

LIDAR / DGPS Survey Report for Forest Diversion of
Proposed OFC Cable routes in Dharamjaygarh Division with
Route Length 167.080 Km.

APPLICATION SUBMITTED BY:

Jio Digital Fibre Private Ltd.



LIDAR / DGPS SURVEY AND GIS MAPPING DONE BY:

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1 Introduction and Background

1.1 Background

This is with reference to the Order of Hon'ble National Company Law Tribunal (NCLT) Ahmedabad Bench dated; 20th March 2019 in CP (CAA) No. 13/NCLT/AHM/2019 IN, CP (CAA) No.10/NCLT/AHM/2019. As per the Order, with effect from the close of business hours of 31st March 2019 (Effective Date), M/s Reliance Jio demerged the Optic Fibre Undertaking to "Jio Digital Fibre Private Limited".

Jio Digital Fibre Private Limited is registered with Department of Telecommunication (DOT) is as infrastructure Provider Category-I (IP-I) vide Registration Certificate No. 935/2019 dated; 06th March 2019, having its Registered Office: Office No. 101, Saffron, Nr. Centre Point, Panchwati 5 Rasta, Ambawadi, Ahmedabad-380006 Gujarat, India to establish and maintain the assets such as Dark Fibres, Right of Way, Duct space and Tower.

We are planning to lay Optical Fibre Cable (OFC) through duct, adopting methodologies like HDD, Open Trench, Micro Trench, Clamping and other methods conducive on ground. The above chain age falls under your jurisdiction, as such we seek your cooperation to construct a fibre optic backbone link. Rest assured that the work will be carried out as per standards, guidelines and policies of the authority for laying the OFC, we are also earmarking on SLD-the provisioning of road bridges likely and would appreciate specific instructions wherever applicable.

In order to provide world class 4G telecom services to the remotest part of the Chhattisgarh State, Reliance Jio Digital Fiber Pvt. Ltd is investing in the telecom infrastructure. This includes installation of mobile towers and laying Optical Fibre Cables (OFC). These OFCs are being laid to fulfill dream of our Chairman to provide affordable broadband connectivity to the last user at the bottom of social pyramid. Primary objective is to ensure the mobile connectivity is extended to 95% of population and 90% of geography in the state before year 2022.

This Optical Fibre Cable system will fulfill the needs of Telecommunication circuits and Wireless Broadband Services and Other Data for the Government, Industries, Defense and Society. This telecom Infrastructure shall lead to growth in economy and hence more employment and better living conditions of the geography/state/country.

This scheme of laying OFC is most modern and state of art Technology in the field of Digital Telecommunication. Moreover, the same cable will provide most of new value-added services as well as it will cater for the needs of integrated services digital network.

1.2 Proposed Routes

Following image (Fig-1) shows the proposed routes in Dharamjaygarh Division

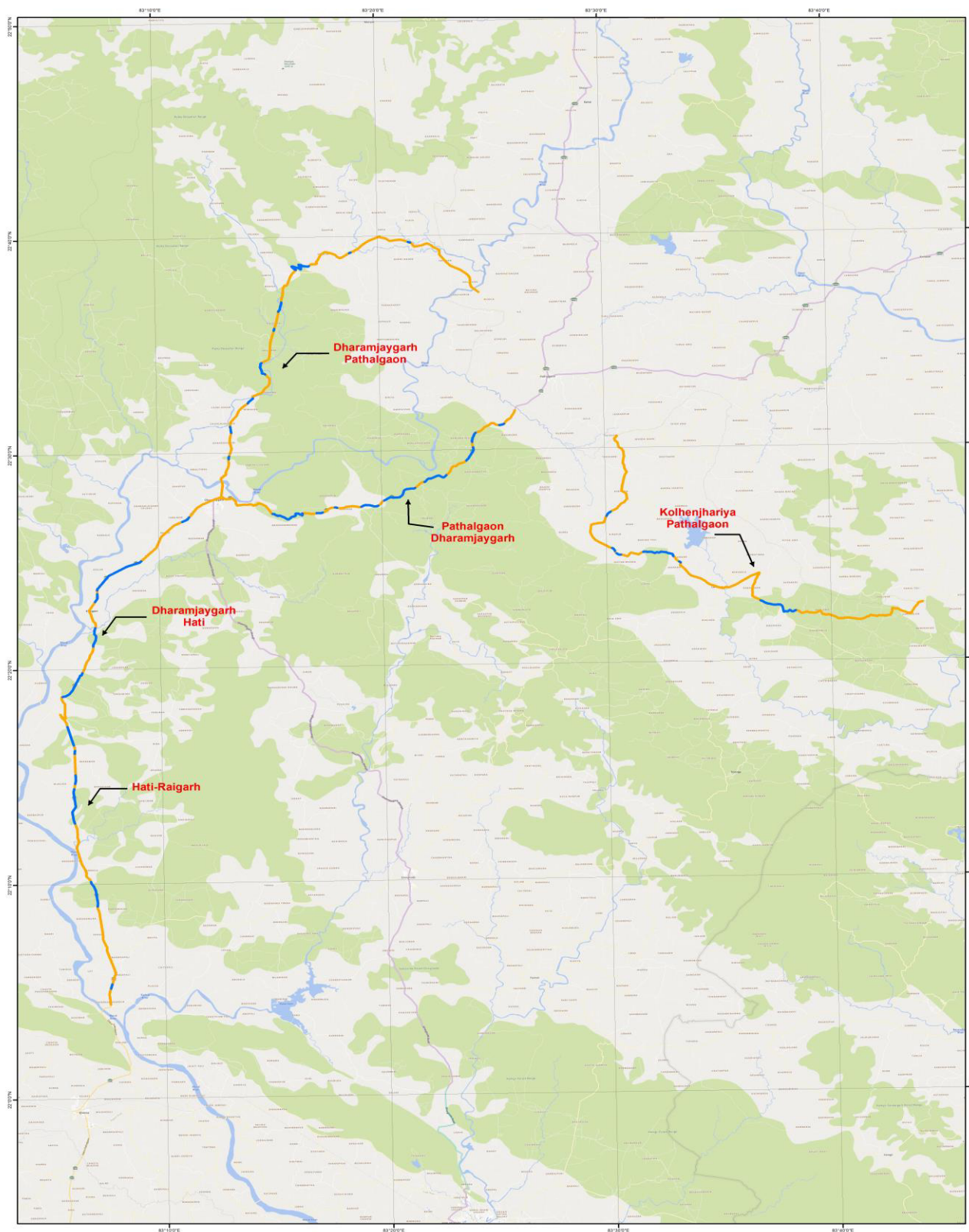


Fig-1: OFC Cable Proposed Routes on Online Map in Dharamjaygarh Division.

1.3 Work Location

The proposed OFC Cable route in Dharamjaygarh Forest Division Tehsils covered along the route is: Udaipur (Dharamjaygarh) & Lailunga District: Raigarh the Division length is approx. 167.080 km. The survey site passes through forest ranges – Dharamjaygarh, Chhal, Boro, Kapu, Bakaruma & Lailunga of Dharamjaygarh forest division. The OFC Cable route is covered under Survey of India Toposheets 64N2, 64N3, 64N4, 64N6, 64N7, 64N10 & 64N11 on RF 1:50000.

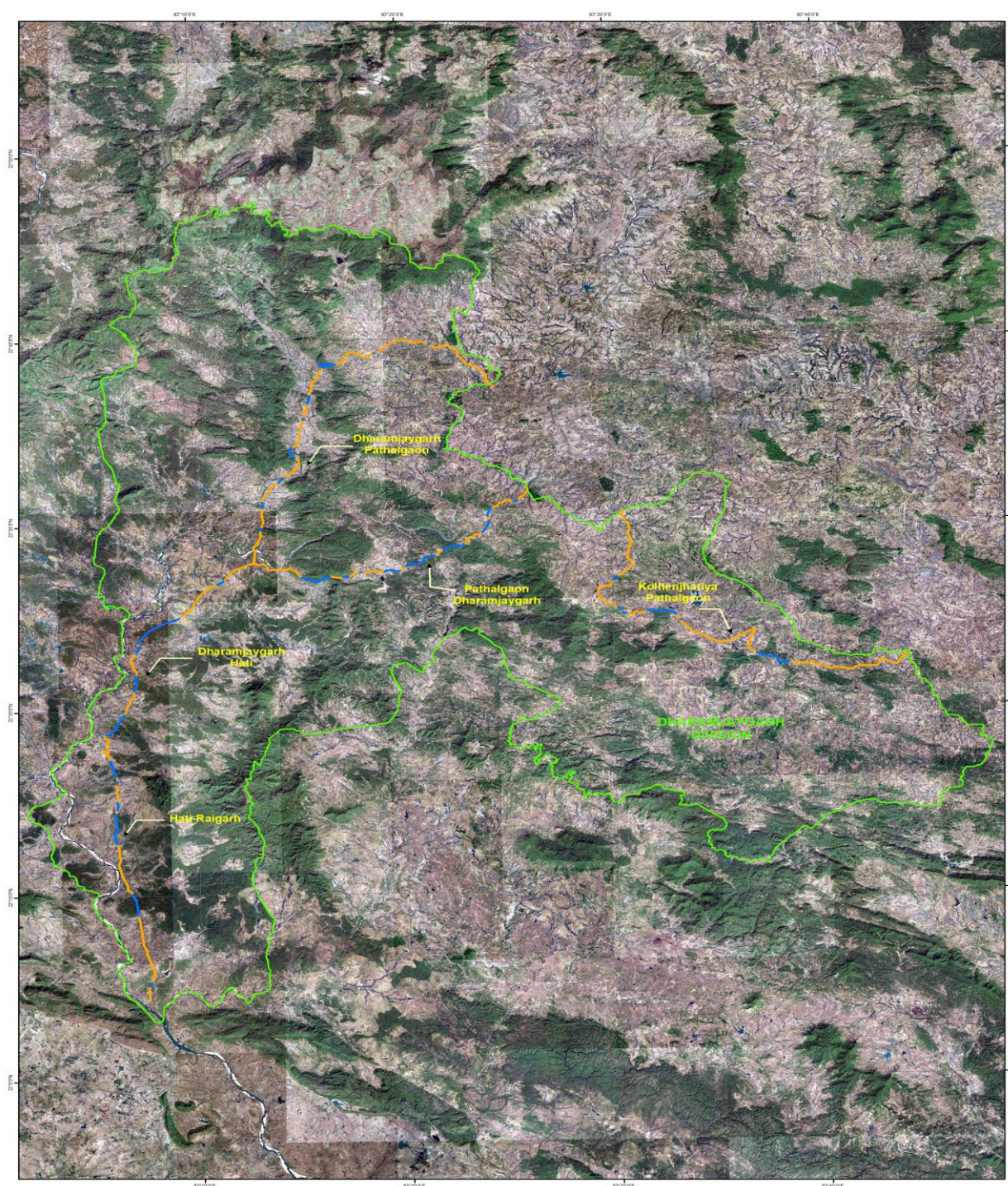


Fig-2: OFC Cable Proposed Routes on Satellite Imagery in Dharamjaygarh Division.

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 Differential GPS (DGPS) and the same should be uploaded to MoEF website along with the online application.

2 cope of Work

1. Establishment of one base station with 72 Hours observation and secondary control points at every 10km along the proposed route.
2. DGPS Survey for collection of ground coordinates along the OFC Cable trench at every 50m 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
 - a. Geo-referencing of SOI Toposheet (1:50000), Forest Stock map (1:15000, if available) and satellite imagery
 - b. Creation of OFC Cable trench boundary vector map using the DGPS Surveyed data
 - c. Superimposition of cable route layer on Geo-referenced forest maps, SOI Toposheet and Satellite imagery.
 - d. Computation of Forest area proposed for diversion. It includes Reserved/Protected Forest & Revenue Forest.
 - e. Preparation of Geo-referenced forest map at 1:15000 scale, and SOI Toposheet at 1:50000 scale.
 - f. Preparation of DGPS survey report along with soft copy of maps in shape file format and kml file
4. Printing of report and Geo-referenced maps and Technical compliance.

3 Deliverables

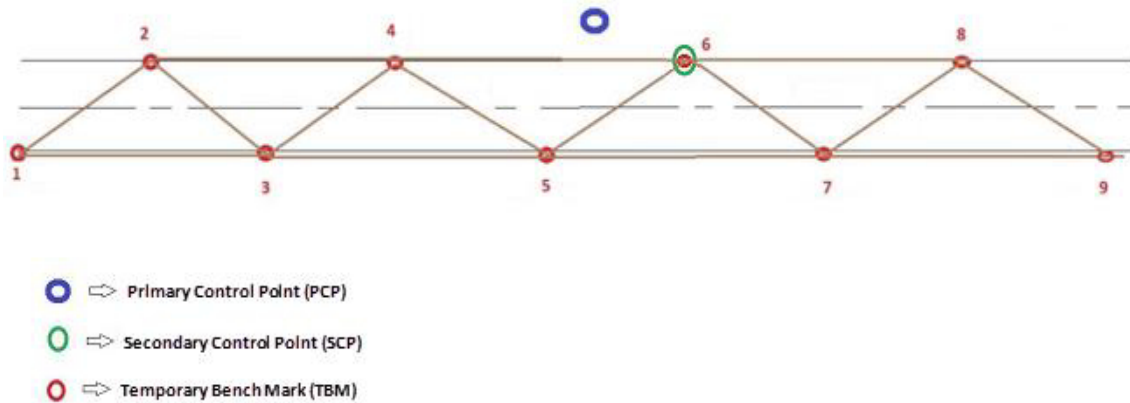
The deliverables envisaged for the assignment are described below

1. Post processed DGPS observations data as well as raw data in RINEX format.
2. DGPS Reports - Base line & network adjustment report for the primary and Secondary Control Points.
3. Geo-referenced SOI maps & forest block maps based on DGPS observations – Hard and Soft Copy (SHP and KML formats).
4. Proposed Forest Diversion area statement as per DGPS Survey.
5. DGPS Survey and mapping report.

4 Technical Approach (Brief Description)

4.1 GCP Establishment for LIDAR (DGPS) Survey:

Example of defined Triangular Network GCP method.



Primary Control Point: 72 Hours of DGPS observation for Post Processing the PCP data with IGS stations.

Secondary Control Point: 2 - 4 Hours of DGPS observation for Post Processing the SCP data with PCP Data.

Temporary Bench Mark: 1 Hour of DGPS observation for improving the spatial accuracy of the LIDAR point cloud data.

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.



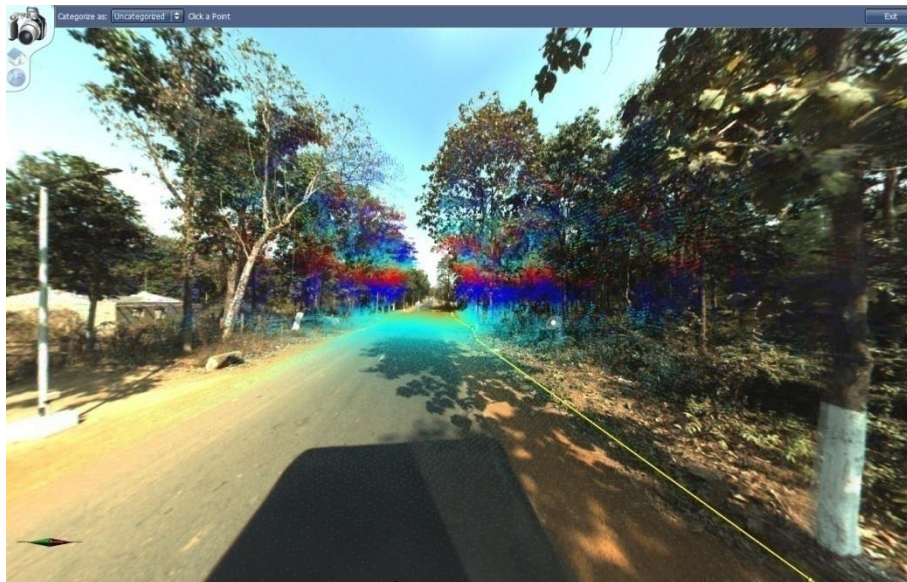
Feature Extraction on LIDAR



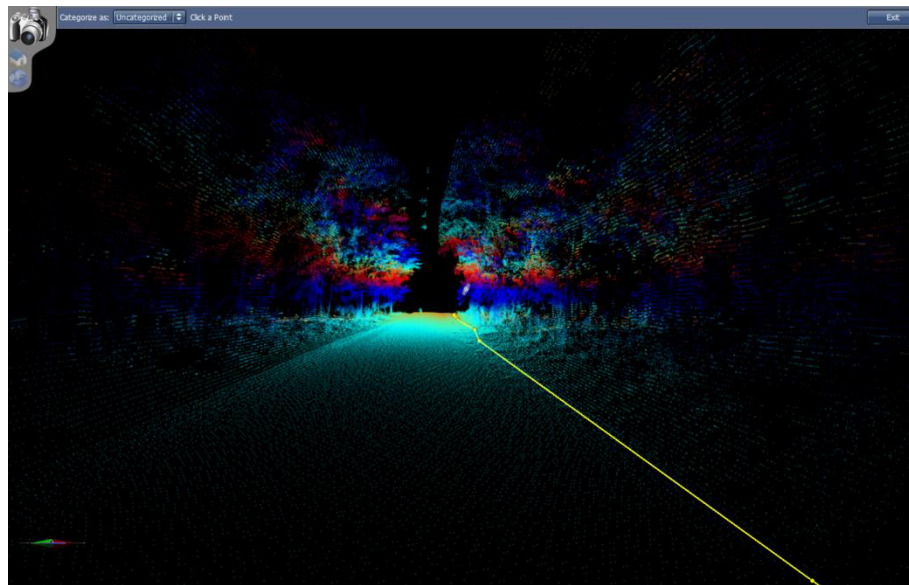
Final DRS / GIS Map

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.



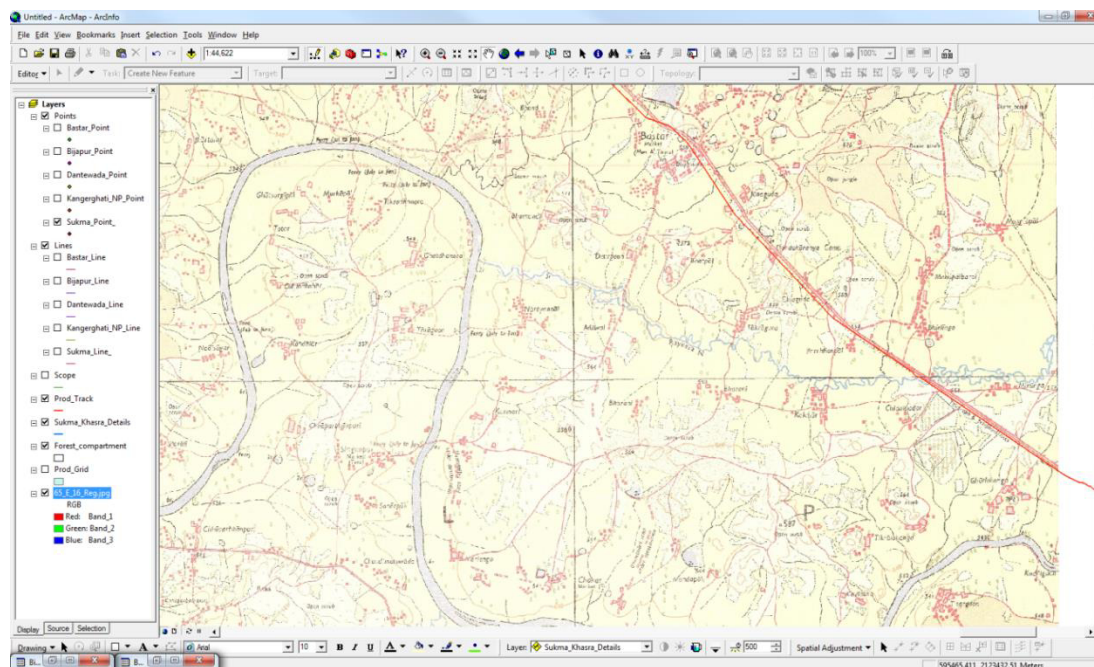
Proposed OFC Line on LIDAR Data (with Panoramic Imagery)



Proposed OFC Line on LIDAR Data only

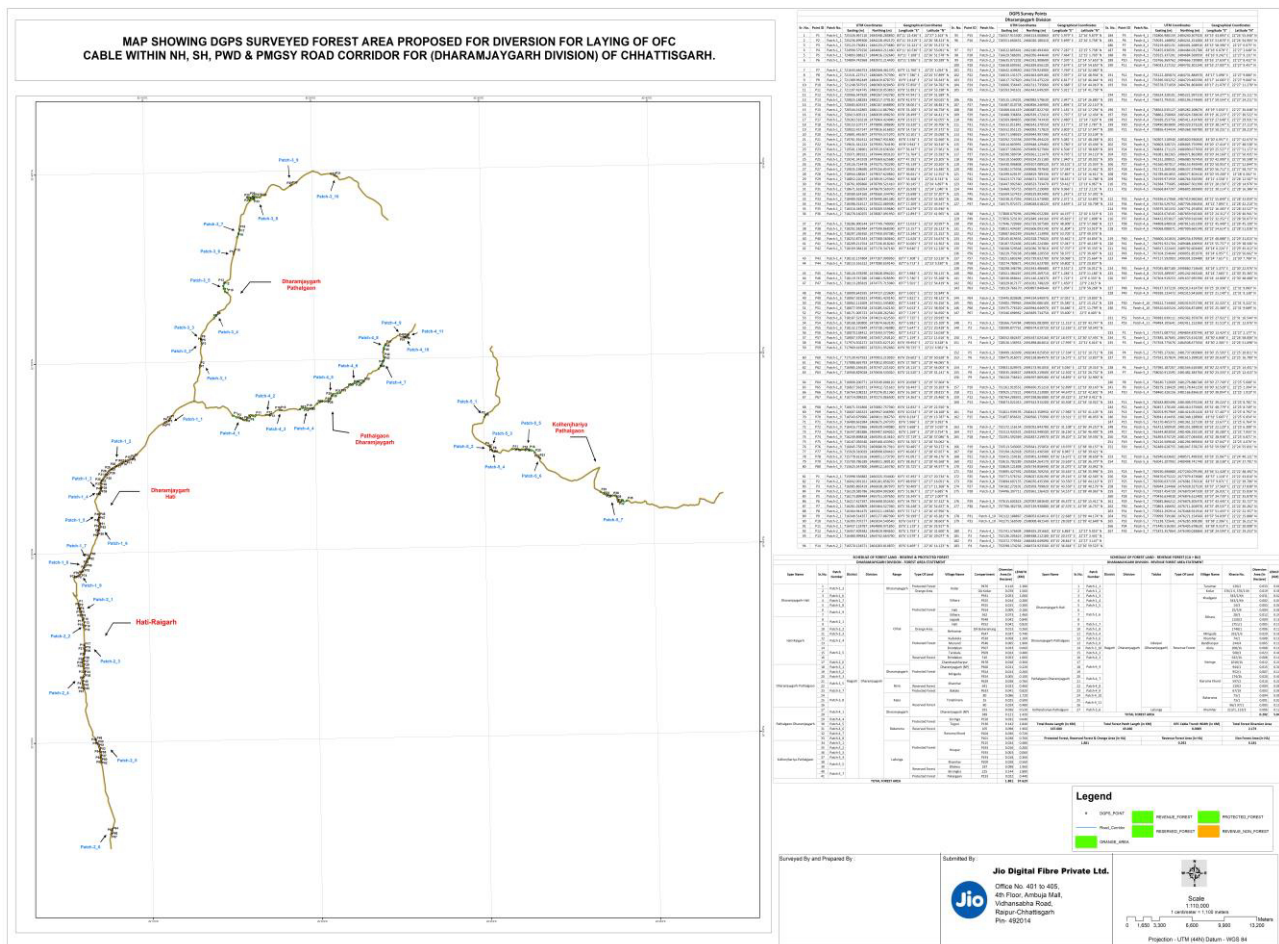
4.5 Geo-referencing of Maps:

Geo-referencing of Revenue Village Maps, SOI Toposheets and Forest Maps are to be done. SOI Toposheets and Forest Maps 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 (at least 5 GCPs for a village having Government Forest Land are to be collected)



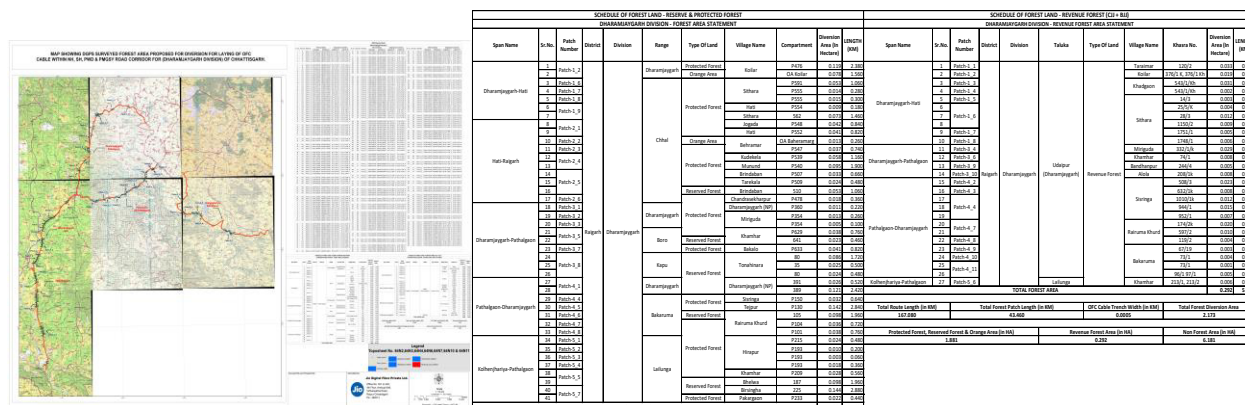
4.6 Creation of Vector Data for Forest Diversion:

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



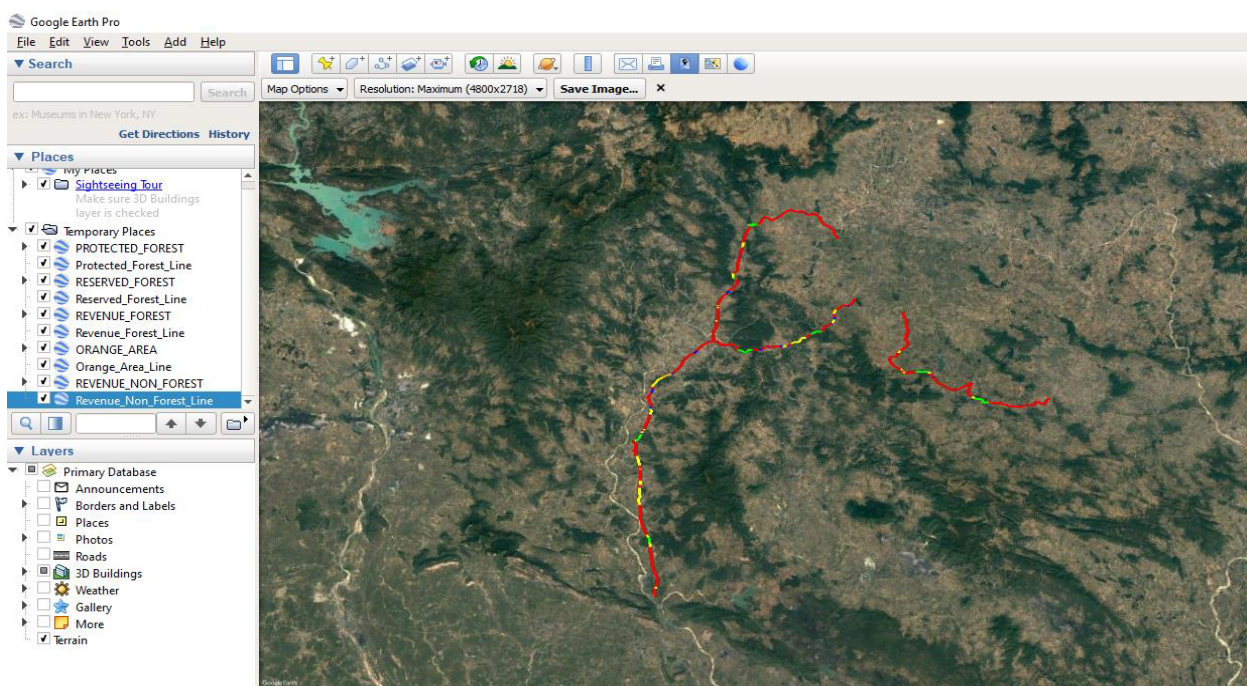
4.7 Generation of Map and Survey Reports for Forest Diversion:

A map is created by overlaying the created vector data for the forest patches on the Geo-referenced SOI Toposheets / Forest Maps. The reports are generated for DGPS Points (with Lat/long) placed at the regular intervals of 150m 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



KML File

SCHEDULE OF FOREST LAND - RESERVE & PROTECTED FOREST

DHARAMJAYGARH DIVISION - FOREST AREA STATEMENT

Span Name	Sr. No.	Patch Number	District	Division	Range	Type Of Land	Village Name	Compartment	Diversion Area (In Hectare)	LENGTH (KM)
Dharamjaygarh-Hati	1	Patch-1_2	Raigarh	Dharamjaygarh	Dharamjaygarh	Protected Forest	Koilar	P476	0.119	2.380
	2					Orange Area		OA Koilar	0.078	1.560
	3	Patch-1_6				Protected Forest	Sithara	P591	0.053	1.060
	4	Patch-1_7						P555	0.014	0.280
	5	Patch-1_8						P555	0.015	0.300
	6	Patch-1_9						P554	0.009	0.180
	7					Reserved Forest	Sithara	562	0.073	1.460
Hati-Raigarh	8	Patch-2_1	Raigarh	Dharamjaygarh	Chhal	Protected Forest	Jogada	P548	0.042	0.840
	9					Protected Forest	Hati	P552	0.041	0.820
	10	Patch-2_2				Orange Area	Behramar	OA	0.013	0.260
	11	Patch-2_3						Baheramarg	0.037	0.740
	12	Patch-2_4				Protected Forest	Kudekela	P539	0.058	1.160
	13						Munund	P540	0.095	1.900
	14						Brindaban	P507	0.033	0.660
	15	Patch-2_5					Tarekala	P509	0.024	0.480
	16					Reserved Forest	Brindaban	510	0.053	1.060



SCHEDULE OF FOREST LAND - RESERVE & PROTECTED FOREST

DHARAMJAYGARH DIVISION - FOREST AREA STATEMENT

Hati-Raigarh	17	Patch- 2_6	Raigarh										Dharamjaygarh										Chhal	Protected Forest	Chandrasekharpur	P478	0.018	0.360		
Dharamjaygarh- Pathalgaon	18	Patch- 3_1																					Dharamjaygarh		Protected Forest	Dharamjaygarh (NP)	P360	0.011	0.220	
	19	Patch- 3_2																						Boro			Reserved Forest	Miriguda	P354	0.013
	20	Patch- 3_3																					Protected Forest		Khamhar	P354			0.005	0.100
	21	Patch- 3_5																								Protected Forest			Bakalo	P629
	22																						Reserved Forest	641	0.023		0.460			
Pathalgaon- Dharamjaygarh	23	Patch- 3_7																					Kapu	Reserved Forest	Tonahinara	P633	0.041	0.820		
	24																									Dharamjaygarh	Protected Forest	80	0.086	1.720
	25	Patch- 3_8																										35	0.025	0.500
	26																						Dharamjaygarh	Protected Forest	80	0.024	0.480			
	27	Patch- 4_1																							Sisinga	Protected Forest	391	0.026	0.520	
28																						Tejpur	Protected Forest	389			0.121	2.420		
Kolhenjhariya- Pathalgaon	29	Patch- 4_4																						Bakaruma	Reserved Forest	Rairuma Khurd	P150	0.032	0.640	
	30	Patch- 4_5																					Protected Forest				P130	0.142	2.840	
	31	Patch- 4_6																									105	0.098	1.960	
	32	Patch- 4_7																					Protected Forest	P104	0.036	0.720				
	33	Patch- 4_8																						Hirapur	P101	0.038	0.760			
34	Patch- 5_1																					Lailunga	Protected Forest	P215	0.024	0.480				



SCHEDULE OF FOREST LAND - RESERVE & PROTECTED FOREST

DHARAMJAYGARH DIVISION - FOREST AREA STATEMENT

Kolhenjhariya- Pathalgaon	35	Patch- 5_2	Raigarh	Dharamjaygarh	Lailunga	Protected Forest	Hirapur	P193	0.010	0.200	
	36	Patch- 5_3						P193	0.003	0.060	
	37	Patch- 5_4						P193	0.018	0.360	
	38	Patch- 5_5	Reserved Forest	Khamhar	P209	0.028	0.560				
	39	Bhelwa		187	0.098	1.960					
	40			Birsingha	225	0.144	2.880				
	41	Pakargaon	P233	0.022	0.440						
	TOTAL FOREST AREA									1.881	37.620

SCHEDULE OF FOREST LAND - REVENUE FOREST (CJJ + BJJ)

DHARAMJAYGARH DIVISION - REVENUE FOREST AREA STATEMENT

Span Name	Sr. No.	Patch Number	District	Division	Taluka	Type Of Land	Village Name	Khasra No.	Diversion Area (In Hectare)	LENGTH (KM)
Dharamjaygarh-Hati	1	Patch-1_1	Raigarh	Dharamjaygarh	Udaipur (Dharamjaygarh)	Revenue Forest	Taraimar	120/2	0.033	0.660
	2	Patch-1_2					Koilar	376/1 K, 376/1 Kh	0.019	0.380
	3	Patch-1_3					Khadgaon	543/1/Kh	0.031	0.620
	4	Patch-1_4						543/1/Kh	0.002	0.040
	5	Patch-1_5					Sithara	14/3	0.003	0.060
	6	Patch-1_6						25/5/K	0.004	0.080
	7						28/3	0.012	0.240	



SCHEDULE OF FOREST LAND - REVENUE FOREST (CJJ + BJJ)

DHARAMJAYGARH DIVISION - REVENUE FOREST AREA STATEMENT

Dharamjaygarh- Hati	8	Patch- 1_6	Raigarh Dharamjaygarh Udaipur (Dharamjaygarh) Revenue Forest	Sithara	1150/2	0.009	0.180	
	9	Patch- 1_7			1751/1	0.005	0.100	
	10	Patch- 1_8			1748/1	0.006	0.120	
Dharamjaygarh- Pathalgaon	11	Patch- 3_4			332/1/k	0.029	0.580	
	12	Patch- 3_6			74/1	0.008	0.160	
	13	Patch- 3_9			244/4	0.005	0.100	
Pathalgaon- Dharamjaygarh	14	Patch- 3_10			Alola	208/1k	0.008	0.160
	15	Patch- 4_2			Sisinga	508/3	0.023	0.460
	16	Patch- 4_3				632/1k	0.008	0.160
	17	Patch- 4_4				1010/1k	0.012	0.240
	18					944/1	0.015	0.300
	19				952/1	0.007	0.140	
	20	Patch- 4_7			Rairuma Khurd	174/2k	0.020	0.400
	21	Patch- 4_8				597/2	0.010	0.200
	22					119/2	0.004	0.080
	Pathalgaon- Dharamjaygarh	23			Patch- 4_9	Bakaruma	67/19	0.003
24		Patch- 4_10			73/1		0.004	0.080
25		Patch- 4_11			73/1		0.001	0.020



SCHEDULE OF FOREST LAND - REVENUE FOREST (CJJ + BJJ)

DHARAMJAYGARH DIVISION - REVENUE FOREST AREA STATEMENT

Pathalgaon-Dharamjaygarh	26	Patch-4_11	Raigarh	Dharamjaygarh	Udaipur (Dharamjaygarh)	Revenue Forest	Bakaruma	96/1 97/1	0.005	0.100
Kolhenjariya-Pathalgaon	27	Patch-5_6			Lailunga		Khamihar	213/1, 213/2	0.006	0.120
TOTAL FOREST AREA										
Total Route Length (in KM)	167.080	Total Forest Patch Length (in KM)		43.460	OFC Cable Trench Width (in KM)		0.0005	Total Forest Diversion Area		2.173
Protected Forest, Reserved Forest & Orange Area (in HA)	1.881	Revenue Forest Area (in HA)		0.292	Non Forest Area (in HA)		6.181			



उप वन मण्डलाधिकारी
लैलुंगा

वन परिक्षेत्र अधिकारी
(कापुसा)

वन परिक्षेत्राधिकारी
परिक्षेत्र-बोरो

वन परिक्षेत्राधिकारी
धरमजयगढ़

वन परिक्षेत्र अधिकारी
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बाकारुमा परिक्षेत्र

उप वन मण्डलाधिकारी
धरमजयगढ़ उप वन मण्डल

वन मण्डलाधिकारी
धरमजयगढ़ वन मण्डल
जिला रायगढ़ (छ.ग.)

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

Dharamjaygarh Division					
Primary Control Point (Fixing of Base Station Point)					
Sl. No.	Point. ID	Geographical Coordinates		UTM Coordinates	
		Latitude (DMS)	Longitude (DMS)	Northing	Easting
1	PCP 1	N22°27'58.56"	E83°12'42.59"	2486117.043	727593.429
2	PCP2	N22°23'26.40"	E83°35'31.41"	2478369.885	766880.403
3	PCP 3	N22°12'41.14"	E83°06'08.86"	2457732.999	716729.489

DGPS Survey Points						
Dharamjaygarh Division						
Sr. No.	Point ID	Patch No.	UTM Coordinates		Geographical Coordinates	
			Easting (m)	Northing (m)	Longitude "E"	Latitude "N"
1	P1	Patch-1_1	725326.967110	2484348.280850	83°11' 22.436" E	22°27' 2.163" N
2	P2	Patch-1_1	725236.699306	2484228.492170	83°11' 19.219" E	22°26' 58.313" N
3	P3	Patch-1_1	725123.730831	2484133.273680	83°11' 15.221" E	22°26' 55.272" N
4	P4	Patch-1_1	724990.579250	2484064.211460	83°11' 10.530" E	22°26' 53.091" N
5	P5	Patch-1_1	724893.388227	2484016.232640	83°11' 7.108" E	22°26' 51.578" N
6	P6	Patch-1_1	724804.742968	2483972.214430	83°11' 3.986" E	22°26' 50.189" N
7	P7	Patch-1_2	721643.646753	2480568.461370	83°9' 11.760" E	22°25' 1.054" N
8	P8	Patch-1_2	721531.227517	2480469.757390	83°9' 7.780" E	22°24' 57.899" N
9	P9	Patch-1_2	721389.962449	2480419.878770	83°9' 2.818" E	22°24' 56.343" N
10	P10	Patch-1_2	721248.567915	2480369.820450	83°8' 57.850" E	22°24' 54.782" N
11	P11	Patch-1_2	721107.424745	2480319.053810	83°8' 52.891" E	22°24' 53.198" N
12	P12	Patch-1_2	720966.547820	2480267.542760	83°8' 47.941" E	22°24' 51.589" N
13	P13	Patch-1_2	720825.188283	2480217.379130	83°8' 42.975" E	22°24' 50.025" N
14	P14	Patch-1_2	720683.603337	2480167.848890	83°8' 38.001" E	22°24' 48.481" N
15	P15	Patch-1_2	720544.162865	2480112.867960	83°8' 33.100" E	22°24' 46.758" N
16	P16	Patch-1_2	720413.605131	2480039.098230	83°8' 28.499" E	22°24' 44.421" N

DGPS Survey Points						
Dharamjaygarh Division						
Sr. No.	Point ID	Patch No.	UTM Coordinates		Geographical Coordinates	
			Easting (m)	Northing (m)	Longitude "E"	Latitude "N"
17	P17	Patch-1_2	720283.516218	2479964.424040	83°8' 23.915" E	22°24' 42.055" N
18	P18	Patch-1_2	720153.107177	2479890.308690	83°8' 19.320" E	22°24' 39.706" N
19	P19	Patch-1_2	720022.457147	2479816.616820	83°8' 14.716" E	22°24' 37.372" N
20	P20	Patch-1_2	719891.445307	2479743.571070	83°8' 10.101" E	22°24' 35.058" N
21	P21	Patch-1_2	719761.916312	2479667.931800	83°8' 5.536" E	22°24' 32.660" N
22	P22	Patch-1_2	719631.541223	2479593.764190	83°8' 0.942" E	22°24' 30.310" N
23	P23	Patch-1_2	719501.138901	2479519.636330	83°7' 56.347" E	22°24' 27.961" N
24	P24	Patch-1_2	719371.081921	2479444.903120	83°7' 51.764" E	22°24' 25.592" N
25	P25	Patch-1_2	719241.341918	2479369.625680	83°7' 47.192" E	22°24' 23.205" N
26	P26	Patch-1_2	719126.714478	2479275.702290	83°7' 43.139" E	22°24' 20.205" N
27	P27	Patch-1_2	719035.198690	2479156.854710	83°7' 39.881" E	22°24' 16.385" N
28	P28	Patch-1_2	718944.188267	2479037.620840	83°7' 36.641" E	22°24' 12.552" N
29	P29	Patch-1_2	718852.220447	2478919.125940	83°7' 33.368" E	22°24' 8.743" N
30	P30	Patch-1_2	718761.695860	2478799.521410	83°7' 30.145" E	22°24' 4.897" N
31	P31	Patch-1_2	718671.632054	2478679.569370	83°7' 26.938" E	22°24' 1.040" N
32	P32	Patch-1_2	718580.624160	2478560.334740	83°7' 23.698" E	22°23' 57.207" N
33	P33	Patch-1_2	718489.928073	2478440.861380	83°7' 20.469" E	22°23' 53.365" N
34	P34	Patch-1_2	718398.314517	2478322.089390	83°7' 17.209" E	22°23' 49.547" N
35	P35	Patch-1_2	718310.349011	2478209.559680	83°7' 14.079" E	22°23' 45.930" N
36	P36	Patch-1_2	718278.160255	2478087.091950	83°7' 12.893" E	22°23' 41.965" N
37	P37	Patch-1_3	718286.900144	2477749.740030	83°7' 13.033" E	22°23' 30.997" N
38	P38	Patch-1_3	718292.582484	2477599.868390	83°7' 13.157" E	22°23' 26.123" N
39	P39	Patch-1_3	718297.236350	2477450.047380	83°7' 13.246" E	22°23' 21.252" N
40	P40	Patch-1_3	718252.875343	2477308.560640	83°7' 11.626" E	22°23' 16.674" N
41	P41	Patch-1_3	718209.211554	2477236.818240	83°7' 10.065" E	22°23' 14.362" N
42	P42	Patch-1_3	718169.384210	2477170.347160	83°7' 8.640" E	22°23' 12.220" N
43	P43	Patch-1_4	718132.157804	2477107.990950	83°7' 7.308" E	22°23' 10.210" N
44	P44	Patch-1_4	718115.516122	2477080.659140	83°7' 6.713" E	22°23' 9.330" N
45	P45	Patch-1_5	718126.378290	2474828.096220	83°7' 5.984" E	22°21' 56.115" N
46	P46	Patch-1_5	718119.747280	2474801.928590	83°7' 5.740" E	22°21' 55.268" N
47	P47	Patch-1_5	718113.285819	2474775.715940	83°7' 5.501" E	22°21' 54.419" N
48	P48	Patch-1_6	718099.642935	2474727.223600	83°7' 5.001" E	22°21' 52.849" N
49	P49	Patch-1_6	718067.925823	2474581.429140	83°7' 3.821" E	22°21' 48.125" N
50	P50	Patch-1_6	718062.112609	2474431.545800	83°7' 3.544" E	22°21' 43.256" N
51	P51	Patch-1_6	718077.593358	2474285.542130	83°7' 4.013" E	22°21' 38.504" N
52	P52	Patch-1_6	718171.005723	2474168.262540	83°7' 7.219" E	22°21' 34.650" N

DGPS Survey Points						
Dharamjaygarh Division						
Sr. No.	Point ID	Patch No.	UTM Coordinates		Geographical Coordinates	
			Easting (m)	Northing (m)	Longitude "E"	Latitude "N"
53	P53	Patch-1_6	718187.523704	2474023.422530	83°7' 7.725" E	22°21' 29.935" N
54	P54	Patch-1_6	718168.330800	2473874.663100	83°7' 6.981" E	22°21' 25.109" N
55	P55	Patch-1_6	718132.175849	2473730.146980	83°7' 5.647" E	22°21' 20.428" N
56	P56	Patch-1_6	718070.138412	2473593.577540	83°7' 3.412" E	22°21' 16.018" N
57	P57	Patch-1_6	718007.570490	2473457.250120	83°7' 1.159" E	22°21' 11.616" N
58	P58	Patch-1_6	717974.502272	2473355.627120	83°6' 59.954" E	22°21' 8.328" N
59	P59	Patch-1_6	717969.419855	2473251.952660	83°6' 59.725" E	22°21' 4.961" N
60	P60	Patch-1_7	717139.437932	2470953.210020	83°6' 29.602" E	22°19' 50.628" N
61	P61	Patch-1_7	717088.665793	2470812.093330	83°6' 27.760" E	22°19' 46.065" N
62	P62	Patch-1_7	716985.256635	2470747.221420	83°6' 24.115" E	22°19' 44.003" N
63	P63	Patch-1_7	716940.829028	2470658.535010	83°6' 22.520" E	22°19' 41.141" N
64	P64	Patch-1_8	716890.200771	2470549.008120	83°6' 20.698" E	22°19' 37.604" N
65	P65	Patch-1_8	716827.561871	2470412.721610	83°6' 18.443" E	22°19' 33.203" N
66	P66	Patch-1_8	716764.108232	2470276.811360	83°6' 16.160" E	22°19' 28.815" N
67	P67	Patch-1_8	716714.098325	2470173.066500	83°6' 14.363" E	22°19' 25.466" N
68	P68	Patch-1_9	716671.531866	2470082.757360	83°6' 12.832" E	22°19' 22.550" N
69	P69	Patch-1_9	716607.636323	2469947.046990	83°6' 10.534" E	22°19' 18.168" N
70	P70	Patch-1_9	716543.679966	2469811.366750	83°6' 8.234" E	22°19' 13.787" N
71	P71	Patch-1_9	716480.661984	2469675.247370	83°6' 5.966" E	22°19' 9.392" N
72	P72	Patch-1_9	716416.772866	2469539.540980	83°6' 3.668" E	22°19' 5.010" N
73	P73	Patch-1_9	716347.081886	2469407.604010	83°6' 1.169" E	22°19' 0.754" N
74	P74	Patch-1_9	716249.898818	2469293.413610	83°5' 57.719" E	22°18' 57.086" N
75	P75	Patch-1_9	716167.056546	2469168.433910	83°5' 54.765" E	22°18' 53.062" N
76	P76	Patch-1_9	716045.758792	2469080.917910	83°5' 50.485" E	22°18' 50.272" N
77	P77	Patch-1_9	715920.310029	2468998.694410	83°5' 46.063" E	22°18' 47.657" N
78	P78	Patch-1_9	715778.621616	2468951.173730	83°5' 41.091" E	22°18' 46.176" N
79	P79	Patch-1_9	715700.786189	2468931.389130	83°5' 38.363" E	22°18' 45.568" N
80	P80	Patch-1_9	715625.547800	2468912.165760	83°5' 35.725" E	22°18' 44.977" N
81	P1	Patch-2_1	715998.336882	2466325.334400	83°5' 47.492" E	22°17' 20.734" N
82	P2	Patch-2_1	716042.091161	2466181.858270	83°5' 48.950" E	22°17' 16.051" N
83	P3	Patch-2_1	716085.865419	2466038.387970	83°5' 50.409" E	22°17' 11.368" N
84	P4	Patch-2_1	716129.585786	2465894.902600	83°5' 51.867" E	22°17' 6.685" N
85	P5	Patch-2_1	716173.898484	2465751.597650	83°5' 53.345" E	22°17' 2.007" N
86	P6	Patch-2_1	716217.427397	2465608.052630	83°5' 54.795" E	22°16' 57.322" N
87	P7	Patch-2_1	716261.018809	2465464.527360	83°5' 56.248" E	22°16' 52.637" N
88	P8	Patch-2_1	716304.941475	2465321.106560	83°5' 57.712" E	22°16' 47.956" N

DGPS Survey Points						
Dharamjaygarh Division						
Sr. No.	Point ID	Patch No.	UTM Coordinates		Geographical Coordinates	
			Easting (m)	Northing (m)	Longitude "E"	Latitude "N"
89	P9	Patch-2_1	716349.514357	2465177.887390	83°5' 59.199" E	22°16' 43.281" N
90	P10	Patch-2_1	716393.707277	2465034.549540	83°6' 0.673" E	22°16' 38.603" N
91	P11	Patch-2_1	716437.118787	2464890.971850	83°6' 2.119" E	22°16' 33.917" N
92	P12	Patch-2_1	716457.409382	2464819.984650	83°6' 2.793" E	22°16' 31.600" N
93	P13	Patch-2_1	716480.999832	2464742.664790	83°6' 3.579" E	22°16' 29.077" N
94	P14	Patch-2_2	716570.124571	2464283.810870	83°6' 6.469" E	22°16' 14.123" N
95	P15	Patch-2_2	716557.915300	2464153.068860	83°6' 5.979" E	22°16' 9.879" N
96	P16	Patch-2_2	716551.660431	2464026.186410	83°6' 5.699" E	22°16' 5.758" N
97	P17	Patch-2_3	716622.805401	2462180.494360	83°6' 7.287" E	22°15' 5.738" N
98	P18	Patch-2_3	716629.586991	2462056.444640	83°6' 7.464" E	22°15' 1.703" N
99	P19	Patch-2_3	716635.072202	2461931.908690	83°6' 7.595" E	22°14' 57.653" N
100	P20	Patch-2_3	716638.609361	2461839.656130	83°6' 7.674" E	22°14' 54.653" N
101	P21	Patch-2_3	716642.439650	2461759.924000	83°6' 7.769" E	22°14' 52.060" N
102	P22	Patch-2_3	716633.131573	2461663.609180	83°6' 7.397" E	22°14' 48.934" N
103	P23	Patch-2_3	716617.747820	2461574.475220	83°6' 6.817" E	22°14' 46.044" N
104	P24	Patch-2_3	716606.356445	2461511.735660	83°6' 6.388" E	22°14' 44.010" N
105	P25	Patch-2_3	716593.941631	2461441.649200	83°6' 5.921" E	22°14' 41.738" N
106	P26	Patch-2_4	716515.134201	2460983.578630	83°6' 2.947" E	22°14' 26.885" N
107	P27	Patch-2_4	716487.010738	2460836.246900	83°6' 1.894" E	22°14' 22.110" N
108	P28	Patch-2_4	716468.641419	2460687.822740	83°6' 1.181" E	22°14' 17.294" N
109	P29	Patch-2_4	716488.336854	2460539.172410	83°6' 1.797" E	22°14' 12.454" N
110	P30	Patch-2_4	716509.984835	2460390.743430	83°6' 2.480" E	22°14' 7.620" N
111	P31	Patch-2_4	716532.011841	2460242.370550	83°6' 3.177" E	22°14' 2.787" N
112	P32	Patch-2_4	716552.051125	2460093.717820	83°6' 3.805" E	22°13' 57.947" N
113	P33	Patch-2_4	716571.598929	2459944.997390	83°6' 4.415" E	22°13' 53.104" N
114	P34	Patch-2_4	716592.723358	2459796.494220	83°6' 5.081" E	22°13' 48.268" N
115	P35	Patch-2_4	716614.803991	2459648.129460	83°6' 5.780" E	22°13' 43.436" N
116	P36	Patch-2_4	716637.596036	2459499.927900	83°6' 6.504" E	22°13' 38.609" N
117	P37	Patch-2_4	716590.589704	2459361.111470	83°6' 4.795" E	22°13' 34.119" N
118	P38	Patch-2_4	716510.556000	2459234.251180	83°6' 1.940" E	22°13' 30.032" N
119	P39	Patch-2_4	716430.996808	2459107.089520	83°5' 59.101" E	22°13' 25.935" N
120	P40	Patch-2_4	716382.575958	2458968.797840	83°5' 57.344" E	22°13' 21.462" N
121	P41	Patch-2_4	716399.629197	2458819.789330	83°5' 57.867" E	22°13' 16.611" N
122	P42	Patch-2_4	716423.571700	2458671.730500	83°5' 58.631" E	22°13' 11.788" N
123	P43	Patch-2_4	716447.992560	2458523.733470	83°5' 59.412" E	22°13' 6.967" N
124	P44	Patch-2_4	716468.795755	2458375.219900	83°6' 0.066" E	22°13' 2.131" N
125	P45	Patch-2_4	716504.527419	2458229.891490	83°6' 1.243" E	22°12' 57.391" N

DGPS Survey Points						
Dharamjaygarh Division						
Sr. No.	Point ID	Patch No.	UTM Coordinates		Geographical Coordinates	
			Easting (m)	Northing (m)	Longitude "E"	Latitude "N"
126	P46	Patch-2_4	716538.317056	2458122.673080	83°6' 2.371" E	22°12' 53.891" N
127	P47	Patch-2_4	716575.972372	2458028.018220	83°6' 3.639" E	22°12' 50.798" N
128	P48	Patch-2_5	717808.079296	2452990.652280	83°6' 44.197" E	22°10' 6.519" N
129	P49	Patch-2_5	717856.523130	2452849.144160	83°6' 45.819" E	22°10' 1.898" N
130	P50	Patch-2_5	717946.729969	2452729.507580	83°6' 48.909" E	22°9' 57.968" N
131	P51	Patch-2_5	718031.434387	2452606.093140	83°6' 51.804" E	22°9' 53.919" N
132	P52	Patch-2_5	718087.842249	2452467.113990	83°6' 53.705" E	22°9' 49.376" N
133	P53	Patch-2_5	718145.819454	2452328.776020	83°6' 55.661" E	22°9' 44.854" N
134	P54	Patch-2_5	718187.552406	2452185.224380	83°6' 57.047" E	22°9' 40.169" N
135	P55	Patch-2_5	718208.529548	2452036.707810	83°6' 57.707" E	22°9' 35.333" N
136	P56	Patch-2_5	718229.759238	2451888.220550	83°6' 58.375" E	22°9' 30.497" N
137	P57	Patch-2_5	718251.683248	2451739.832700	83°6' 59.068" E	22°9' 25.664" N
138	P58	Patch-2_5	718274.780671	2451591.623780	83°6' 59.802" E	22°9' 20.837" N
139	P59	Patch-2_5	718298.346796	2451443.486680	83°7' 0.552" E	22°9' 16.012" N
140	P60	Patch-2_5	718321.384267	2451295.269710	83°7' 1.284" E	22°9' 11.184" N
141	P61	Patch-2_5	718336.068441	2451146.228370	83°7' 1.724" E	22°9' 6.333" N
142	P62	Patch-2_5	718329.817177	2451031.748220	83°7' 1.450" E	22°9' 2.615" N
143	P63	Patch-2_5	718319.766170	2450897.840640	83°7' 1.034" E	22°8' 58.268" N
144	P64	Patch-2_6	719445.820608	2444194.646970	83°7' 37.051" E	22°5' 19.893" N
145	P65	Patch-2_6	719405.799965	2444050.086100	83°7' 35.585" E	22°5' 15.212" N
146	P66	Patch-2_6	719375.776320	2443944.646970	83°7' 34.486" E	22°5' 11.799" N
147	P67	Patch-2_6	719346.098962	2443839.734750	83°7' 33.400" E	22°5' 8.403" N
148	P1	Patch-3_1	728366.754784	2489365.082890	83°13' 11.313" E	22°29' 43.747" N
149	P2	Patch-3_1	728390.877761	2489574.619720	83°13' 12.265" E	22°29' 50.545" N
150	P3	Patch-3_2	728552.062637	2491637.024160	83°13' 18.973" E	22°30' 57.491" N
151	P4	Patch-3_2	728520.136953	2491898.864010	83°13' 17.993" E	22°31' 6.016" N
152	P5	Patch-3_3	728499.163309	2492043.025050	83°13' 17.334" E	22°31' 10.711" N
153	P6	Patch-3_3	728475.916073	2492138.864970	83°13' 16.571" E	22°31' 13.837" N
154	P7	Patch-3_4	729831.029976	2494173.961050	83°14' 5.036" E	22°32' 19.316" N
155	P8	Patch-3_4	730035.260637	2494405.219600	83°14' 12.302" E	22°32' 26.732" N
156	P9	Patch-3_4	730220.736610	2494597.809280	83°14' 18.892" E	22°32' 32.900" N
157	P10	Patch-3_5	731161.919551	2496650.351210	83°14' 52.899" E	22°33' 39.143" N
158	P11	Patch-3_5	730925.173221	2496753.213080	83°14' 44.670" E	22°33' 42.601" N

DGPS Survey Points						
Dharamjaygarh Division						
Sr. No.	Point ID	Patch No.	UTM Coordinates		Geographical Coordinates	
			Easting (m)	Northing (m)	Longitude "E"	Latitude "N"
159	P12	Patch-3_5	730764.206931	2497298.863080	83°14' 39.325" E	22°34' 0.412" N
160	P13	Patch-3_5	730873.021015	2497623.915200	83°14' 43.304" E	22°34' 10.922" N
161	P14	Patch-3_6	731821.939193	2500413.358950	83°15' 17.983" E	22°35' 41.105" N
162	P15	Patch-3_6	731857.856631	2500566.175990	83°15' 19.321" E	22°35' 46.053" N
163	P16	Patch-3_7	732172.116154	2502052.843780	83°15' 31.108" E	22°36' 34.210" N
164	P17	Patch-3_7	732313.433531	2502432.948500	83°15' 36.256" E	22°36' 46.493" N
165	P18	Patch-3_7	732391.592369	2502837.219970	83°15' 39.207" E	22°36' 59.592" N
166	P19	Patch-3_8	733513.543003	2505641.255850	83°16' 19.976" E	22°38' 30.157" N
167	P20	Patch-3_8	733194.162928	2505921.436500	83°16' 8.945" E	22°38' 39.421" N
168	P21	Patch-3_8	733415.159182	2505901.324980	83°16' 16.671" E	22°38' 38.658" N
169	P22	Patch-3_8	733615.782289	2505834.264170	83°16' 23.659" E	22°38' 36.379" N
170	P23	Patch-3_8	733829.121898	2505734.858440	83°16' 31.075" E	22°38' 33.042" N
171	P24	Patch-3_8	733895.427392	2505826.769250	83°16' 33.445" E	22°38' 35.996" N
172	P25	Patch-3_8	733771.576742	2506027.020190	83°16' 29.216" E	22°38' 42.565" N
173	P26	Patch-3_8	733894.607155	2506076.435390	83°16' 33.550" E	22°38' 44.110" N
174	P27	Patch-3_8	734182.273101	2505959.799820	83°16' 43.559" E	22°38' 40.176" N
175	P28	Patch-3_8	734496.397711	2505961.136420	83°16' 54.557" E	22°38' 40.063" N
176	P29	Patch-3_9	737615.602623	2507097.083640	83°18' 44.375" E	22°39' 15.411" N
177	P30	Patch-3_9	737706.362758	2507139.930880	83°18' 47.576" E	22°39' 16.757" N
178	P31	Patch-3_10	742122.188867	2508053.024010	83°21' 22.683" E	22°39' 44.174" N
179	P32	Patch-3_10	742275.569509	2508008.481540	83°21' 28.028" E	22°39' 42.648" N
180	P1	Patch-4_1	731741.576604	2484655.291660	83°15' 6.863" E	22°27' 9.053" N
181	P2	Patch-4_1	732136.205623	2484488.212180	83°15' 20.572" E	22°27' 3.431" N
182	P3	Patch-4_1	732372.779563	2484483.049090	83°15' 28.841" E	22°27' 3.147" N
183	P4	Patch-4_1	732598.174236	2484374.923500	83°15' 36.664" E	22°26' 59.523" N
184	P5	Patch-4_1	732806.980159	2484240.307920	83°15' 43.893" E	22°26' 55.046" N
185	P6	Patch-4_1	733035.148892	2484241.251000	83°15' 51.870" E	22°26' 54.965" N
186	P7	Patch-4_1	733219.405131	2484401.268910	83°15' 58.396" E	22°27' 0.075" N
187	P8	Patch-4_1	733455.030591	2484484.031780	83°16' 6.678" E	22°27' 2.648" N
188	P9	Patch-4_1	733525.337201	2484684.569950	83°16' 9.242" E	22°27' 9.131" N
189	P10	Patch-4_1	733766.369762	2484666.720800	83°16' 17.659" E	22°27' 8.432" N
190	P11	Patch-4_1	734033.217152	2484702.301240	83°16' 27.007" E	22°27' 9.457" N
191	P12	Patch-4_2	735122.285874	2484731.884970	83°17' 5.098" E	22°27' 9.880" N

DGPS Survey Points						
Dharamjaygarh Division						
Sr. No.	Point ID	Patch No.	UTM Coordinates		Geographical Coordinates	
			Easting (m)	Northing (m)	Longitude "E"	Latitude "N"
192	P13	Patch-4_2	735396.503252	2484729.465590	83°17' 14.683" E	22°27' 9.666" N
193	P14	Patch-4_2	735578.571059	2484781.863600	83°17' 21.076" E	22°27' 11.278" N
194	P15	Patch-4_3	736524.328101	2485221.997310	83°17' 54.377" E	22°27' 25.111" N
195	P16	Patch-4_3	736672.793531	2485196.574690	83°17' 59.554" E	22°27' 24.211" N
196	P17	Patch-4_4	738562.035127	2485282.208070	83°19' 5.650" E	22°27' 26.048" N
197	P18	Patch-4_4	738862.258060	2485424.538630	83°19' 16.223" E	22°27' 30.522" N
198	P19	Patch-4_4	739189.253756	2485411.414700	83°19' 27.648" E	22°27' 29.931" N
199	P20	Patch-4_4	739490.803809	2485329.373220	83°19' 38.147" E	22°27' 27.113" N
200	P21	Patch-4_4	739836.414434	2485368.769780	83°19' 50.251" E	22°27' 28.219" N
201	P22	Patch-4_5	740307.210940	2485820.930820	83°20' 6.957" E	22°27' 42.674" N
202	P23	Patch-4_5	740603.328723	2486005.755990	83°20' 17.410" E	22°27' 48.530" N
203	P24	Patch-4_5	740834.171123	2486090.677050	83°20' 25.527" E	22°27' 51.172" N
204	P25	Patch-4_5	741081.382365	2486071.862900	83°20' 34.160" E	22°27' 50.435" N
205	P26	Patch-4_5	741331.208921	2486080.767450	83°20' 42.900" E	22°27' 50.598" N
206	P27	Patch-4_5	741560.407017	2486153.493940	83°20' 50.953" E	22°27' 52.844" N
207	P28	Patch-4_5	741722.260540	2486337.379480	83°20' 56.712" E	22°27' 58.737" N
208	P29	Patch-4_5	741789.661855	2486577.403410	83°20' 59.200" E	22°28' 6.502" N
209	P30	Patch-4_5	741939.971959	2486764.550590	83°21' 4.558" E	22°28' 12.507" N
210	P31	Patch-4_5	742384.775685	2486847.501390	83°21' 20.156" E	22°28' 14.976" N
211	P32	Patch-4_5	742668.847297	2486895.383900	83°21' 30.114" E	22°28' 16.386" N
212	P33	Patch-4_6	743396.617068	2487419.960360	83°21' 55.849" E	22°28' 33.059" N
213	P34	Patch-4_6	743736.529753	2487706.926450	83°22' 7.893" E	22°28' 42.210" N
214	P35	Patch-4_6	743979.201333	2487751.291850	83°22' 16.403" E	22°28' 43.527" N
215	P36	Patch-4_6	744203.674545	2487859.910160	83°22' 24.312" E	22°28' 46.941" N
216	P37	Patch-4_6	744432.053027	2487959.916340	83°22' 32.352" E	22°28' 50.073" N
217	P38	Patch-4_6	744808.648918	2487815.651390	83°22' 45.440" E	22°28' 45.190" N
218	P39	Patch-4_6	745068.088071	2487999.665140	83°22' 54.614" E	22°28' 51.036" N
219	P40	Patch-4_7	746600.241834	2489254.470900	83°23' 48.888" E	22°29' 31.015" N
220	P41	Patch-4_7	746792.921704	2489488.106950	83°23' 55.757" E	22°29' 38.506" N
221	P42	Patch-4_7	746917.222443	2489702.603400	83°24' 0.224" E	22°29' 45.412" N
222	P43	Patch-4_7	747104.154644	2490051.851970	83°24' 6.957" E	22°29' 56.662" N
223	P44	Patch-4_7	747117.592003	2490391.919480	83°24' 7.617" E	22°30' 7.706" N
224	P45	Patch-4_8	747045.887180	2490860.714640	83°24' 5.373" E	22°30' 22.976" N

DGPS Survey Points						
Dharamjaygarh Division						
Sr. No.	Point ID	Patch No.	UTM Coordinates		Geographical Coordinates	
			Easting (m)	Northing (m)	Longitude "E"	Latitude "N"
225	P46	Patch-4_8	747105.289597	2491242.943240	83°24' 7.665" E	22°30' 35.365" N
226	P47	Patch-4_8	747304.919253	2491637.695390	83°24' 14.868" E	22°30' 48.088" N
227	P48	Patch-4_9	749137.337220	2492313.414750	83°25' 19.336" E	22°31' 9.083" N
228	P49	Patch-4_9	749189.133472	2492315.941690	83°25' 21.149" E	22°31' 9.138" N
229	P50	Patch-4_10	749222.714460	2492319.071740	83°25' 22.325" E	22°31' 9.222" N
230	P51	Patch-4_10	749310.045524	2492334.871890	83°25' 25.389" E	22°31' 9.689" N
231	P52	Patch-4_11	749382.039111	2492362.355070	83°25' 27.922" E	22°31' 10.544" N
232	P53	Patch-4_11	749484.105641	2492411.152360	83°25' 31.519" E	22°31' 12.076" N
233	P1	Patch-5_1	757671.087753	2484854.870740	83°30' 13.424" E	22°27' 2.177" N
234	P2	Patch-5_1	757485.167665	2484723.414230	83°30' 6.848" E	22°26' 58.006" N
235	P3	Patch-5_1	757358.775676	2484508.677650	83°30' 2.305" E	22°26' 51.098" N
236	P4	Patch-5_2	757785.173261	2481737.003900	83°30' 15.593" E	22°25' 20.811" N
237	P5	Patch-5_2	757931.357824	2481615.399020	83°30' 20.630" E	22°25' 16.780" N
238	P6	Patch-5_3	757985.187207	2481544.616580	83°30' 22.470" E	22°25' 14.451" N
239	P7	Patch-5_3	758010.911595	2481482.383760	83°30' 23.333" E	22°25' 12.415" N
240	P8	Patch-5_4	758140.712669	2481276.886740	83°30' 27.749" E	22°25' 5.668" N
241	P9	Patch-5_4	758279.118429	2481178.441150	83°30' 32.528" E	22°25' 2.394" N
242	P10	Patch-5_4	758460.326156	2481166.836610	83°30' 38.854" E	22°25' 1.919" N
243	P11	Patch-5_5	760183.805496	2481406.975230	83°31' 39.224" E	22°25' 8.781" N
244	P12	Patch-5_5	760457.170100	2481410.575600	83°31' 48.779" E	22°25' 8.749" N
245	P13	Patch-5_5	760703.957969	2481416.051420	83°31' 57.407" E	22°25' 8.792" N
246	P14	Patch-5_5	760941.414456	2481348.128960	83°32' 5.665" E	22°25' 6.454" N
247	P15	Patch-5_5	761170.465373	2481361.527130	83°32' 13.677" E	22°25' 6.764" N
248	P16	Patch-5_5	761412.500939	2481351.589810	83°32' 22.129" E	22°25' 6.308" N
249	P17	Patch-5_5	761644.803050	2481406.192130	83°32' 30.280" E	22°25' 7.955" N
250	P18	Patch-5_5	761893.074729	2481377.044450	83°32' 38.938" E	22°25' 6.871" N
251	P19	Patch-5_5	762126.509640	2481294.969450	83°32' 47.047" E	22°25' 4.076" N
252	P20	Patch-5_5	762489.628755	2481047.378270	83°32' 59.590" E	22°24' 55.831" N
253	P21	Patch-5_6	762940.633602	2480571.499350	83°33' 15.067" E	22°24' 40.121" N
254	P22	Patch-5_6	763041.207992	2480498.741740	83°33' 18.538" E	22°24' 37.701" N

DGPS Survey Points						
Dharamjaygarh Division						
Sr. No.	Point ID	Patch No.	UTM Coordinates		Geographical Coordinates	
			Easting (m)	Northing (m)	Longitude "E"	Latitude "N"
254	P22	Patch-5_6	763041.207992	2480498.741740	83°33' 18.538" E	22°24' 37.701" N
255	P23	Patch-5_7	769190.490880	2477240.079190	83°36' 51.428" E	22°22' 48.392" N
256	P24		769470.675222	2477079.473680	83°37' 1.118" E	22°22' 43.016" N
257	P25		769700.037159	2476981.576310	83°37' 9.071" E	22°22' 39.706" N
258	P26		769944.224468	2476928.327520	83°37' 17.569" E	22°22' 37.838" N
259	P27		770187.454720	2476870.947330	83°37' 26.031" E	22°22' 35.836" N
260	P28		770436.634030	2476876.612400	83°37' 34.739" E	22°22' 35.878" N
261	P29		770685.866212	2476876.305470	83°37' 43.445" E	22°22' 35.727" N
262	P30		770863.146692	2476711.204970	83°37' 49.537" E	22°22' 30.262" N
263	P31		770922.292914	2476468.921910	83°37' 51.455" E	22°22' 22.357" N
264	P32		770999.739186	2476271.154560	83°37' 54.039" E	22°22' 15.888" N
265	P33		771238.725641	2476285.308180	83°38' 2.396" E	22°22' 16.212" N
266	P34		771440.516383	2476405.678620	83°38' 9.519" E	22°22' 20.008" N
267	P35		771872.357864	2476390.028860	83°38' 24.594" E	22°22' 19.253" N

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धरमजयगढ़

वन परिक्षेत्र अधिकारी
परिक्षेत्र कोड



वन परिक्षेत्राधिकारी
लैलुंगा

वन परिक्षेत्र अधिकारी
कापु(सा.)

वन परिक्षेत्र अधिकारी
परिक्षेत्र छाल
वन मंडल-धरमजयगढ़

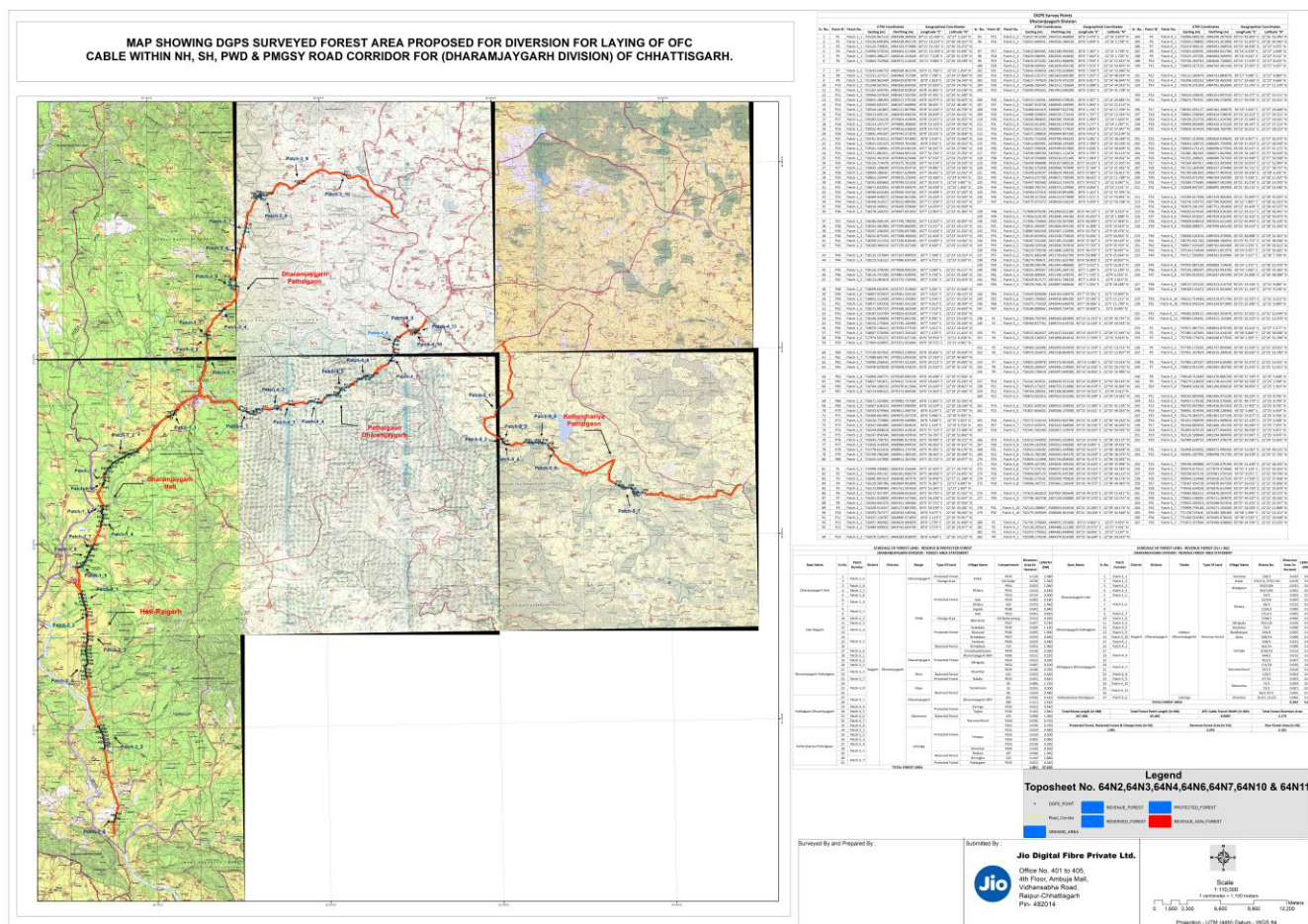
वन परिक्षेत्राधिकारी
बाकारुमा परिक्षेत्र

उप वन मण्डलाधिकारी
लैलुंगा

उप वन मण्डलाधिकारी
धरमजयगढ़ उप वन मण्डल

वन मण्डलाधिकारी
धरमजयगढ़ वन मण्डल
जिला रायगढ़ (छ.प्र.)

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



5.4 DGPS Maps of the Proposed Route (Annexure-4):

