	20° 20' 2.895"
P-665	113	81° 36' 0.892"	20° 19' 58.812"	P-666	113	81° 36' 0.366"	20° 19' 58.989"
P-667	114	81° 35' 59.407"	20° 19' 59.332"	P-668	114	81° 35' 58.388"	20° 19' 59.897"
P-669	115	81° 36' 7.332"	20° 19' 57.024"	P-670	115	81° 36' 7.083"	20° 19' 57.240"
P-671	116	81° 39' 37.402"	20° 12' 16.643"	P-672	116	81° 39' 32.759"	20° 12' 20.002"
P-673	117	81° 36' 36.629"	20° 14' 8.964"	P-674	117	81° 36' 35.972"	20° 14' 10.878"
P-675	118	81° 36' 35.972"	20° 14' 10.878"	P-676	118	81° 36' 35.875"	20° 14' 11.463"
P-677	119	81° 36' 37.015"	20° 14' 7.838"	P-678	119	81° 36' 36.629"	20° 14' 8.964"
P-679	120	81° 36' 37.279"	20° 14' 6.469"	P-680	120	81° 36' 37.015"	20° 14' 7.838"
P-681	121	81° 36' 37.583"	20° 14' 5.002"	P-682	121	81° 36' 37.279"	20° 14' 6.469"
P-683	122	81° 37' 10.978"	20° 13' 8.585"	P-684	122	81° 37' 7.843"	20° 13' 13.395"
P-685	123	81° 37' 13.590"	20° 13' 4.259"	P-686	123	81° 37' 10.978"	20° 13' 8.585"
P-687	124	81° 33' 22.041"	20° 20' 29.539"	P-688	124	81° 33' 23.009"	20° 20' 31.251"
P-689	125	81° 33' 19.743"	20° 20' 26.765"	P-690	125	81° 33' 22.041"	20° 20' 29.539"
P-691	126	81° 33' 7.308"	20° 20' 12.015"	P-692	126	81° 33' 5.635"	20° 20' 10.196"
P-693	127	81° 33' 22.709"	20° 24' 25.463"	P-694	127	81° 33' 22.343"	20° 24' 26.391"
P-695	128	81° 33' 21.724"	20° 23' 46.838"	P-696	128	81° 33' 23.994"	20° 23' 52.979"
P-697	128	81° 33' 25.056"	20° 23' 59.364"	P-698	128	81° 33' 24.900"	20° 24' 3.422"
P-699	129	81° 34' 25.241"	20° 25' 11.194"	P-700	129	81° 34' 22.494"	20° 25' 8.257"
P-701	130	81° 34' 12.600"	20° 24' 50.539"	P-702	130	81° 34' 13.544"	20° 24' 52.115"
P-703	131	81° 34' 8.324"	20° 24' 47.451"	P-704	131	81° 34' 12.600"	20° 24' 50.539"
P-705	132	81° 32' 5.092"	20° 20' 51.693"	P-706	132	81° 32' 6.588"	20° 20' 55.041"
P-707	133	81° 15' 24.836"	20° 25' 46.593"	P-708	133	81° 15' 23.887"	20° 25' 42.472"
P-709	134	81° 22' 12.524"	20° 29' 17.203"	P-710	134	81° 22' 14.249"	20° 29' 17.625"
P-711	135	81° 22' 14.358"	20° 29' 17.428"	P-712	135	81° 22' 14.539"	20° 29' 17.004"
P-713	136	81° 22' 14.539"	20° 29' 17.004"	P-714	136	81° 22' 15.009"	20° 29' 15.918"
P-715	137	81° 22' 15.009"	20° 29' 15.918"	P-716	137	81° 22' 15.145"	20° 29' 15.613"

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Point	Patch	Longitude in D:M:S	Latitude in D:M:S	Point	Patch	Longitude in D:M:S	Latitude in D:M:S
P-717	138	81° 22' 15.145"	20° 29' 15.613"	P-718	138	81° 22' 15.281"	20° 29' 15.307"
P-719	139	81° 22' 15.281"	20° 29' 15.307"	P-720	139	81° 22' 14.955"	20° 29' 13.988"
P-721	140	81° 22' 16.413"	20° 29' 12.741"	P-722	140	81° 22' 15.839"	20° 29' 14.036"
P-723	141	81° 38' 49.906"	20° 25' 28.699"	P-724	141	81° 38' 48.755"	20° 25' 33.840"
P-725	142	81° 38' 55.646"	20° 25' 18.894"	P-726	142	81° 38' 55.359"	20° 25' 19.283"
P-727	143	81° 37' 42.801"	20° 26' 39.793"	P-728	143	81° 37' 38.954"	20° 26' 42.873"
P-729	144	81° 34' 27.957"	20° 25' 12.699"	P-730	144	81° 34' 26.292"	20° 25' 11.961"
P-731	145	81° 38' 59.255"	20° 25' 1.711"	P-732	145	81° 38' 59.224"	20° 25' 2.781"
P-733	146	81° 31' 54.421"	20° 20' 38.183"	P-734	146	81° 31' 54.738"	20° 20' 38.459"
P-735	147	81° 32' 34.542"	20° 19' 58.414"	P-736	147	81° 32' 33.382"	20° 19' 59.018"
P-737	148	81° 22' 13.596"	20° 29' 13.283"	P-738	148	81° 22' 16.035"	20° 29' 14.116"
P-739	149	81° 22' 14.955"	20° 29' 13.988"	P-740	149	81° 22' 13.534"	20° 29' 13.402"

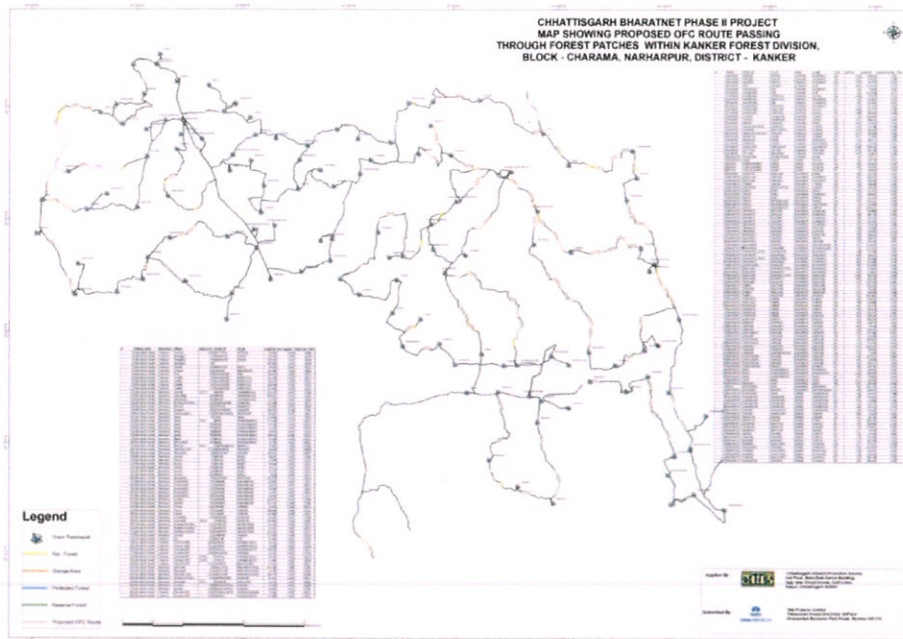

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Divisional Forest Officer
 Forest Division Kanker



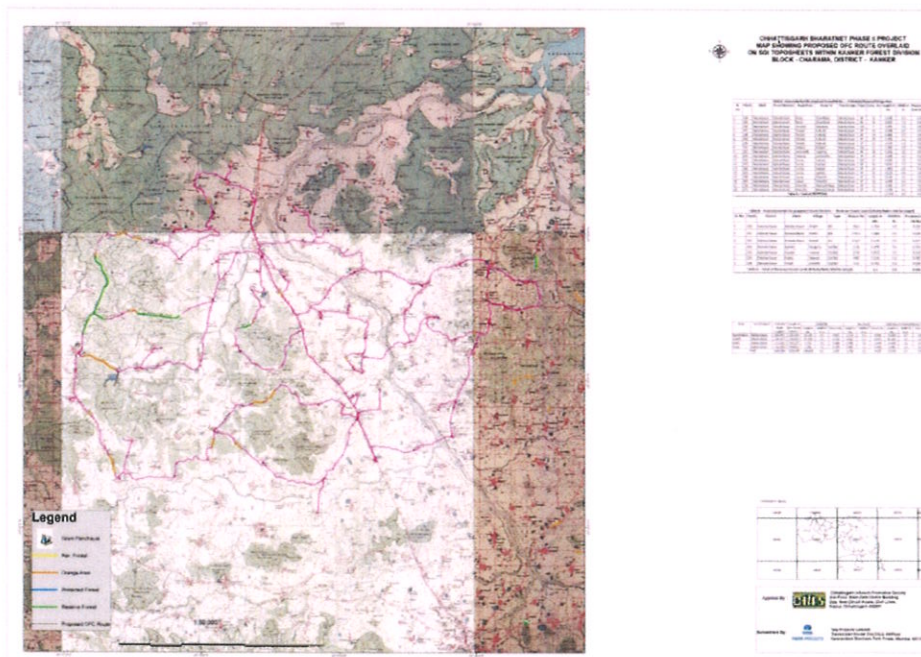
5.3. Geo-Referenced Maps of the Proposed Route (Annexure-3)

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



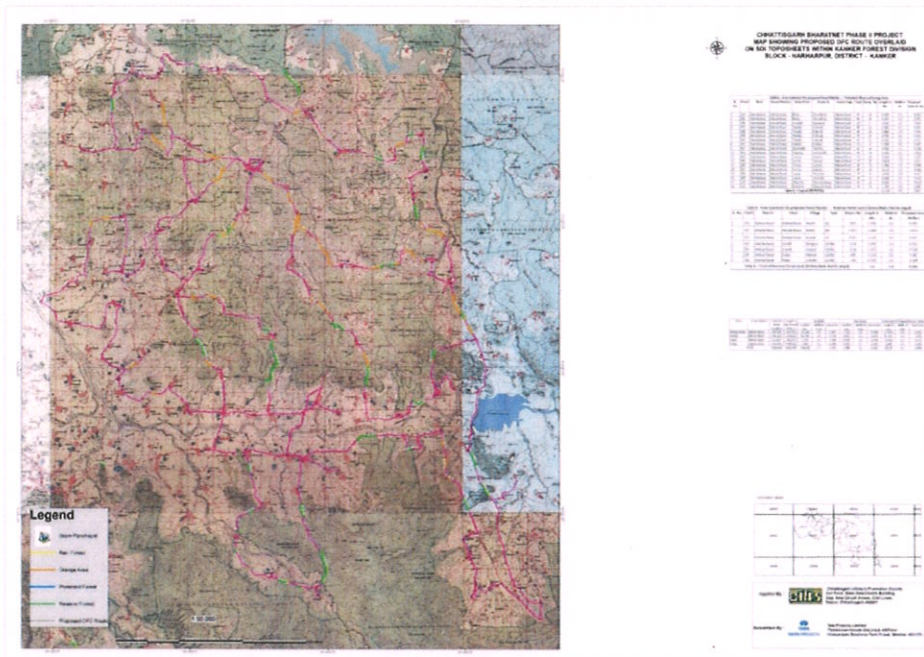
Geo-Referenced Maps of Forest Patched with in Kanker Forest Division

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



Geo-Referenced Toposheet Map of Forest Patched of Charama block within Kanker Forest Division.

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Geo-Referenced Toposheet Map of Forest Patched of Nagri block within Kanker Forest Division.

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