

CHHATTISGARH BHARATNET PHASE-II PROJECT

LIDAR/DGPS SURVEY REPORT FOR UDANTI SITANADI TIGER RESERVE, GARIYABAND FOR DIVERSION OF PROPOSED OFC ROUTES

Forest Division	: UDANTI - SITANADI TIGER RESERVE, GARIYABAND (C.G.)
Reserve Forest Land	: 4.193 HA
Protected Forest Land	: 4.772 HA.
Total Proposed Diversion Area	: 8.965 HA.
Block	: MAINPUR AND NAGRI
District	: GARIYABAND AND DHAMTARI

Applicant -



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



Submitted By -



TATA PROJECTS

Tata Projects Limited, Raipur (Chhattisgarh)



[Signature]
Deputy Director
Udanti-Sitanadi Tiger Reserve
Gariyaband (C.G.)

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1. Introduction and Background

1.1. Background

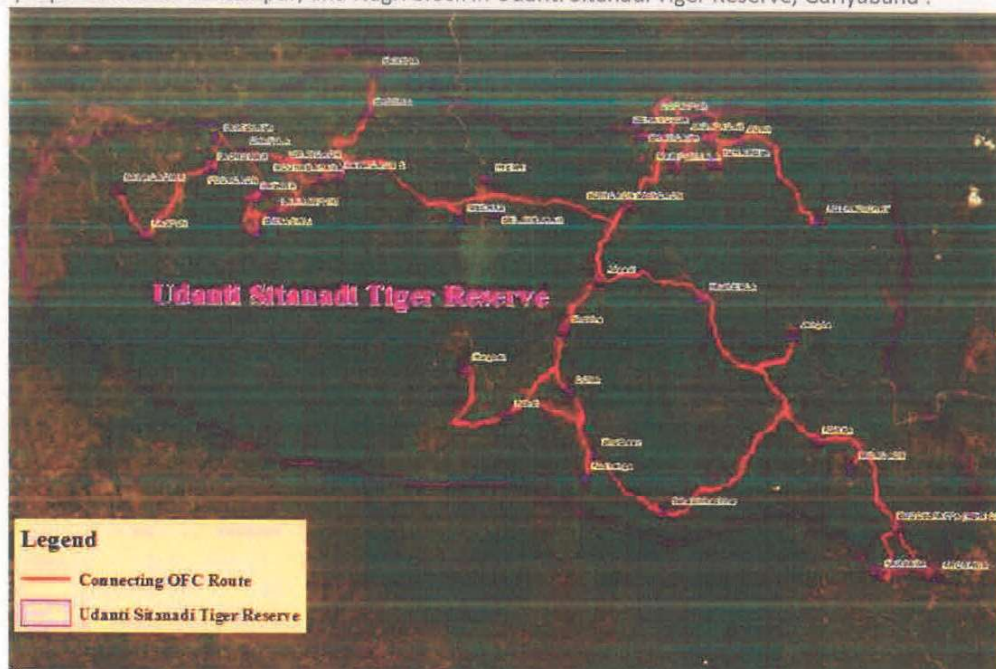
The Government of Chhattisgarh intends to setup an Optical Fibre Cable Network from the Block Head Quarters to Gram Panchayats to provide high speed broadband connectivity by connecting the 85 Blocks, 5987 Gram Panchayats across the State. The proposed network architecture for BharatNet Phase-II project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



OFC Cable Proposed Routes in Mainpur and Nagri block in Udanti Sitanadi Tiger Reserve, Gariyaband

1.3. Location

The proposed OFC Cable route in Udanti Sitanadi Tiger Reserve Gariyaband Forest (The OFC route Mainpur Block and Nagri Block; District: Gariyaband and Dhamtari). The total OFC route length is 305.459 km. in Mainpur Block and 97.656 km. in Nagri Block, hence Total route length is 403.115 km. The survey site passes through forest ranges Indagaon, Kulhadighat, North udanti, South udanti, Tourenga, Arsihar, Risgaon, and Sitanadi of Udanti Sitanadi Tiger Reserve Gariyaband. The OFC Cable route is covered under Survey of India Toposheets 64 H15, 64 H16, 64 L03, 64 L04, 64 L07 and 64 L08 on RF 1:50000.

1.4. Objective

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

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

2. Scope of Work

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

3. Deliverables

The deliverables envisaged for the assignment are described below -

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

4. Technical Approach

4.1. GCP Establishment for LiDAR (DGPS) Survey:

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

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).



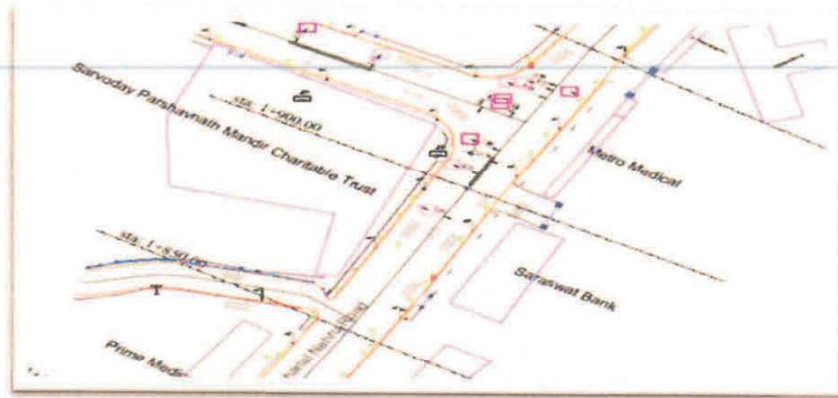
Mobile LiDAR Van

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.



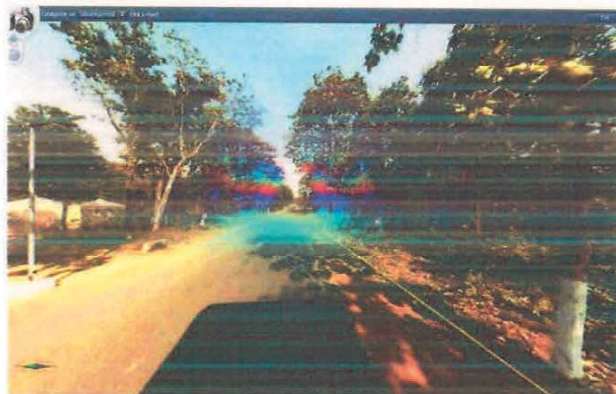
Feature Extraction on LiDAR



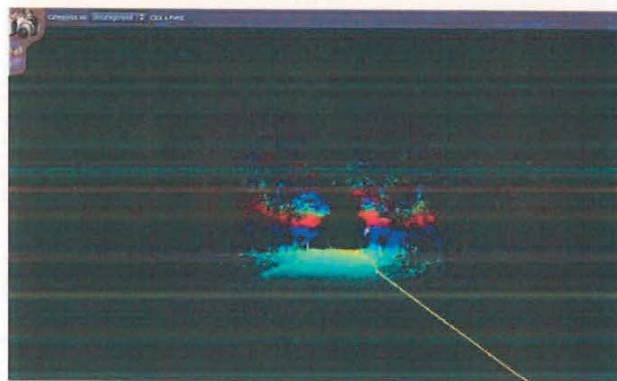
Final DRS / GIS Map

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)

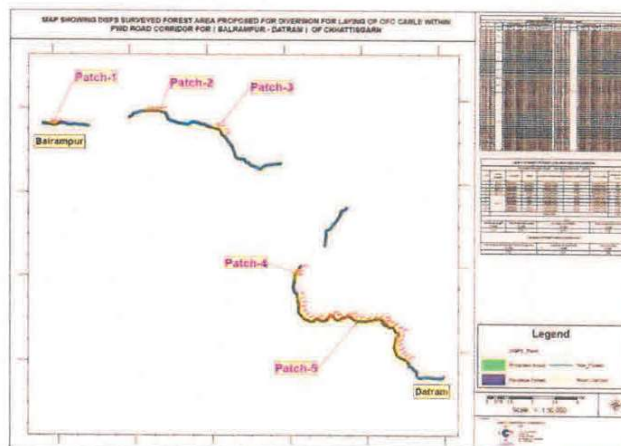


Proposed OFC Line on LiDAR Data only

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)



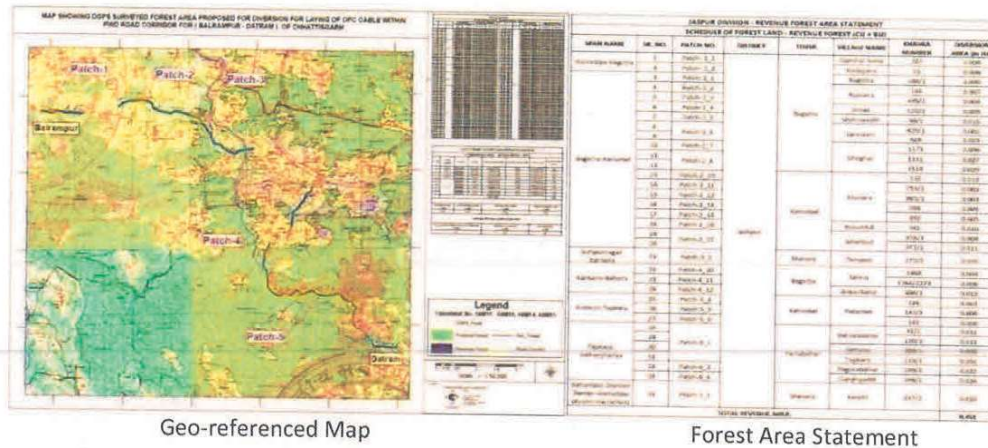
Different Layers such as Polygon of Reserved Forest /Protected Forest /Orange Area Patch, Centerline of Proposed OFC Trench, Non-Forest Trench line, Polygons showing Revenue Forest patches etc. are to be created using the Lidar based GDPS Observation, Geo-referenced maps and the information provided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



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4.7. Generation of Map and Survey Reports for Forest Diversion

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



5. DGPS Survey Results

The total OFC route length is approx. 403.115 km. Mainpur and Nagri block of Gariyaband and Dhamtari District. Out of this 211.345 km. OFC route length is passing through non-forest Land and 191.770 km. OFC route length is passing through Forest Patches hence the proposed forest area for diversion is 9.589 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)

Applied Forest Area Statement – Udanti-Sitanadi Tiger Reserve, Gariyaband						
Total Route Length (In Km.)	Length of Non Forest Land (In km)	Width of Non Forest Land (In km)	Area of Non-Forest Land (In Ha.)	Length of Forest Land (in km.)	Width of Forest Land (in km.)	Area of Proposed Forest Land (in Ha.)
403.115	223.815	0.0005	11.191	179.300	0.0005	8.965

Udanti-Sitanadi Tiger Reserve, Gariyaband : Applied Reserve Forest				
Forest Range	No of Comp..	Length (m.)	Width (m.)	Area (m.)
Arsikanhar	20	28203.206	0.5	1.411
Indagaon	8	20105.377	0.5	1.006
Risgaon	3	2881.766	0.5	0.144
Sitanadi	6	8857.084	0.5	0.443
South Udanti	11	23771.397	0.5	1.189
Total Reserve Forest	48	83818.83	0.5	4.193
Udanti-Sitanadi Tiger Reserve, Gariyaband : Applied Protected Forest				
Forest Range	No of Comp..	Length (m.)	Width (m.)	Area (m.)
Indagaon	1	1161.462	0.5	0.057
Kulhadighat	3	6634.365	0.5	0.332
North UYdanti	7	27167.086	0.5	1.358
South Udanti	4	13639.329	0.5	0.682
Tourenge	24	46879.299	0.5	2.343
Total Protected Forest	39	95481.541	0.5	4.772
Grand total	87	179300.371	0.5	8.965

Deputy Director
Udanti-Sitanadi Tiger Reserve
Gariyaband (C.G.)

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Chhattisgarh BharatNet Phase-II Project

Applied Forest Area Statement – Udanti-Sitanadi Tiger Reserve, Gariyaband,									
Sl. No.	Patch	Forest Division	Forest Range	Village Name	Type	Comp. No.	Length (in m.)	Width (in m.)	Area (In Ha.)
1	1	USTR	Indagaon	Indagaon	PF	P1229	1161.462	0.5	0.057
2	3	USTR	South Udanti	Nagesh	PF	P38	3653.221	0.5	0.182
3	4	USTR	South Udanti	Nagesh	PF	P39	4030.876	0.5	0.203
4	4	USTR	South Udanti	Karlajhar	PF	P43	5181.319	0.5	0.258
5	4	USTR	South Udanti	Karlajhar	PF	P44	773.913	0.5	0.039
6	6	USTR	Tourenge	Bhutbeda	PF	P1177	3371.974	0.5	0.168
7	6	USTR	Tourenge	Bhutbeda	PF	P1178	1896.539	0.5	0.094
8	7	USTR	Tourenge	Bhutbeda	PF	P1133	2219.619	0.5	0.111
9	7	USTR	Tourenge	Bhutbda	PF	P1175	3330.062	0.5	0.167
10	8	USTR	Tourenge	Chipri	PF	P1144	956.128	0.5	0.048
11	9	USTR	Tourenge	Kokdi	PF	P1142	1672.059	0.5	0.084
12	9	USTR	Tourenge	Kokdi	PF	P1171	1037.063	0.5	0.051
13	10	USTR	Tourenge	Gona	PF	P1122	1510.322	0.5	0.075
14	10	USTR	Tourenge	Gona	PF	P1137	1345.135	0.5	0.066
15	10	USTR	Tourenge	Gona	PF	P1138	1188.508	0.5	0.060
16	10	USTR	Tourenge	Kokdi	PF	P1139	2711.216	0.5	0.135
17	10	USTR	Tourenge	Kokdi	PF	P1141	1053.866	0.5	0.053
18	10	USTR	Tourenge	Kokdi	PF	P1173	2114.988	0.5	0.106
19	10	USTR	Tourenge	Kokdi	PF	P1174	1612.734	0.5	0.081
20	11	USTR	Tourenge	Gona	PF	P1134	1516.333	0.5	0.076
21	12	USTR	Tourenge	Shobha	PF	P1123	1251.925	0.5	0.062
22	13	USTR	Tourenge	Aargadi	PF	P1118	1165.901	0.5	0.058
23	13	USTR	Tourenge	Shobha	PF	P1119	1865.241	0.5	0.094
24	14	USTR	Tourenge	Aargadi	PF	P1114	4280.150	0.5	0.214
25	16	USTR	Tourenge	Taurenga	PF	P1101	2873.982	0.5	0.144
26	16	USTR	Tourenge	Aargadi	PF	P1106	2042.092	0.5	0.102
27	5	USTR	North Udanti	Motipani	PF	P57	2102.330	0.5	0.105
28	16	USTR	North Udanti	Kurrubhata	PF	P2	5692.712	0.5	0.285
29	16	USTR	North Udanti	Kurrubhata	PF	P3	1581.614	0.5	0.079
30	16	USTR	North Udanti	Jangada	PF	P5	3084.772	0.5	0.154
31	16	USTR	North Udanti	Chulhadongari	PF	P6	8927.768	0.5	0.446

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Applied Forest Area Statement – Udanti-Sitanadi Tiger Reserve, Gariyaband,									
Sl. No.	Patch	Forest Division	Forest Range	Village Name	Type	Comp. No.	Length (in m.)	Width (in m.)	Area (In Ha.)
32	16	USTR	North Udanti	Jugad	PF	P84	2242.799	0.5	0.112
33	16	USTR	North Udanti	Chulhadongari	PF	P89	3535.091	0.5	0.177
34	17	USTR	Kulhadighat	Kulhadighat	PF	P921	2030.610	0.5	0.101
35	17	USTR	Kulhadighat	Kulhadighat	PF	P929	3606.912	0.5	0.181
36	17	USTR	Kulhadighat	Kulhadighat	PF	P952	996.843	0.5	0.050
37	18	USTR	Tourenge	Jhariyabahara	PF	P1068	826.380	0.5	0.041
38	18	USTR	Tourenge	Jhariyabahara	PF	P1077	206.733	0.5	0.011
39	18	USTR	Tourenge	Fuljhar	PF	P1079	4830.349	0.5	0.242
Total Protect Forest							95481.541	0.5	4.772
40	1	USTR	Indagaon	Indagaon	RF	1228	6860.636	0.5	0.343
41	1	USTR	Indagaon	Indagaon	RF	1230	326.370	0.5	0.016
42	1	USTR	Indagaon	Burgaitappa	RF	1232	3375.836	0.5	0.169
43	1	USTR	Indagaon	Burgaitappa	RF	1233	1720.471	0.5	0.086
44	1	USTR	Indagaon	Dhurwagudi	RF	1234	2096.010	0.5	0.105
45	1	USTR	Indagaon	Dhurwagudi	RF	1235	1705.182	0.5	0.085
46	1	USTR	Indagaon	Dhurwagudi	RF	1236	2960.795	0.5	0.148
47	2	USTR	Indagaon	Indagaon	RF	1219	1060.077	0.5	0.054
48	2	USTR	South Udanti	Banjaribahara	RF	25	1107.334	0.5	0.055
49	2	USTR	South Udanti	Koyba	RF	30	1263.877	0.5	0.063
50	3	USTR	South Udanti	Banhanijhola	RF	32	235.984	0.5	0.012
51	3	USTR	South Udanti	Banhanijhola	RF	33	4700.724	0.5	0.236
52	4	USTR	South Udanti	Nagesh	RF	42	920.323	0.5	0.046
53	4	USTR	South Udanti	Godena	RF	51	1624.798	0.5	0.082
54	4	USTR	South Udanti	Punjipathra	RF	54	1553.971	0.5	0.077
55	4	USTR	South Udanti	Sondongari	RF	60	1624.798	0.5	0.082
56	5	USTR	South Udanti	Sahebin	RF	55	2481.268	0.5	0.124
57	5	USTR	South Udanti	Sahebin	RF	56	6855.399	0.5	0.342
58	16	USTR	South Udanti	Udanti	RF	29	1402.921	0.5	0.070
59	8	USTR	Risgaon	Joratarai	RF	150	2051.857	0.5	0.103
60	8	USTR	Risgaon	Joratarai	RF	151	186.156	0.5	0.009
61	8	USTR	Risgaon	Risgaon	RF	166	643.753	0.5	0.032
62	18	USTR	Arsikanhar	Basin	RF	391	857.409	0.5	0.043

Chhattisgarh BharatNet Phase-II Project

Applied Forest Area Statement – Udanti-Sitanadi Tiger Reserve, Gariyaband,									
Sl. No.	Pat ch	Forest Division	Forest Range	Village Name	Type	Comp. No.	Length (in m.)	Width (in m.)	Area (In Ha.)
63	19	USTR	Arsikanhar	Basin	RF	392	956.594	0.5	0.048
64	19	USTR	Arsikanhar	Arjuni	RF	393	980.541	0.5	0.049
65	19	USTR	Arsikanhar	Arjuni	RF	397	228.684	0.5	0.012
66	19	USTR	Arsikanhar	Arjuni	RF	398	744.383	0.5	0.037
67	20	USTR	Arsikanhar	Arjuni	RF	395	559.165	0.5	0.028
68	21	USTR	Arsikanhar	Arjuni	RF	395A	2569.409	0.5	0.128
69	22	USTR	Arsikanhar	Arsikanhar	RF	191	1527.604	0.5	0.076
70	22	USTR	Arsikanhar	Arsikanhar	RF	192	2573.405	0.5	0.129
71	22	USTR	Arsikanhar	Arsikanhar	RF	195	4838.364	0.5	0.242
72	22	USTR	Arsikanhar	Lilanj	RF	199	722.881	0.5	0.036
73	22	USTR	Arsikanhar	Lilanj	RF	200	2217.432	0.5	0.111
74	22	USTR	Arsikanhar	Lilanj	RF	203	526.666	0.5	0.026
75	22	USTR	Arsikanhar	Lilanj	RF	204	2438.858	0.5	0.122
76	22	USTR	Arsikanhar	Lilanj	RF	205	2068.782	0.5	0.104
77	22	USTR	Arsikanhar	Arjuni	RF	396	1574.333	0.5	0.079
78	23	USTR	Arsikanhar	Lilanj	RF	202	815.200	0.5	0.041
79	24	USTR	Arsikanhar	Mauhabahara	RF	208	680.086	0.5	0.034
80	24	USTR	Arsikanhar	Mauhabahara	RF	209	263.576	0.5	0.013
81	25	USTR	Arsikanhar	Bhiragaon	RF	210	1059.834	0.5	0.053
82	25	USTR	Sitanadi	Bamhaninbharri	RF	357	911.478	0.5	0.046
83	26	USTR	Sitanadi	Gidhawa	RF	351	684.298	0.5	0.034
84	26	USTR	Sitanadi	Birnasilly	RF	352	1236.697	0.5	0.062
85	26	USTR	Sitanadi	Birnasilly	RF	353	3780.876	0.5	0.189
86	26	USTR	Sitanadi	Bamhaninbharri	RF	355	664.378	0.5	0.033
87	27	USTR	Sitanadi	Singanpur	RF	332	1579.357	0.5	0.079
Total Reserve Forest							83818.830	0.5	4.193
Total Applied Forest Land							179300.371	0.5	8.965

Deputy Director
Udanti-Sitanadi Tiger Reserve
Gariyaband (C.G.)



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

Point	Patch	Latitude in D:M:S	Longitude in D:M:S	Point	Patch	Latitude in D:M:S	Longitude in D:M:S
P-1	1	20°04'13.16222"	82°22'55.75593"	P-39	1	20°01'49.05549"	82°23'53.09117"
P-2	1	20°04'08.56892"	82°22'58.72721"	P-40	1	20°01'49.05549"	82°23'53.09117"
P-3	1	20°04'08.56892"	82°22'58.72721"	P-41	1	20°01'43.59278"	82°23'56.80800"
P-4	1	20°04'06.65380"	82°22'59.94753"	P-42	1	20°01'42.92854"	82°23'57.22644"
P-5	1	20°04'13.16222"	82°22'55.75593"	P-43	1	20°01'32.73711"	82°24'03.14643"
P-6	1	20°04'17.90740"	82°22'51.07338"	P-44	1	20°01'26.80260"	82°24'05.94879"
P-7	1	20°04'22.47888"	82°22'46.18352"	P-45	1	20°01'25.98759"	82°24'06.21182"
P-8	1	20°04'26.84567"	82°22'41.92576"	P-46	1	20°01'42.92854"	82°23'57.22644"
P-9	1	20°04'06.65380"	82°22'59.94753"	P-47	1	20°01'37.21875"	82°24'00.37221"
P-10	1	20°04'00.71546"	82°23'01.82809"	P-48	1	20°01'32.73711"	82°24'03.14643"
P-11	1	20°03'54.37047"	82°23'00.31262"	P-49	1	20°01'25.98759"	82°24'06.21182"
P-12	1	20°03'48.01157"	82°22'58.86706"	P-50	1	20°01'19.52271"	82°24'06.82334"
P-13	1	20°03'41.65983"	82°22'57.38992"	P-51	1	20°01'13.12861"	82°24'08.00908"
P-14	1	20°03'35.32139"	82°22'58.32811"	P-52	1	20°01'06.81838"	82°24'09.67744"
P-15	1	20°03'29.13722"	82°23'00.45899"	P-53	1	20°01'00.58441"	82°24'11.63984"
P-16	1	20°03'22.99049"	82°23'02.68936"	P-54	1	20°00'55.06068"	82°24'14.76918"
P-17	1	20°03'16.53346"	82°23'03.42450"	P-55	1	20°00'52.27733"	82°24'20.72726"
P-18	1	20°03'10.06631"	82°23'02.71039"	P-56	1	20°00'48.28884"	82°24'25.21202"
P-19	1	20°03'05.22383"	82°23'02.69628"	P-57	1	20°00'42.51437"	82°24'28.24495"
P-20	1	20°02'30.49020"	82°23'18.78350"	P-58	1	20°00'37.74290"	82°24'32.89968"
P-21	1	20°02'24.24365"	82°23'20.04012"	P-59	1	20°00'33.67165"	82°24'35.74270"
P-22	1	20°02'19.00454"	82°23'23.91667"	P-60	1	20°00'15.43163"	82°24'54.57410"
P-23	1	20°02'16.10417"	82°23'27.53905"	P-61	1	20°00'11.06093"	82°24'59.61235"
P-24	1	20°03'05.22383"	82°23'02.69628"	P-62	1	20°00'07.32944"	82°25'05.23865"
P-25	1	20°02'58.78853"	82°23'03.69440"	P-63	1	20°00'04.28626"	82°25'09.91450"
P-26	1	20°02'52.36553"	82°23'03.21337"	P-64	1	20°00'33.67165"	82°24'35.74270"
P-27	1	20°02'46.02157"	82°23'01.69642"	P-65	1	20°00'28.85345"	82°24'40.32925"
P-28	1	20°02'41.40223"	82°23'05.12639"	P-66	1	20°00'24.28129"	82°24'45.22366"
P-29	1	20°02'38.69809"	82°23'11.38554"	P-67	1	20°00'19.68171"	82°24'50.08888"
P-30	1	20°02'36.77976"	82°23'17.96019"	P-68	1	20°00'15.43163"	82°24'54.57410"
P-31	1	20°02'30.86574"	82°23'18.84050"	P-69	1	20°00'15.52814"	82°23'35.68805"
P-32	1	20°02'30.49020"	82°23'18.78350"	P-70	1	20°00'21.26069"	82°23'35.44562"
P-33	1	20°02'16.10417"	82°23'27.53905"	P-71	1	20°00'27.58895"	82°23'36.33373"
P-34	1	20°02'12.78702"	82°23'33.45597"	P-72	1	20°00'32.95203"	82°23'39.27927"
P-35	1	20°02'09.15416"	82°23'39.16459"	P-73	1	20°00'39.31755"	82°23'38.00755"
P-36	1	20°02'03.96994"	82°23'43.25949"	P-74	1	20°00'45.66408"	82°23'36.63966"
P-37	1	20°01'58.41028"	82°23'46.83162"	P-75	1	20°00'49.50031"	82°23'34.19750"
P-38	1	20°01'52.91280"	82°23'50.51002"	P-76	1	20°00'49.50031"	82°23'34.19750"

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Point	Patch	Latitude in D:M:S	Longitude in D:M:S	Point	Patch	Latitude in D:M:S	Longitude in D:M:S
P-77	1	20°00'54.14331"	82°23'29.39686"	P-116	1	20°03'14.05875"	82°23'02.75455"
P-78	1	20°00'57.88209"	82°23'26.57404"	P-117	1	20°04'08.40695"	82°22'58.30920"
P-79	1	20°00'57.88209"	82°23'26.57404"	P-118	1	20°04'12.86995"	82°22'55.42212"
P-80	1	20°01'03.87852"	82°23'23.98819"	P-119	1	20°03'14.05875"	82°23'02.75455"
P-81	1	20°01'09.11521"	82°23'20.69494"	P-120	1	20°03'20.53803"	82°23'02.65599"
P-82	1	20°01'15.03936"	82°23'18.34601"	P-121	1	20°03'26.81959"	82°23'00.94866"
P-83	1	20°01'20.61730"	82°23'20.75822"	P-122	1	20°03'32.94365"	82°22'58.63667"
P-84	1	20°01'23.97392"	82°23'26.27583"	P-123	1	20°03'39.19876"	82°22'56.76610"
P-85	1	20°01'23.32523"	82°23'33.05852"	P-124	1	20°03'45.57699"	82°22'57.89277"
P-86	1	20°01'24.78100"	82°23'39.69676"	P-125	1	20°03'51.94477"	82°22'59.29171"
P-87	1	20°01'28.28779"	82°23'45.44050"	P-126	1	20°03'58.29509"	82°23'00.78168"
P-88	1	20°01'31.28502"	82°23'49.51077"	P-127	1	20°04'04.51164"	82°23'00.80974"
P-89	1	20°01'31.28502"	82°23'49.51077"	P-128	1	20°04'08.40695"	82°22'58.30920"
P-90	1	20°01'37.24967"	82°23'50.49217"	P-129	1	20°04'12.86995"	82°22'55.42212"
P-91	1	20°01'48.38908"	82°23'53.00743"	P-130	1	20°04'14.15347"	82°22'54.42221"
P-92	1	20°01'53.88649"	82°23'49.32945"	P-131	1	20°04'14.15347"	82°22'54.42221"
P-93	1	20°01'59.40461"	82°23'45.68678"	P-132	1	20°04'18.74419"	82°22'49.54720"
P-94	1	20°02'04.94155"	82°23'42.07556"	P-133	1	20°04'23.39349"	82°22'44.73402"
P-95	1	20°02'09.69984"	82°23'37.51998"	P-134	1	20°04'26.51395"	82°22'41.72823"
P-96	1	20°02'13.30459"	82°23'31.79121"	P-135	1	20°01'41.50095"	82°24'03.62175"
P-97	1	20°02'16.67016"	82°23'25.91173"	P-136	1	20°01'42.73781"	82°23'57.46825"
P-98	1	20°02'21.21520"	82°23'21.00978"	P-137	1	20°01'42.92854"	82°23'57.22644"
P-99	1	20°02'22.30367"	82°23'20.44516"	P-138	1	20°01'42.92854"	82°23'57.22644"
P-100	1	20°01'37.24967"	82°23'50.49217"	P-139	1	20°01'42.10014"	82°24'03.74084"
P-101	1	20°01'41.14647"	82°23'53.97432"	P-140	1	20°01'41.50095"	82°24'03.62175"
P-102	1	20°01'45.34447"	82°23'55.15887"	P-141	2	20°05'18.60408"	82°21'07.17962"
P-103	1	20°01'48.38908"	82°23'53.00743"	P-142	2	20°05'21.27265"	82°21'13.44704"
P-104	1	20°02'22.30367"	82°23'20.44516"	P-143	2	20°05'18.68513"	82°21'19.60945"
P-105	1	20°02'28.39756"	82°23'18.11424"	P-144	2	20°05'17.56878"	82°21'22.55615"
P-106	1	20°02'30.33339"	82°23'18.30772"	P-145	2	20°05'14.19868"	82°20'46.74046"
P-107	1	20°02'30.33339"	82°23'18.30772"	P-146	2	20°05'14.62849"	82°20'53.51553"
P-108	1	20°02'36.37464"	82°23'17.82800"	P-147	2	20°05'16.34131"	82°21'00.15735"
P-109	1	20°02'38.29378"	82°23'11.25367"	P-148	2	20°05'18.37537"	82°21'06.67411"
P-110	1	20°02'40.99528"	82°23'04.99341"	P-149	2	20°05'18.60408"	82°21'07.17962"
P-111	1	20°02'45.49431"	82°23'01.13311"	P-150	2	20°05'17.56878"	82°21'22.55615"
P-112	1	20°02'51.84433"	82°23'02.62000"	P-151	2	20°05'17.39737"	82°21'24.33009"
P-113	1	20°02'58.25626"	82°23'03.32840"	P-152	2	20°05'20.40560"	82°21'47.47583"
P-114	1	20°03'04.69286"	82°23'02.33887"	P-153	2	20°05'18.29658"	82°21'53.95232"
P-115	1	20°03'11.14766"	82°23'02.38963"	P-154	2	20°05'15.72454"	82°22'00.27042"

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Point	Patch	Latitude in D:M:S	Longitude in D:M:S	Point	Patch	Latitude in D:M:S	Longitude in D:M:S
P-155	2	20°05'12.57142"	82°22'04.73704"	P-194	3	20°04'35.95892"	82°17'35.89384"
P-156	2	20°05'20.83374"	82°21'13.38971"	P-195	3	20°04'32.75744"	82°17'31.31096"
P-157	2	20°05'18.51434"	82°21'08.03022"	P-196	3	20°04'30.53977"	82°17'24.89098"
P-158	2	20°05'18.51434"	82°21'08.03022"	P-197	3	20°04'25.23884"	82°17'21.03399"
P-159	2	20°05'16.24652"	82°21'01.60166"	P-198	3	20°04'19.04962"	82°17'19.07645"
P-160	2	20°05'14.55659"	82°20'54.95354"	P-199	3	20°04'14.87450"	82°17'16.64071"
P-161	2	20°05'13.61243"	82°20'48.21702"	P-200	3	20°05'46.66608"	82°18'34.94692"
P-162	2	20°05'13.79113"	82°20'46.58960"	P-201	3	20°05'42.35157"	82°18'29.97612"
P-163	2	20°05'16.98064"	82°21'24.23550"	P-202	3	20°05'38.27110"	82°18'24.83630"
P-164	2	20°05'19.25224"	82°21'17.93911"	P-203	3	20°05'33.30553"	82°18'21.05241"
P-165	2	20°05'20.83374"	82°21'13.38971"	P-204	3	20°05'31.94275"	82°18'14.43757"
P-166	2	20°05'12.35847"	82°22'04.34500"	P-205	3	20°05'32.62858"	82°18'07.70752"
P-167	2	20°05'15.93787"	82°21'58.71375"	P-206	3	20°05'28.24581"	82°18'02.70929"
P-168	2	20°05'18.50371"	82°21'52.38915"	P-207	3	20°05'24.40276"	82°17'57.58650"
P-169	2	20°05'19.96832"	82°21'47.72804"	P-208	3	20°05'18.42140"	82°17'55.33522"
P-170	3	20°05'46.68595"	82°18'34.94888"	P-209	3	20°05'14.85284"	82°17'53.53865"
P-171	3	20°05'42.37651"	82°18'29.97277"	P-210	3	20°05'14.85284"	82°17'53.53865"
P-172	3	20°05'38.29961"	82°18'24.82124"	P-211	3	20°05'09.44021"	82°17'50.13341"
P-173	3	20°05'33.32624"	82°18'21.05381"	P-212	3	20°05'03.72881"	82°17'47.53967"
P-174	3	20°05'31.95932"	82°18'14.44075"	P-213	3	20°05'00.62823"	82°17'45.76260"
P-175	3	20°05'50.46109"	82°18'40.46925"	P-214	3	20°05'00.62823"	82°17'45.76260"
P-176	3	20°05'46.66608"	82°18'34.94692"	P-215	3	20°04'54.61091"	82°17'46.94568"
P-177	3	20°05'51.32024"	82°18'41.39958"	P-216	3	20°04'48.50165"	82°17'44.64987"
P-178	3	20°05'47.31062"	82°18'35.99489"	P-217	3	20°04'43.26496"	82°17'41.10481"
P-179	3	20°05'46.68595"	82°18'34.94888"	P-218	3	20°04'38.34598"	82°17'36.91761"
P-180	3	20°05'32.28429"	82°18'08.96739"	P-219	3	20°04'32.56514"	82°17'33.96567"
P-181	3	20°05'29.19829"	82°18'03.58960"	P-220	3	20°04'31.25417"	82°17'27.51915"
P-182	3	20°05'25.48202"	82°17'58.28095"	P-221	3	20°04'27.40816"	82°17'22.51304"
P-183	3	20°05'19.36923"	82°17'56.21864"	P-222	3	20°04'26.28364"	82°17'21.77139"
P-184	3	20°05'13.98048"	82°17'52.58370"	P-223	3	20°04'26.28364"	82°17'21.77139"
P-185	3	20°05'08.19377"	82°17'50.06102"	P-224	3	20°04'20.18910"	82°17'19.62966"
P-186	3	20°05'02.58774"	82°17'47.02043"	P-225	3	20°04'14.86558"	82°17'16.65520"
P-187	3	20°05'00.64076"	82°17'45.74942"	P-226	4	20°03'52.67610"	82°17'12.08197"
P-188	3	20°05'00.64076"	82°17'45.74942"	P-227	4	20°03'51.25144"	82°17'10.53390"
P-189	3	20°04'54.62354"	82°17'46.93226"	P-228	4	20°03'51.25144"	82°17'10.53390"
P-190	3	20°04'48.51405"	82°17'44.63701"	P-229	4	20°03'45.66970"	82°17'07.09521"
P-191	3	20°04'43.27675"	82°17'41.09296"	P-230	4	20°03'40.94963"	82°17'02.47802"
P-192	3	20°04'41.62108"	82°17'38.99653"	P-231	4	20°03'38.05397"	82°16'56.33812"
P-193	3	20°04'41.62108"	82°17'38.99653"	P-232	4	20°03'34.76188"	82°16'50.43302"

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Point	Patch	Latitude in D:M:S	Longitude in D:M:S	Point	Patch	Latitude in D:M:S	Longitude in D:M:S
P-233	4	20°03'29.89756"	82°16'46.33986"	P-272	4	20°03'42.13541"	82°17'04.23532"
P-234	4	20°03'24.69021"	82°16'42.36250"	P-273	4	20°03'39.09963"	82°16'58.20206"
P-235	4	20°03'23.57634"	82°16'35.82243"	P-274	4	20°03'35.65610"	82°16'52.37330"
P-236	4	20°03'23.51718"	82°16'28.94652"	P-275	4	20°03'35.24806"	82°16'51.66782"
P-237	4	20°03'21.39759"	82°16'22.55723"	P-276	4	20°03'35.24806"	82°16'51.66782"
P-238	4	20°03'20.51612"	82°16'21.04116"	P-277	4	20°03'31.04715"	82°16'46.86844"
P-239	4	20°03'20.51612"	82°16'21.04116"	P-278	4	20°03'25.56291"	82°16'43.32537"
P-240	4	20°03'18.68553"	82°16'18.27198"	P-279	4	20°03'23.63952"	82°16'37.16942"
P-241	4	20°03'15.53074"	82°16'07.14625"	P-280	4	20°03'23.40758"	82°16'30.29225"
P-242	4	20°03'15.50528"	82°16'03.61479"	P-281	4	20°03'22.00732"	82°16'23.73257"
P-243	4	20°03'18.68553"	82°16'18.27198"	P-282	4	20°03'15.48957"	82°16'03.61956"
P-244	4	20°03'15.50527"	82°16'12.61922"	P-283	4	20°03'20.54972"	82°16'21.12861"
P-245	4	20°03'15.53074"	82°16'07.14625"	P-284	4	20°03'16.50516"	82°16'15.77291"
P-246	4	20°03'15.50528"	82°16'03.61479"	P-285	4	20°03'15.58932"	82°16'09.23189"
P-247	4	20°03'13.34643"	82°15'57.31445"	P-286	4	20°03'15.50937"	82°16'07.08564"
P-248	4	20°03'13.41724"	82°15'50.49920"	P-287	4	20°03'15.48957"	82°16'03.61956"
P-249	4	20°03'14.97424"	82°15'43.83576"	P-288	4	20°03'13.33071"	82°15'57.31922"
P-250	4	20°03'16.32648"	82°15'37.10484"	P-289	4	20°03'12.96530"	82°15'53.96246"
P-251	4	20°03'15.84106"	82°15'30.38992"	P-290	4	20°03'06.19393"	82°15'18.58402"
P-252	4	20°03'10.22801"	82°15'27.04240"	P-291	4	20°03'00.32171"	82°15'15.91894"
P-253	4	20°03'08.80069"	82°15'21.33289"	P-292	4	20°02'55.18785"	82°15'12.43218"
P-254	4	20°03'08.06155"	82°15'19.10028"	P-293	4	20°03'12.96530"	82°15'53.96246"
P-255	4	20°03'06.19064"	82°15'18.57432"	P-294	4	20°03'14.22291"	82°15'47.24856"
P-256	4	20°03'00.31028"	82°15'15.90497"	P-295	4	20°03'15.65049"	82°15'40.53475"
P-257	4	20°02'55.22297"	82°15'12.43872"	P-296	4	20°03'16.60383"	82°15'33.75236"
P-258	4	20°03'08.06155"	82°15'19.10028"	P-297	4	20°03'13.03573"	82°15'28.81253"
P-259	4	20°02'51.69946"	82°15'09.46217"	P-298	4	20°03'08.11628"	82°15'24.53723"
P-260	4	20°02'45.50163"	82°15'07.48289"	P-299	4	20°03'07.73121"	82°15'18.95932"
P-261	4	20°02'39.76003"	82°15'04.35913"	P-300	4	20°02'51.32805"	82°15'09.31153"
P-262	4	20°02'34.35521"	82°15'00.68573"	P-301	4	20°02'46.28467"	82°15'07.76585"
P-263	4	20°02'28.64703"	82°14'57.40970"	P-302	4	20°02'46.28467"	82°15'07.76585"
P-264	4	20°02'25.56079"	82°14'56.05079"	P-303	4	20°02'40.45583"	82°15'04.82888"
P-265	4	20°02'16.34814"	82°14'31.60416"	P-304	4	20°02'35.09921"	82°15'01.07256"
P-266	4	20°02'11.47468"	82°14'28.15814"	P-305	4	20°02'29.36983"	82°14'57.84261"
P-267	4	20°02'12.28659"	82°14'21.53315"	P-306	4	20°02'25.52504"	82°14'56.05365"
P-268	4	20°02'12.03366"	82°14'14.79178"	P-307	4	20°02'16.34159"	82°14'31.62280"
P-269	4	20°02'13.69826"	82°14'09.30653"	P-308	4	20°02'11.45992"	82°14'28.17997"
P-270	4	20°03'52.66055"	82°17'12.09185"	P-309	4	20°02'12.25971"	82°14'21.55232"
P-271	4	20°03'47.32538"	82°17'08.35650"	P-310	4	20°02'12.36202"	82°14'21.28832"

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Point	Patch	Latitude in D:M:S	Longitude in D:M:S	Point	Patch	Latitude in D:M:S	Longitude in D:M:S
P-311	4	20°02'12.36202"	82°14'21.28832"	P-350	5	20°02'54.16373"	82°12'41.66182"
P-312	4	20°02'12.02515"	82°14'14.52814"	P-351	5	20°02'57.88783"	82°12'36.22701"
P-313	4	20°02'13.69467"	82°14'09.28031"	P-352	5	20°03'00.58838"	82°12'30.26185"
P-314	4	20°02'25.56079"	82°14'56.05079"	P-353	5	20°03'04.25753"	82°12'25.17225"
P-315	4	20°02'20.53850"	82°14'51.85048"	P-354	5	20°03'02.97053"	82°12'18.85529"
P-316	4	20°02'19.17011"	82°14'45.28547"	P-355	5	20°03'05.61465"	82°12'12.96010"
P-317	4	20°02'18.99893"	82°14'43.21614"	P-356	5	20°03'10.60804"	82°12'10.40439"
P-318	4	20°02'25.56079"	82°14'56.05079"	P-357	5	20°03'16.56263"	82°12'08.75904"
P-319	4	20°02'20.53850"	82°14'51.85048"	P-358	5	20°03'20.83660"	82°12'03.62918"
P-320	4	20°02'19.17011"	82°14'45.28547"	P-359	5	20°03'20.92966"	82°12'03.50136"
P-321	4	20°02'18.99893"	82°14'43.21614"	P-360	5	20°04'03.21481"	82°11'33.90098"
P-322	4	20°02'18.99893"	82°14'43.21614"	P-361	5	20°04'08.78955"	82°11'30.66946"
P-323	4	20°02'17.36643"	82°14'36.59650"	P-362	5	20°04'11.10111"	82°11'27.10064"
P-324	4	20°02'16.34814"	82°14'31.60416"	P-363	5	20°03'20.92966"	82°12'03.50136"
P-325	4	20°02'18.99893"	82°14'43.21614"	P-364	5	20°03'26.00992"	82°11'59.53783"
P-326	4	20°02'17.36643"	82°14'36.59650"	P-365	5	20°03'32.19984"	82°11'57.80804"
P-327	4	20°02'16.34814"	82°14'31.60416"	P-366	5	20°03'36.92944"	82°11'53.33996"
P-328	4	20°02'25.52504"	82°14'56.05365"	P-367	5	20°03'40.64375"	82°11'47.87211"
P-329	4	20°02'20.51145"	82°14'51.84114"	P-368	5	20°03'46.18787"	82°11'44.49018"
P-330	4	20°02'19.15332"	82°14'45.27192"	P-369	5	20°03'50.93730"	82°11'39.94701"
P-331	4	20°02'17.79886"	82°14'38.60085"	P-370	5	20°03'56.59803"	82°11'36.72171"
P-332	4	20°02'16.59049"	82°14'31.93593"	P-371	5	20°04'02.52961"	82°11'34.16122"
P-333	4	20°02'16.34159"	82°14'31.62280"	P-372	5	20°04'03.21481"	82°11'33.90098"
P-334	4	20°02'25.52504"	82°14'56.05365"	P-373	5	20°04'11.10111"	82°11'27.10064"
P-335	4	20°02'20.51145"	82°14'51.84114"	P-374	5	20°04'11.84510"	82°11'20.32258"
P-336	4	20°02'19.15332"	82°14'45.27192"	P-375	5	20°04'13.51472"	82°11'13.82276"
P-337	4	20°02'17.79886"	82°14'38.60085"	P-376	5	20°04'18.35973"	82°11'09.30568"
P-338	4	20°02'16.59049"	82°14'31.93593"	P-377	5	20°04'21.67275"	82°11'06.99373"
P-339	4	20°02'16.34159"	82°14'31.62280"	P-378	5	20°02'28.32211"	82°13'15.69868"
P-340	5	20°02'28.32422"	82°13'15.69843"	P-379	5	20°02'33.41741"	82°13'12.37311"
P-341	5	20°02'33.43153"	82°13'12.38351"	P-380	5	20°02'38.89588"	82°13'09.65550"
P-342	5	20°02'38.91394"	82°13'09.66233"	P-381	5	20°02'42.36428"	82°13'04.60020"
P-343	5	20°02'42.38229"	82°13'04.60757"	P-382	5	20°02'47.47101"	82°13'01.16491"
P-344	5	20°02'47.48728"	82°13'01.17006"	P-383	5	20°02'49.23189"	82°12'54.98644"
P-345	5	20°02'49.24889"	82°12'54.99259"	P-384	5	20°02'50.81766"	82°12'48.53410"
P-346	5	20°02'50.13881"	82°12'52.01975"	P-385	5	20°02'51.15411"	82°12'47.18592"
P-347	5	20°02'50.13881"	82°12'52.01975"	P-386	5	20°02'51.15411"	82°12'47.18592"
P-348	5	20°02'51.17196"	82°12'47.18486"	P-387	5	20°02'54.14655"	82°12'41.66310"
P-349	5	20°02'51.17196"	82°12'47.18486"	P-388	5	20°02'57.86492"	82°12'36.22370"

Point	Patch	Latitude in D:M:S	Longitude in D:M:S	Point	Patch	Latitude in D:M:S	Longitude in D:M:S
P-389	5	20°03'00.57212"	82°12'30.26329"	P-428	6	20°03'51.12635"	82°10'32.23436"
P-390	5	20°03'00.52821"	82°12'29.09150"	P-429	6	20°03'57.03838"	82°10'34.31787"
P-391	5	20°03'00.52821"	82°12'29.09150"	P-430	6	20°04'03.53204"	82°10'34.56689"
P-392	5	20°03'04.56879"	82°12'24.05363"	P-431	6	20°04'09.47532"	82°10'35.31227"
P-393	5	20°03'03.62221"	82°12'17.91876"	P-432	6	20°04'15.90795"	82°10'34.30546"
P-394	5	20°03'06.07840"	82°12'11.91435"	P-433	6	20°04'20.25249"	82°10'35.91879"
P-395	5	20°03'11.67961"	82°12'10.58745"	P-434	6	20°04'39.25294"	82°10'41.86424"
P-396	5	20°03'17.28801"	82°12'07.88242"	P-435	6	20°04'33.29764"	82°10'40.85441"
P-397	5	20°03'21.50613"	82°12'02.69677"	P-436	6	20°04'27.35803"	82°10'38.35878"
P-398	5	20°03'26.85986"	82°11'59.10781"	P-437	6	20°04'21.06943"	82°10'36.66698"
P-399	5	20°03'33.02913"	82°11'57.33168"	P-438	6	20°04'20.24781"	82°10'36.30049"
P-400	5	20°03'37.71402"	82°11'52.78648"	P-439	6	20°04'20.24781"	82°10'36.30049"
P-401	5	20°03'40.30810"	82°11'48.51385"	P-440	6	20°04'14.06479"	82°10'34.88579"
P-402	5	20°04'03.20991"	82°11'33.88454"	P-441	6	20°04'07.68927"	82°10'36.20256"
P-403	5	20°04'08.78936"	82°11'30.66158"	P-442	6	20°04'01.62604"	82°10'34.92815"
P-404	5	20°04'11.74417"	82°11'24.65941"	P-443	6	20°03'55.13403"	82°10'34.81427"
P-405	5	20°04'12.04108"	82°11'17.79586"	P-444	6	20°03'50.75046"	82°10'32.48142"
P-406	5	20°04'15.23929"	82°11'12.09001"	P-445	6	20°04'39.23575"	82°10'41.86526"
P-407	5	20°04'20.12842"	82°11'07.65954"	P-446	6	20°04'45.42362"	82°10'39.90472"
P-408	5	20°04'21.66986"	82°11'06.98400"	P-447	6	20°04'51.73637"	82°10'38.25462"
P-409	5	20°03'40.30810"	82°11'48.51385"	P-448	6	20°04'57.29462"	82°10'35.90054"
P-410	5	20°03'45.59264"	82°11'44.89066"	P-449	6	20°04'42.87785"	82°10'49.95911"
P-411	5	20°03'50.33485"	82°11'40.31402"	P-450	6	20°04'39.95508"	82°10'43.85561"
P-412	5	20°03'56.06863"	82°11'37.21083"	P-451	6	20°04'39.23575"	82°10'41.86526"
P-413	5	20°04'01.82566"	82°11'34.27038"	P-452	7	20°05'09.80348"	82°10'29.11240"
P-414	5	20°04'03.20991"	82°11'33.88454"	P-453	7	20°05'14.93902"	82°10'26.03214"
P-415	6	20°04'42.92243"	82°10'51.86384"	P-454	7	20°05'20.99036"	82°10'24.62754"
P-416	6	20°04'40.81526"	82°10'45.53848"	P-455	7	20°05'26.09411"	82°10'20.79875"
P-417	6	20°04'39.25294"	82°10'41.86424"	P-456	7	20°05'31.56152"	82°10'18.85201"
P-418	6	20°04'39.25294"	82°10'41.86424"	P-457	7	20°05'33.56381"	82°10'18.73162"
P-419	6	20°04'45.45283"	82°10'39.91522"	P-458	7	20°06'07.19697"	82°10'00.06477"
P-420	6	20°04'51.76639"	82°10'38.26558"	P-459	7	20°06'09.69826"	82°09'53.72467"
P-421	6	20°04'57.31378"	82°10'35.89270"	P-460	7	20°06'12.76356"	82°09'47.65346"
P-422	6	20°05'00.35792"	82°10'32.14191"	P-461	7	20°05'37.61624"	82°10'18.15145"
P-423	6	20°04'39.23575"	82°10'41.86526"	P-462	7	20°05'43.92109"	82°10'16.48374"
P-424	6	20°04'26.44289"	82°10'37.90276"	P-463	7	20°05'50.37568"	82°10'15.77240"
P-425	6	20°04'32.55045"	82°10'39.90965"	P-464	7	20°05'50.74611"	82°10'15.71169"
P-426	6	20°04'38.59956"	82°10'41.86114"	P-465	7	20°05'59.84818"	82°10'19.96058"
P-427	6	20°04'39.23575"	82°10'41.86526"	P-466	7	20°06'02.55986"	82°10'13.86547"

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Point	Patch	Latitude in D:M:S	Longitude in D:M:S	Point	Patch	Latitude in D:M:S	Longitude in D:M:S
P-467	7	20°06'04.95744"	82°10'07.46492"	P-506	8	20°06'15.83312"	82°05'13.43621"
P-468	7	20°05'55.53744"	82°10'17.50584"	P-507	8	20°06'20.53498"	82°05'18.17822"
P-469	7	20°05'59.84818"	82°10'19.96058"	P-508	8	20°06'26.05402"	82°05'21.81990"
P-470	7	20°06'14.11331"	82°09'45.55467"	P-509	8	20°06'31.51141"	82°05'25.53430"
P-471	7	20°06'15.02408"	82°09'43.92094"	P-510	8	20°06'36.77358"	82°05'29.56689"
P-472	7	20°05'09.80435"	82°10'29.09296"	P-511	8	20°06'42.28826"	82°05'33.16625"
P-473	7	20°05'14.93742"	82°10'26.01125"	P-512	8	20°06'47.63895"	82°05'37.06773"
P-474	7	20°05'20.99047"	82°10'24.61024"	P-513	8	20°06'52.39934"	82°05'41.72708"
P-475	7	20°05'26.08813"	82°10'20.77416"	P-514	8	20°06'58.69513"	82°05'43.24173"
P-476	7	20°05'31.56069"	82°10'18.83834"	P-515	8	20°07'05.04457"	82°05'44.20090"
P-477	7	20°05'37.96888"	82°10'18.09479"	P-516	8	20°07'06.62370"	82°05'43.62942"
P-478	7	20°05'44.26772"	82°10'16.38655"	P-517	9	20°05'57.80798"	82°06'23.31349"
P-479	7	20°05'50.72630"	82°10'15.70593"	P-518	9	20°05'57.81492"	82°06'17.52863"
P-480	7	20°05'50.74463"	82°10'15.70265"	P-519	9	20°05'57.97226"	82°06'26.74480"
P-481	7	20°05'50.74463"	82°10'15.70265"	P-520	9	20°05'57.80798"	82°06'23.31349"
P-482	7	20°05'56.63135"	82°10'18.13308"	P-521	9	20°06'15.65763"	82°07'15.50824"
P-483	7	20°05'57.77825"	82°10'18.80950"	P-522	9	20°06'11.38091"	82°07'10.32004"
P-484	7	20°06'14.42310"	82°10'27.38370"	P-523	9	20°06'06.90505"	82°07'05.46319"
P-485	7	20°06'20.83384"	82°10'26.81817"	P-524	9	20°06'05.23590"	82°06'58.82332"
P-486	7	20°06'26.44365"	82°10'23.37674"	P-525	9	20°06'04.57126"	82°06'52.00220"
P-487	7	20°06'31.85704"	82°10'19.59979"	P-526	9	20°06'03.17747"	82°06'45.42992"
P-488	7	20°06'37.55098"	82°10'16.41615"	P-527	9	20°06'00.92619"	82°06'38.98759"
P-489	7	20°06'04.69470"	82°10'22.58735"	P-528	9	20°05'58.41282"	82°06'32.63958"
P-490	7	20°05'59.01232"	82°10'19.53041"	P-529	9	20°05'57.97226"	82°06'26.74480"
P-491	7	20°05'59.84818"	82°10'19.96058"	P-530	9	20°05'57.81492"	82°06'17.52863"
P-492	8	20°05'55.22907"	82°05'11.63447"	P-531	9	20°05'57.64669"	82°06'10.64673"
P-493	8	20°05'53.92161"	82°05'04.94060"	P-532	9	20°05'58.25390"	82°06'04.21875"
P-494	8	20°05'54.33937"	82°04'58.08368"	P-533	9	20°05'54.47878"	82°05'58.65759"
P-495	8	20°05'59.54751"	82°04'56.18311"	P-534	9	20°05'50.61521"	82°05'53.19567"
P-496	8	20°06'05.20823"	82°04'59.52710"	P-535	9	20°05'49.62488"	82°05'51.07650"
P-497	8	20°06'09.56249"	82°05'02.27568"	P-536	10	20°06'23.93516"	82°09'09.06546"
P-498	8	20°06'13.13304"	82°05'07.31959"	P-537	10	20°06'27.10828"	82°09'03.14098"
P-499	8	20°06'09.56249"	82°05'02.27568"	P-538	10	20°06'29.69079"	82°08'57.01342"
P-500	8	20°07'58.14166"	82°05'40.03601"	P-539	10	20°06'34.10319"	82°08'52.01121"
P-501	8	20°08'03.96662"	82°05'37.23649"	P-540	10	20°06'37.82071"	82°08'46.79071"
P-502	8	20°08'09.37369"	82°05'34.30495"	P-541	10	20°06'38.68275"	82°08'22.03889"
P-503	8	20°08'10.61747"	82°05'27.77203"	P-542	10	20°06'36.87467"	82°08'15.53519"
P-504	8	20°08'10.24274"	82°05'26.74355"	P-543	10	20°06'36.22348"	82°08'08.68796"
P-505	8	20°06'13.13304"	82°05'07.31959"	P-544	10	20°06'37.17677"	82°08'02.40052"

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Point	Patch	Latitude in D:M:S	Longitude in D:M:S	Point	Patch	Latitude in D:M:S	Longitude in D:M:S
P-545	10	20°06'37.82071"	82°08'46.79071"	P-584	10	20°08'25.39253"	82°09'22.45959"
P-546	10	20°06'40.40376"	82°08'40.57057"	P-585	10	20°08'26.24153"	82°09'22.94659"
P-547	10	20°06'42.52446"	82°08'34.30454"	P-586	10	20°08'32.50178"	82°09'24.68360"
P-548	10	20°06'42.90931"	82°08'27.81230"	P-587	10	20°08'38.93073"	82°09'25.66619"
P-549	10	20°06'38.91072"	82°08'22.41288"	P-588	10	20°08'45.42871"	82°09'25.74559"
P-550	10	20°06'38.68275"	82°08'22.03889"	P-589	10	20°08'46.90522"	82°09'25.81193"
P-551	10	20°06'37.17677"	82°08'02.40052"	P-590	10	20°08'25.39253"	82°09'22.45959"
P-552	10	20°06'37.46841"	82°08'02.89026"	P-591	10	20°08'26.24153"	82°09'22.94659"
P-553	10	20°06'37.46841"	82°08'02.89026"	P-592	10	20°06'25.77293"	82°07'21.97779"
P-554	10	20°06'43.08522"	82°08'04.47133"	P-593	10	20°06'28.80037"	82°07'28.01473"
P-555	10	20°06'49.09926"	82°08'02.15355"	P-594	10	20°06'31.06004"	82°07'34.43818"
P-556	10	20°06'53.16421"	82°08'03.24316"	P-595	10	20°06'31.13425"	82°07'38.97158"
P-557	10	20°06'53.16421"	82°08'03.24316"	P-596	10	20°06'31.13425"	82°07'38.97158"
P-558	10	20°06'59.54102"	82°08'04.08521"	P-597	10	20°06'33.00659"	82°07'44.95359"
P-559	10	20°07'03.51964"	82°08'08.94747"	P-598	10	20°06'35.90268"	82°07'50.72693"
P-560	10	20°07'09.60805"	82°08'11.31801"	P-599	10	20°06'36.26384"	82°07'57.60272"
P-561	10	20°07'14.97528"	82°08'15.20597"	P-600	10	20°06'37.17677"	82°08'02.40052"
P-562	10	20°07'19.22034"	82°08'20.34484"	P-601	10	20°06'30.73448"	82°07'38.97137"
P-563	10	20°07'23.80254"	82°08'25.07909"	P-602	10	20°06'30.09512"	82°07'32.19583"
P-564	10	20°07'30.16214"	82°08'26.37193"	P-603	10	20°06'27.38309"	82°07'25.94265"
P-565	10	20°07'35.57799"	82°08'30.07175"	P-604	10	20°06'25.51999"	82°07'22.30631"
P-566	10	20°07'40.00810"	82°08'35.10713"	P-605	10	20°06'37.17677"	82°08'02.40052"
P-567	10	20°07'42.95987"	82°08'39.21968"	P-606	10	20°06'35.80165"	82°07'56.18100"
P-568	10	20°07'50.88918"	82°08'51.88522"	P-607	10	20°06'35.42718"	82°07'49.30596"
P-569	10	20°07'53.43045"	82°08'57.93814"	P-608	10	20°06'31.52505"	82°07'44.04600"
P-570	10	20°07'58.65561"	82°09'02.03738"	P-609	10	20°06'30.73448"	82°07'38.97137"
P-571	10	20°08'03.96826"	82°09'06.01059"	P-610	10	20°07'55.89825"	82°09'22.01718"
P-572	10	20°08'08.04722"	82°09'11.28982"	P-611	10	20°08'01.89999"	82°09'19.39830"
P-573	10	20°08'08.88531"	82°09'12.86220"	P-612	10	20°08'06.25186"	82°09'18.62762"
P-574	10	20°07'47.52881"	82°08'45.36889"	P-613	10	20°08'26.27012"	82°09'22.98116"
P-575	10	20°07'50.76676"	82°08'51.19595"	P-614	10	20°08'32.53317"	82°09'24.71056"
P-576	10	20°07'50.88918"	82°08'51.88522"	P-615	10	20°08'38.96323"	82°09'25.68674"
P-577	10	20°07'42.95987"	82°08'39.21968"	P-616	10	20°08'39.67965"	82°09'25.75838"
P-578	10	20°07'46.96755"	82°08'44.64461"	P-617	10	20°08'06.25186"	82°09'18.62762"
P-579	10	20°07'47.52881"	82°08'45.36889"	P-618	10	20°08'12.62810"	82°09'19.06222"
P-580	10	20°08'08.88531"	82°09'12.86220"	P-619	10	20°08'18.19230"	82°09'22.42967"
P-581	10	20°08'12.24142"	82°09'18.71758"	P-620	10	20°08'24.35365"	82°09'22.00873"
P-582	10	20°08'17.71990"	82°09'22.25746"	P-621	10	20°08'26.27012"	82°09'22.98116"
P-583	10	20°08'23.86831"	82°09'21.92105"	P-622	10	20°08'39.67965"	82°09'25.75838"

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Point	Patch	Latitude in D:M:S	Longitude in D:M:S	Point	Patch	Latitude in D:M:S	Longitude in D:M:S
P-623	10	20°08'46.18040"	82°09'25.79363"	P-662	13	20°10'02.80073"	82°09'46.23544"
P-624	10	20°08'46.90799"	82°09'25.82931"	P-663	13	20°10'07.91671"	82°09'50.24323"
P-625	11	20°06'58.32172"	82°10'04.84851"	P-664	13	20°10'10.42062"	82°09'56.50734"
P-626	11	20°07'03.37811"	82°10'00.53610"	P-665	13	20°10'13.74899"	82°09'58.54792"
P-627	11	20°07'08.21377"	82°09'55.94218"	P-666	13	20°10'30.61379"	82°09'57.95373"
P-628	11	20°07'13.37176"	82°09'51.86611"	P-667	13	20°10'32.57395"	82°09'57.71593"
P-629	11	20°07'13.86981"	82°09'49.83953"	P-668	14	20°10'47.89366"	82°10'15.69737"
P-630	11	20°07'13.86981"	82°09'49.83953"	P-669	14	20°10'51.71806"	82°10'21.24461"
P-631	11	20°07'18.95490"	82°09'46.01845"	P-670	14	20°10'55.09147"	82°10'27.12709"
P-632	11	20°07'21.93996"	82°09'40.00017"	P-671	14	20°11'00.42452"	82°10'31.01922"
P-633	11	20°07'25.52476"	82°09'34.60007"	P-672	14	20°11'01.12645"	82°10'31.43944"
P-634	11	20°07'30.96965"	82°09'30.84650"	P-673	14	20°11'01.12645"	82°10'31.43944"
P-635	11	20°07'32.29290"	82°09'30.35802"	P-674	14	20°11'06.43164"	82°10'35.41543"
P-636	12	20°08'59.08939"	82°09'28.45771"	P-675	14	20°11'11.88143"	82°10'39.16806"
P-637	12	20°09'05.10814"	82°09'30.96307"	P-676	14	20°11'17.82267"	82°10'41.89022"
P-638	12	20°09'11.34891"	82°09'30.90843"	P-677	14	20°11'23.73543"	82°10'44.61162"
P-639	12	20°09'15.59105"	82°09'25.77136"	P-678	14	20°11'27.85732"	82°10'49.51842"
P-640	12	20°09'16.24780"	82°09'25.22692"	P-679	14	20°11'33.03817"	82°10'53.64609"
P-641	12	20°08'59.07424"	82°09'28.47175"	P-680	14	20°11'37.42309"	82°10'58.67656"
P-642	12	20°09'05.09311"	82°09'30.97660"	P-681	14	20°11'38.05226"	82°11'02.58988"
P-643	12	20°09'11.33551"	82°09'30.93454"	P-682	14	20°11'43.28733"	82°11'20.03077"
P-644	12	20°09'15.58129"	82°09'25.80324"	P-683	14	20°11'45.09596"	82°11'22.99337"
P-645	12	20°09'16.25061"	82°09'25.24503"	P-684	14	20°10'47.88875"	82°10'15.71857"
P-646	13	20°10'13.79423"	82°09'58.53001"	P-685	14	20°10'51.71118"	82°10'21.26718"
P-647	13	20°10'20.24754"	82°09'59.04340"	P-686	14	20°10'55.08680"	82°10'27.14809"
P-648	13	20°10'26.71864"	82°09'58.40006"	P-687	14	20°11'00.42205"	82°10'31.03752"
P-649	13	20°10'32.57418"	82°09'57.69870"	P-688	14	20°11'05.76949"	82°10'34.94277"
P-650	13	20°09'51.19258"	82°09'40.31466"	P-689	14	20°11'11.17116"	82°10'38.77740"
P-651	13	20°09'56.91612"	82°09'43.29166"	P-690	14	20°11'14.93511"	82°10'40.79500"
P-652	13	20°10'02.80149"	82°09'46.21677"	P-691	14	20°11'43.27109"	82°11'20.03338"
P-653	13	20°10'07.92103"	82°09'50.22028"	P-692	14	20°11'45.08319"	82°11'23.00416"
P-654	13	20°10'10.43122"	82°09'56.48135"	P-693	14	20°11'14.93511"	82°10'40.79500"
P-655	13	20°10'13.79423"	82°09'58.53001"	P-694	14	20°11'21.06211"	82°10'42.99703"
P-656	13	20°10'13.74899"	82°09'58.54792"	P-695	14	20°11'25.79796"	82°10'47.09252"
P-657	13	20°10'20.20233"	82°09'59.06270"	P-696	14	20°11'30.51621"	82°10'51.78136"
P-658	13	20°10'26.67368"	82°09'58.42278"	P-697	14	20°11'35.51003"	82°10'56.15407"
P-659	13	20°10'30.61379"	82°09'57.95373"	P-698	14	20°11'37.97558"	82°11'02.25368"
P-660	13	20°09'51.19206"	82°09'40.33199"	P-699	14	20°11'38.03639"	82°11'02.59367"
P-661	13	20°09'56.91526"	82°09'43.31053"	P-700	15	20°11'52.57141"	82°13'17.38295"

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Point	Patch	Latitude in D:M:S	Longitude in D:M:S	Point	Patch	Latitude in D:M:S	Longitude in D:M:S
P-701	15	20°11'48.07121"	82°13'22.23254"	P-740	15	20°11'52.71562"	82°12'29.31414"
P-702	15	20°11'47.00937"	82°13'22.60156"	P-741	15	20°11'50.53372"	82°12'35.20850"
P-703	15	20°11'47.00937"	82°13'22.60156"	P-742	15	20°11'51.21682"	82°12'38.94293"
P-704	15	20°11'41.50364"	82°13'25.68269"	P-743	15	20°11'51.21682"	82°12'38.94293"
P-705	15	20°11'37.64287"	82°13'31.22210"	P-744	15	20°11'52.30964"	82°12'45.71215"
P-706	15	20°11'37.11749"	82°13'38.05313"	P-745	15	20°11'52.99919"	82°12'52.45671"
P-707	15	20°11'37.22879"	82°13'44.90405"	P-746	15	20°11'58.17745"	82°12'56.59497"
P-708	15	20°11'36.37553"	82°13'51.73383"	P-747	15	20°12'03.40551"	82°13'00.60626"
P-709	15	20°11'37.06472"	82°14'03.89186"	P-748	15	20°12'01.50335"	82°13'06.42488"
P-710	15	20°11'37.03769"	82°14'10.78013"	P-749	15	20°11'58.39317"	82°13'12.15347"
P-711	15	20°11'36.42001"	82°14'14.14767"	P-750	15	20°11'53.20318"	82°13'16.20363"
P-712	15	20°11'36.29080"	82°13'56.69922"	P-751	15	20°11'52.57141"	82°13'17.38295"
P-713	15	20°11'36.04089"	82°14'15.63741"	P-752	15	20°11'56.15576"	82°12'15.33328"
P-714	15	20°11'35.91249"	82°14'16.15570"	P-753	15	20°11'55.75504"	82°12'22.17033"
P-715	15	20°11'35.91249"	82°14'16.15570"	P-754	15	20°11'53.35872"	82°12'28.54556"
P-716	15	20°11'33.59264"	82°14'22.49530"	P-755	15	20°11'51.85421"	82°12'30.17466"
P-717	15	20°11'30.75775"	82°14'28.43916"	P-756	15	20°11'48.67406"	82°11'53.08800"
P-718	15	20°11'32.05925"	82°14'35.16238"	P-757	15	20°11'51.04498"	82°11'59.39476"
P-719	15	20°11'31.85638"	82°14'42.02719"	P-758	15	20°11'51.85847"	82°12'06.02827"
P-720	15	20°11'31.28240"	82°14'48.76715"	P-759	15	20°11'55.53020"	82°12'11.58654"
P-721	15	20°11'32.31712"	82°14'55.54280"	P-760	15	20°11'56.15576"	82°12'15.33328"
P-722	15	20°11'31.67200"	82°15'02.31401"	P-761	15	20°11'51.85421"	82°12'30.17466"
P-723	15	20°11'27.73435"	82°15'07.79151"	P-762	15	20°11'50.72958"	82°12'36.46271"
P-724	15	20°11'23.72820"	82°15'13.21793"	P-763	15	20°11'51.22760"	82°12'38.91479"
P-725	15	20°11'20.04546"	82°15'16.09738"	P-764	15	20°11'51.22760"	82°12'38.91479"
P-726	15	20°11'20.04546"	82°15'16.09738"	P-765	15	20°11'52.32553"	82°12'45.68339"
P-727	15	20°11'15.33552"	82°15'20.56012"	P-766	15	20°11'53.00236"	82°12'52.43211"
P-728	15	20°11'10.53956"	82°15'24.95969"	P-767	15	20°11'58.17710"	82°12'56.57421"
P-729	15	20°11'06.81595"	82°15'30.23003"	P-768	15	20°12'03.40986"	82°13'00.58082"
P-730	15	20°11'06.51171"	82°15'32.56218"	P-769	15	20°12'01.54539"	82°13'06.40981"
P-731	15	20°11'56.14691"	82°12'15.29421"	P-770	15	20°11'58.43773"	82°13'12.14191"
P-732	15	20°11'55.74197"	82°12'22.13060"	P-771	15	20°11'53.24269"	82°13'16.18571"
P-733	15	20°11'55.51293"	82°12'23.15457"	P-772	15	20°11'49.17655"	82°13'21.45620"
P-734	15	20°11'48.65766"	82°11'53.08901"	P-773	15	20°11'47.00101"	82°13'22.62083"
P-735	15	20°11'51.02867"	82°11'59.39574"	P-774	15	20°11'47.00101"	82°13'22.62083"
P-736	15	20°11'51.84071"	82°12'06.02986"	P-775	15	20°11'41.50183"	82°13'25.71254"
P-737	15	20°11'55.51375"	82°12'11.58756"	P-776	15	20°11'37.64694"	82°13'31.25566"
P-738	15	20°11'56.14691"	82°12'15.29421"	P-777	15	20°11'37.13274"	82°13'38.08925"
P-739	15	20°11'55.51293"	82°12'23.15457"	P-778	15	20°11'37.24033"	82°13'44.93983"

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Point	Patch	Latitude in D:M:S	Longitude in D:M:S	Point	Patch	Latitude in D:M:S	Longitude in D:M:S
P-779	15	20°11'36.38831"	82°13'51.76977"	P-818	16	20°09'49.25323"	82°16'09.87850"
P-780	15	20°11'37.08046"	82°14'03.91853"	P-819	16	20°09'49.25323"	82°16'09.87850"
P-781	15	20°11'37.05286"	82°14'10.80677"	P-820	16	20°09'42.89061"	82°16'08.69748"
P-782	15	20°11'36.43309"	82°14'14.16251"	P-821	16	20°09'42.06551"	82°16'09.06268"
P-783	15	20°11'36.30711"	82°13'56.70010"	P-822	16	20°09'42.06551"	82°16'09.06268"
P-784	15	20°11'36.05178"	82°14'15.66142"	P-823	16	20°09'36.16455"	82°16'08.84556"
P-785	15	20°11'33.92358"	82°14'22.10657"	P-824	16	20°09'29.74054"	82°16'08.34765"
P-786	15	20°11'32.80917"	82°14'23.43843"	P-825	16	20°09'24.10700"	82°16'11.73157"
P-787	15	20°11'32.80917"	82°14'23.43843"	P-826	16	20°09'18.28481"	82°16'14.72399"
P-788	15	20°11'31.01411"	82°14'29.68179"	P-827	16	20°09'12.26476"	82°16'17.32801"
P-789	15	20°11'32.12304"	82°14'36.43012"	P-828	16	20°09'06.34520"	82°16'20.16405"
P-790	15	20°11'31.64115"	82°14'43.27194"	P-829	16	20°09'00.18046"	82°16'22.35854"
P-791	15	20°11'31.61606"	82°14'49.99060"	P-830	16	20°08'56.07580"	82°16'24.43421"
P-792	15	20°11'32.37627"	82°14'56.81080"	P-831	16	20°08'44.43241"	82°16'31.27706"
P-793	15	20°11'31.03559"	82°15'03.37599"	P-832	16	20°08'50.12287"	82°16'27.94494"
P-794	15	20°11'27.00713"	82°15'08.78527"	P-833	16	20°08'55.80768"	82°16'24.59779"
P-795	15	20°11'22.91188"	82°15'14.12671"	P-834	16	20°08'56.07580"	82°16'24.43421"
P-796	15	20°11'17.34955"	82°15'17.65984"	P-835	16	20°08'44.43241"	82°16'31.27706"
P-797	15	20°11'14.64604"	82°15'21.92871"	P-836	16	20°08'41.96031"	82°16'37.48323"
P-798	15	20°11'14.64604"	82°15'21.92871"	P-837	16	20°08'38.82943"	82°16'43.32084"
P-799	15	20°11'09.34674"	82°15'25.84519"	P-838	16	20°08'33.48510"	82°16'47.15642"
P-800	15	20°11'06.62777"	82°15'31.77472"	P-839	16	20°08'27.62459"	82°16'50.13768"
P-801	15	20°11'06.52795"	82°15'32.56354"	P-840	16	20°08'23.45357"	82°16'55.23016"
P-802	16	20°10'57.50586"	82°15'48.76670"	P-841	16	20°08'20.42794"	82°17'01.32523"
P-803	16	20°10'53.79047"	82°15'54.39899"	P-842	16	20°08'17.56125"	82°17'07.50450"
P-804	16	20°10'49.86734"	82°15'59.89107"	P-843	16	20°08'13.56058"	82°17'12.93390"
P-805	16	20°10'44.73349"	82°16'02.73031"	P-844	16	20°08'11.33682"	82°17'19.26415"
P-806	16	20°10'40.41741"	82°16'03.40394"	P-845	16	20°08'11.50893"	82°17'24.43801"
P-807	16	20°10'40.41741"	82°16'03.40394"	P-846	16	20°08'11.50893"	82°17'24.43801"
P-808	16	20°10'34.15646"	82°16'04.95580"	P-847	16	20°08'09.96469"	82°17'31.10607"
P-809	16	20°10'27.69888"	82°16'04.13785"	P-848	16	20°08'08.60293"	82°17'37.61386"
P-810	16	20°10'21.57053"	82°16'02.76808"	P-849	16	20°08'06.52937"	82°17'43.92845"
P-811	16	20°10'18.86055"	82°16'00.79154"	P-850	16	20°08'04.12855"	82°17'50.26643"
P-812	16	20°10'18.86055"	82°16'00.79154"	P-851	16	20°08'03.50261"	82°17'57.09555"
P-813	16	20°10'12.76903"	82°15'59.19240"	P-852	16	20°08'03.25952"	82°17'57.93798"
P-814	16	20°10'06.53819"	82°16'01.16918"	P-853	16	20°07'58.97780"	82°18'09.00781"
P-815	16	20°10'00.17905"	82°16'02.33544"	P-854	16	20°07'55.36834"	82°18'14.66666"
P-816	16	20°09'54.25562"	82°16'05.06919"	P-855	16	20°07'50.17487"	82°18'18.78644"
P-817	16	20°09'49.93918"	82°16'09.93475"	P-856	16	20°07'45.38712"	82°18'21.86718"

Point	Patch	Latitude in D:M:S	Longitude in D:M:S	Point	Patch	Latitude in D:M:S	Longitude in D:M:S
P-857	16	20°08'03.25952"	82°17'57.93798"	P-896	16	20°08'19.62603"	82°18'42.07544"
P-858	16	20°08'00.59960"	82°18'04.20061"	P-897	16	20°08'19.29162"	82°18'35.44867"
P-859	16	20°07'58.97780"	82°18'09.00781"	P-898	16	20°08'18.72150"	82°18'32.61745"
P-860	16	20°07'45.38712"	82°18'21.86718"	P-899	16	20°08'49.18157"	82°19'23.04498"
P-861	16	20°07'38.99742"	82°18'23.12279"	P-900	16	20°08'44.54897"	82°19'18.68889"
P-862	16	20°07'35.75622"	82°18'24.21282"	P-901	16	20°08'38.81720"	82°19'15.53664"
P-863	16	20°07'17.43880"	82°18'36.59369"	P-902	16	20°08'36.79667"	82°19'14.83769"
P-864	16	20°07'12.54516"	82°18'38.67369"	P-903	16	20°08'18.72150"	82°18'32.61745"
P-865	16	20°07'11.94878"	82°18'45.53029"	P-904	16	20°08'17.52979"	82°18'25.86305"
P-866	16	20°07'07.97055"	82°18'50.53613"	P-905	16	20°08'15.86187"	82°18'19.28703"
P-867	16	20°07'02.89842"	82°18'54.71661"	P-906	16	20°08'15.07384"	82°18'16.29551"
P-868	16	20°06'59.63643"	82°18'59.19667"	P-907	16	20°08'15.07384"	82°18'16.29551"
P-869	16	20°07'35.75622"	82°18'24.21282"	P-908	16	20°08'12.76056"	82°18'10.52992"
P-870	16	20°07'30.61803"	82°18'27.84724"	P-909	16	20°08'11.80443"	82°18'03.89314"
P-871	16	20°07'24.76539"	82°18'30.71718"	P-910	16	20°08'06.43743"	82°18'00.25686"
P-872	16	20°07'19.85877"	82°18'35.04616"	P-911	16	20°08'03.25952"	82°17'57.93798"
P-873	16	20°07'17.43880"	82°18'36.59369"	P-912	16	20°08'15.51181"	82°18'16.37295"
P-874	16	20°06'59.63643"	82°18'59.19667"	P-913	16	20°08'17.60221"	82°18'22.84241"
P-875	16	20°06'57.43041"	82°19'04.08983"	P-914	16	20°08'18.45548"	82°18'29.65165"
P-876	16	20°06'57.43041"	82°19'04.08983"	P-915	16	20°08'19.69436"	82°18'36.38777"
P-877	16	20°06'55.97688"	82°19'07.24122"	P-916	16	20°08'19.71601"	82°18'42.95356"
P-878	16	20°06'55.97688"	82°19'07.24122"	P-917	16	20°08'19.33403"	82°18'49.80934"
P-879	16	20°06'50.19841"	82°19'10.29796"	P-918	16	20°08'20.71659"	82°18'56.53605"
P-880	16	20°06'44.07950"	82°19'08.63165"	P-919	16	20°08'20.81066"	82°18'56.98965"
P-881	16	20°06'37.84903"	82°19'08.93050"	P-920	16	20°08'03.27407"	82°17'57.94641"
P-882	16	20°06'34.65593"	82°19'09.78707"	P-921	16	20°08'09.06127"	82°18'00.97171"
P-883	16	20°09'21.17893"	82°19'24.85309"	P-922	16	20°08'12.96304"	82°18'06.10649"
P-884	16	20°09'15.56690"	82°19'27.21763"	P-923	16	20°08'13.06732"	82°18'12.94801"
P-885	16	20°09'09.26799"	82°19'27.57454"	P-924	16	20°08'03.27407"	82°17'57.94641"
P-886	16	20°09'03.24875"	82°19'25.90958"	P-925	16	20°08'20.81066"	82°18'56.98965"
P-887	16	20°08'57.13980"	82°19'27.48020"	P-926	16	20°08'23.41929"	82°19'03.15693"
P-888	16	20°08'51.29941"	82°19'24.63555"	P-927	16	20°08'28.69898"	82°19'06.89772"
P-889	16	20°08'49.18157"	82°19'23.04498"	P-928	16	20°08'33.08573"	82°19'11.87663"
P-890	16	20°08'36.79667"	82°19'14.83769"	P-929	16	20°08'36.95680"	82°19'14.45317"
P-891	16	20°08'31.49651"	82°19'10.99452"	P-930	16	20°08'36.95680"	82°19'14.45317"
P-892	16	20°08'26.87017"	82°19'06.65047"	P-931	16	20°08'42.70725"	82°19'17.50375"
P-893	16	20°08'22.19905"	82°19'02.03425"	P-932	16	20°08'47.93678"	82°19'21.00401"
P-894	16	20°08'20.08490"	82°18'55.62884"	P-933	16	20°08'52.92297"	82°19'25.27834"
P-895	16	20°08'18.90325"	82°18'48.87112"	P-934	16	20°08'59.05340"	82°19'27.20245"

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Point	Patch	Latitude in D:M:S	Longitude in D:M:S	Point	Patch	Latitude in D:M:S	Longitude in D:M:S
P-935	16	20°09'05.05735"	82°19'25.25141"	P-974	16	20°08'41.61686"	82°16'38.70628"
P-936	16	20°09'11.15154"	82°19'27.02362"	P-975	16	20°08'41.61686"	82°16'38.70628"
P-937	16	20°09'11.37589"	82°19'26.98771"	P-976	16	20°08'37.96247"	82°16'44.19383"
P-938	16	20°09'11.37589"	82°19'26.98771"	P-977	16	20°08'32.44217"	82°16'47.76831"
P-939	16	20°09'17.10929"	82°19'25.17025"	P-978	16	20°08'26.60708"	82°16'50.79577"
P-940	16	20°09'21.21879"	82°19'24.67671"	P-979	16	20°08'22.92965"	82°16'56.37605"
P-941	16	20°10'57.52036"	82°15'48.77545"	P-980	16	20°08'19.92345"	82°17'02.48122"
P-942	16	20°10'53.80476"	82°15'54.40755"	P-981	16	20°08'16.86186"	82°17'08.53622"
P-943	16	20°10'49.88165"	82°15'59.89965"	P-982	16	20°08'12.85832"	82°17'13.96250"
P-944	16	20°10'44.75067"	82°16'02.74856"	P-983	16	20°08'11.40598"	82°17'20.54388"
P-945	16	20°10'38.43262"	82°16'04.11197"	P-984	16	20°08'11.02467"	82°17'27.36891"
P-946	16	20°10'32.99156"	82°16'04.83400"	P-985	16	20°08'09.62316"	82°17'32.31644"
P-947	16	20°10'32.99156"	82°16'04.83400"	P-986	16	20°07'58.99231"	82°18'09.01711"
P-948	16	20°10'26.52875"	82°16'04.09012"	P-987	16	20°07'55.38241"	82°18'14.67586"
P-949	16	20°10'20.63873"	82°16'02.03327"	P-988	16	20°07'50.18946"	82°18'18.79624"
P-950	16	20°10'18.84851"	82°16'00.80418"	P-989	16	20°07'44.61881"	82°18'21.98149"
P-951	16	20°10'18.84851"	82°16'00.80418"	P-990	16	20°07'38.26075"	82°18'23.39063"
P-952	16	20°10'12.75665"	82°15'59.21398"	P-991	16	20°07'37.88161"	82°18'23.52090"
P-953	16	20°10'06.52592"	82°16'01.19117"	P-992	16	20°08'09.62316"	82°17'32.31644"
P-954	16	20°10'00.16610"	82°16'02.35353"	P-993	16	20°08'08.75729"	82°17'38.86758"
P-955	16	20°09'54.24501"	82°16'05.09526"	P-994	16	20°08'05.96530"	82°17'45.03751"
P-956	16	20°09'49.92621"	82°16'09.95214"	P-995	16	20°08'04.03234"	82°17'51.52910"
P-957	16	20°09'49.24952"	82°16'09.89529"	P-996	16	20°08'03.16737"	82°17'58.30800"
P-958	16	20°09'49.24952"	82°16'09.89529"	P-997	16	20°08'00.47078"	82°18'04.55613"
P-959	16	20°09'42.88713"	82°16'08.71648"	P-998	16	20°07'58.99231"	82°18'09.01711"
P-960	16	20°09'36.95279"	82°16'09.30204"	P-999	16	20°07'37.88161"	82°18'23.52090"
P-961	16	20°09'35.03404"	82°16'08.54667"	P-1000	16	20°07'35.75289"	82°18'24.23191"
P-962	16	20°09'35.03404"	82°16'08.54667"	P-1001	16	20°07'17.43870"	82°18'36.61173"
P-963	16	20°09'28.63816"	82°16'08.77822"	P-1002	16	20°07'12.55954"	82°18'38.70096"
P-964	16	20°09'23.12338"	82°16'12.42524"	P-1003	16	20°07'11.96139"	82°18'45.55735"
P-965	16	20°09'17.18775"	82°16'15.17917"	P-1004	16	20°07'07.97088"	82°18'50.55533"
P-966	16	20°09'11.20915"	82°16'17.88578"	P-1005	16	20°07'02.90186"	82°18'54.73965"
P-967	16	20°09'05.23054"	82°16'20.56572"	P-1006	16	20°06'59.14753"	82°19'00.32265"
P-968	16	20°08'59.08729"	82°16'22.82442"	P-1007	16	20°06'57.45550"	82°19'04.07434"
P-969	16	20°08'56.07866"	82°16'24.45241"	P-1008	16	20°07'35.75289"	82°18'24.23191"
P-970	16	20°08'56.07866"	82°16'24.45241"	P-1009	16	20°07'30.61687"	82°18'27.87046"
P-971	16	20°08'50.39419"	82°16'27.80018"	P-1010	16	20°07'24.76188"	82°18'30.73556"
P-972	16	20°08'44.69759"	82°16'31.12161"	P-1011	16	20°07'19.85904"	82°18'35.07101"
P-973	16	20°08'42.06249"	82°16'37.19397"	P-1012	16	20°06'56.45915"	82°19'06.33069"

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Point	Patch	Latitude in D:M:S	Longitude in D:M:S	Point	Patch	Latitude in D:M:S	Longitude in D:M:S
P-1013	16	20°06'56.45915"	82°19'06.33069"	P-1052	17	20°15'03.96997"	82°19'43.59997"
P-1014	16	20°06'55.98525"	82°19'07.25818"	P-1053	17	20°14'58.15115"	82°19'44.73017"
P-1015	16	20°06'55.98525"	82°19'07.25818"	P-1054	17	20°14'58.15115"	82°19'44.73017"
P-1016	16	20°06'50.20547"	82°19'10.31351"	P-1055	17	20°14'51.98495"	82°19'46.85890"
P-1017	16	20°06'44.08595"	82°19'08.65303"	P-1056	17	20°14'45.96725"	82°19'49.47477"
P-1018	16	20°06'37.85629"	82°19'08.94611"	P-1057	17	20°14'39.60208"	82°19'50.71424"
P-1019	16	20°06'34.65956"	82°19'09.80406"	P-1058	17	20°14'33.15645"	82°19'51.63682"
P-1020	17	20°17'15.93062"	82°18'23.65232"	P-1059	17	20°14'27.44500"	82°19'54.33220"
P-1021	17	20°17'12.64883"	82°18'29.52010"	P-1060	17	20°14'24.36201"	82°19'59.87743"
P-1022	17	20°17'10.02844"	82°18'35.82956"	P-1061	17	20°14'25.94132"	82°20'06.50926"
P-1023	17	20°17'07.45857"	82°18'42.16128"	P-1062	17	20°14'24.82143"	82°20'13.29223"
P-1024	17	20°17'04.85779"	82°18'48.47934"	P-1063	17	20°14'20.12411"	82°20'17.23883"
P-1025	17	20°16'59.51792"	82°18'51.29267"	P-1064	17	20°14'15.36152"	82°20'18.12126"
P-1026	17	20°16'53.01823"	82°18'51.03914"	P-1065	17	20°14'00.67910"	82°20'16.91927"
P-1027	17	20°16'46.51733"	82°18'50.81111"	P-1066	17	20°13'54.81036"	82°20'19.41004"
P-1028	17	20°16'42.53929"	82°18'50.65116"	P-1067	17	20°13'57.63636"	82°20'24.63370"
P-1029	17	20°16'42.53929"	82°18'50.65116"	P-1068	17	20°13'59.43907"	82°20'31.06769"
P-1030	17	20°16'36.04427"	82°18'50.28391"	P-1069	17	20°13'59.73354"	82°20'37.72764"
P-1031	17	20°16'29.55141"	82°18'49.87214"	P-1070	17	20°14'05.44108"	82°20'40.78479"
P-1032	17	20°16'23.51593"	82°18'52.08249"	P-1071	17	20°14'15.36152"	82°20'18.12126"
P-1033	17	20°16'20.95457"	82°18'53.39450"	P-1072	17	20°14'08.91412"	82°20'19.02935"
P-1034	17	20°16'20.95457"	82°18'53.39450"	P-1073	17	20°14'02.64741"	82°20'18.45870"
P-1035	17	20°16'14.72364"	82°18'54.68679"	P-1074	17	20°14'00.67910"	82°20'16.91927"
P-1036	17	20°16'08.22259"	82°18'54.46223"	P-1075	18	20°14'51.96991"	82°09'36.46655"
P-1037	17	20°16'01.72151"	82°18'54.24230"	P-1076	18	20°14'49.85356"	82°09'42.98300"
P-1038	17	20°15'55.59574"	82°18'55.77983"	P-1077	18	20°14'48.49794"	82°09'49.71897"
P-1039	17	20°15'50.32131"	82°18'59.81352"	P-1078	18	20°14'47.96137"	82°09'52.66165"
P-1040	17	20°15'46.46414"	82°19'05.28696"	P-1079	18	20°14'47.96137"	82°09'52.66165"
P-1041	17	20°15'45.37781"	82°19'07.10766"	P-1080	18	20°14'46.18722"	82°09'59.27878"
P-1042	17	20°15'45.37781"	82°19'07.10766"	P-1081	18	20°14'44.38887"	82°10'05.89442"
P-1043	17	20°15'41.37037"	82°19'12.52406"	P-1082	18	20°14'42.85316"	82°10'12.58944"
P-1044	17	20°15'37.15943"	82°19'17.77715"	P-1083	18	20°14'41.55540"	82°10'19.33899"
P-1045	17	20°15'33.45411"	82°19'23.42763"	P-1084	18	20°14'41.39589"	82°10'20.23226"
P-1046	17	20°15'30.53919"	82°19'28.32895"	P-1085	18	20°14'16.24330"	82°11'03.93520"
P-1047	17	20°15'30.53919"	82°19'28.32895"	P-1086	18	20°14'15.01377"	82°11'10.70070"
P-1048	17	20°15'27.05536"	82°19'34.14927"	P-1087	18	20°14'14.97179"	82°11'10.92843"
P-1049	17	20°15'23.06810"	82°19'39.51517"	P-1088	19	20°14'58.35497"	82°07'28.43392"
P-1050	17	20°15'16.76954"	82°19'41.13527"	P-1089	19	20°14'57.43437"	82°07'35.15715"
P-1051	17	20°15'10.37159"	82°19'42.37818"	P-1090	19	20°14'57.43862"	82°07'36.14562"

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Point	Patch	Latitude in D:M:S	Longitude in D:M:S	Point	Patch	Latitude in D:M:S	Longitude in D:M:S
P-1091	19	20°14'53.93412"	82°08'00.80122"	P-1130	22	20°15'58.85431"	82°00'09.90280"
P-1092	19	20°14'52.33540"	82°08'07.47212"	P-1131	22	20°16'04.91851"	82°00'12.39708"
P-1093	19	20°14'50.73464"	82°08'14.13193"	P-1132	22	20°16'10.97449"	82°00'14.91320"
P-1094	19	20°14'50.09470"	82°08'20.98708"	P-1133	22	20°16'16.99041"	82°00'17.53434"
P-1095	19	20°14'50.65682"	82°08'27.83138"	P-1134	22	20°16'23.02700"	82°00'20.06626"
P-1096	19	20°14'50.58145"	82°08'33.94389"	P-1135	22	20°16'29.52187"	82°00'20.43338"
P-1097	19	20°14'57.43862"	82°07'36.14562"	P-1136	22	20°16'32.51003"	82°00'29.43900"
P-1098	19	20°14'57.76092"	82°07'43.02722"	P-1137	22	20°16'29.38161"	82°00'35.13976"
P-1099	19	20°14'58.23693"	82°07'49.89897"	P-1138	22	20°16'29.23272"	82°00'36.22319"
P-1100	19	20°14'55.89100"	82°07'56.27853"	P-1139	22	20°16'33.32664"	82°00'20.72270"
P-1101	19	20°14'53.93412"	82°08'00.80122"	P-1140	22	20°16'38.54499"	82°00'24.79070"
P-1102	19	20°14'52.51100"	82°09'04.33074"	P-1141	22	20°16'37.78566"	82°00'24.91000"
P-1103	19	20°14'54.65666"	82°09'10.79066"	P-1142	22	20°16'34.49664"	82°00'27.52466"
P-1104	19	20°14'55.08551"	82°09'16.58771"	P-1143	22	20°16'29.23272"	82°00'36.22319"
P-1105	19	20°14'50.58145"	82°08'33.94389"	P-1144	22	20°16'28.68275"	82°00'43.09040"
P-1106	19	20°14'48.52875"	82°08'40.48374"	P-1145	22	20°16'28.96105"	82°00'49.97380"
P-1107	19	20°14'46.46582"	82°08'47.02008"	P-1146	22	20°16'29.31329"	82°00'56.85497"
P-1108	19	20°14'47.16946"	82°08'53.69491"	P-1147	22	20°16'29.34308"	82°01'03.74787"
P-1109	19	20°14'49.41277"	82°09'00.09530"	P-1148	22	20°16'29.37886"	82°01'10.64067"
P-1110	19	20°14'52.51100"	82°09'04.33074"	P-1149	22	20°16'29.35615"	82°01'17.53373"
P-1111	20	20°15'08.24137"	82°07'00.63094"	P-1150	22	20°16'30.65776"	82°01'24.16861"
P-1112	20	20°15'07.20228"	82°07'07.43467"	P-1151	22	20°16'34.35210"	82°01'29.72091"
P-1113	20	20°15'06.09331"	82°07'14.22549"	P-1152	22	20°16'34.67552"	82°01'36.59107"
P-1114	20	20°15'03.87073"	82°07'19.12073"	P-1153	22	20°16'33.59399"	82°01'43.38143"
P-1115	20	20°15'06.90735"	82°06'34.41954"	P-1154	22	20°16'31.86287"	82°01'50.02237"
P-1116	20	20°15'09.68004"	82°06'40.65435"	P-1155	22	20°16'29.96887"	82°01'56.33991"
P-1117	20	20°15'10.26468"	82°06'47.40099"	P-1156	22	20°16'29.25518"	82°01'57.44523"
P-1118	20	20°15'09.16012"	82°06'54.19342"	P-1157	22	20°16'29.25518"	82°01'57.44523"
P-1119	20	20°15'08.24137"	82°07'00.63094"	P-1158	22	20°16'25.34565"	82°02'02.78898"
P-1120	21	20°15'31.42101"	82°06'13.30972"	P-1159	22	20°16'19.97148"	82°02'06.67206"
P-1121	21	20°15'37.52942"	82°06'15.64249"	P-1160	22	20°16'15.19278"	82°02'11.32403"
P-1122	21	20°15'43.75025"	82°06'17.39449"	P-1161	22	20°16'09.50786"	82°02'14.60837"
P-1123	21	20°15'47.51616"	82°06'19.72136"	P-1162	22	20°16'03.97303"	82°02'18.16485"
P-1124	21	20°15'49.38766"	82°06'24.20956"	P-1163	22	20°15'59.79062"	82°02'23.44250"
P-1125	21	20°15'48.90895"	82°06'24.24691"	P-1164	22	20°15'55.48545"	82°02'28.59613"
P-1126	21	20°15'47.42020"	82°06'19.48791"	P-1165	22	20°15'50.23929"	82°02'32.66826"
P-1127	21	20°15'43.24190"	82°06'17.46529"	P-1166	22	20°15'44.70612"	82°02'36.28449"
P-1128	21	20°15'37.00328"	82°06'15.80858"	P-1167	22	20°15'39.25106"	82°02'39.98958"
P-1129	21	20°15'31.49344"	82°06'13.69705"	P-1168	22	20°15'36.29226"	82°02'46.12083"

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Point	Patch	Latitude in D:M:S	Longitude in D:M:S	Point	Patch	Latitude in D:M:S	Longitude in D:M:S
P-1169	22	20°15'36.05228"	82°02'46.66508"	P-1208	22	20°14'20.92474"	82°05'16.52135"
P-1170	22	20°15'36.05228"	82°02'46.66508"	P-1209	22	20°14'14.47677"	82°05'15.81617"
P-1171	22	20°15'32.40441"	82°02'52.35411"	P-1210	22	20°14'15.95791"	82°05'15.83532"
P-1172	22	20°15'28.81770"	82°02'58.10217"	P-1211	22	20°14'22.37196"	82°05'15.71121"
P-1173	22	20°15'25.52750"	82°03'04.04564"	P-1212	22	20°14'27.53569"	82°05'11.59095"
P-1174	22	20°15'22.83636"	82°03'07.17225"	P-1213	22	20°14'30.51561"	82°05'05.49638"
P-1175	22	20°15'22.83636"	82°03'07.17225"	P-1214	22	20°14'30.92099"	82°05'04.24603"
P-1176	22	20°15'17.80912"	82°03'11.48453"	P-1215	22	20°15'01.98811"	82°06'01.67601"
P-1177	22	20°15'13.68318"	82°03'16.75176"	P-1216	22	20°15'02.74910"	82°06'08.49395"
P-1178	22	20°15'10.43082"	82°03'22.72059"	P-1217	22	20°14'49.10296"	82°06'12.52284"
P-1179	22	20°15'06.70874"	82°03'28.34938"	P-1218	22	20°14'54.14029"	82°06'08.17204"
P-1180	22	20°15'02.30079"	82°03'33.41720"	P-1219	22	20°14'59.91161"	82°06'06.96897"
P-1181	22	20°14'57.81485"	82°03'38.40811"	P-1220	22	20°15'00.24272"	82°06'06.83347"
P-1182	22	20°14'53.33477"	82°03'43.40477"	P-1221	22	20°14'54.39426"	82°06'07.58659"
P-1183	22	20°14'49.41205"	82°03'48.78269"	P-1222	22	20°14'49.31485"	82°06'11.87637"
P-1184	22	20°14'48.21675"	82°03'55.53808"	P-1223	22	20°14'44.97968"	82°06'15.66987"
P-1185	22	20°14'47.42302"	82°04'02.37787"	P-1224	22	20°14'30.92099"	82°05'04.24603"
P-1186	22	20°14'49.51749"	82°04'08.56277"	P-1225	22	20°14'33.79583"	82°04'58.07255"
P-1187	22	20°14'51.59032"	82°04'14.88350"	P-1226	22	20°14'36.86625"	82°04'51.99652"
P-1188	22	20°14'51.40258"	82°04'20.85354"	P-1227	22	20°14'40.66827"	82°04'46.50726"
P-1189	22	20°14'51.40258"	82°04'20.85354"	P-1228	22	20°14'44.81172"	82°04'43.67985"
P-1190	22	20°14'51.16499"	82°04'27.74116"	P-1229	22	20°14'39.65569"	82°04'47.86810"
P-1191	22	20°14'50.51296"	82°04'34.56671"	P-1230	22	20°14'36.32042"	82°04'53.76505"
P-1192	22	20°14'48.52552"	82°04'41.12879"	P-1231	22	20°14'33.26223"	82°04'59.84815"
P-1193	22	20°14'47.18678"	82°04'47.85011"	P-1232	22	20°14'31.43369"	82°05'03.79189"
P-1194	22	20°14'47.26272"	82°04'54.74001"	P-1233	23	20°17'44.79482"	82°00'49.25771"
P-1195	22	20°14'47.44489"	82°05'01.62900"	P-1234	23	20°17'38.40248"	82°00'48.21576"
P-1196	22	20°14'48.28866"	82°05'08.44554"	P-1235	23	20°17'32.45636"	82°00'45.42373"
P-1197	22	20°14'50.23488"	82°05'15.02224"	P-1236	23	20°17'26.46555"	82°00'42.73793"
P-1198	22	20°14'52.22408"	82°05'21.58443"	P-1237	23	20°17'20.58386"	82°00'39.80390"
P-1199	22	20°14'54.26558"	82°05'28.12796"	P-1238	23	20°17'20.23503"	82°00'39.43395"
P-1200	22	20°14'56.77258"	82°05'34.48304"	P-1239	24	20°16'12.18807"	81°58'20.49505"
P-1201	22	20°14'59.21047"	82°05'40.86461"	P-1240	24	20°16'06.58069"	81°58'23.97264"
P-1202	22	20°15'01.02621"	82°05'47.48075"	P-1241	24	20°15'42.63706"	81°58'59.05732"
P-1203	22	20°15'01.88560"	82°05'54.29369"	P-1242	24	20°15'46.08522"	81°59'04.86098"
P-1204	22	20°15'01.98253"	82°06'01.18522"	P-1243	24	20°15'47.60362"	81°59'07.10290"
P-1205	22	20°14'47.54696"	82°04'41.62695"	P-1244	24	20°15'44.01042"	81°58'32.47967"
P-1206	22	20°14'30.16352"	82°05'07.53668"	P-1245	24	20°15'41.56214"	81°58'38.81590"
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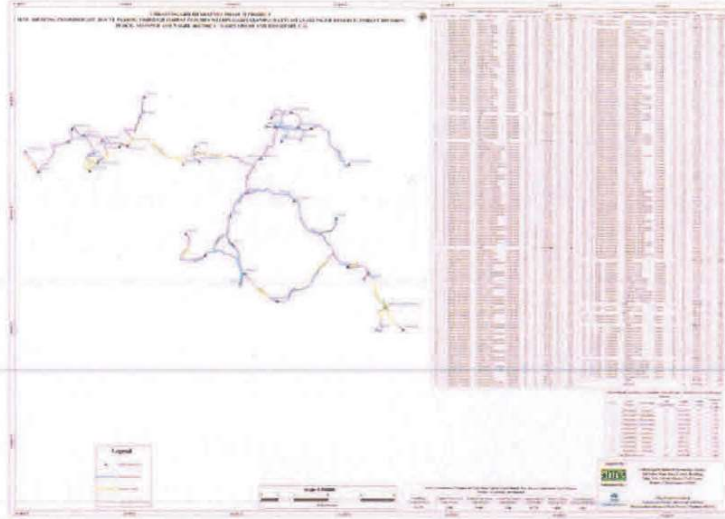
Chhattisgarh BharatNet Phase-II Project

Point	Patch	Latitude in D:M:S	Longitude in D:M:S	Point	Patch	Latitude in D:M:S	Longitude in D:M:S
P-1247	24	20°15'57.98861"	81°59'34.41071"	P-1280	26	20°13'46.52941"	81°56'13.99106"
P-1248	24	20°15'56.67566"	81°59'41.15955"	P-1281	26	20°13'45.53697"	81°56'20.62428"
P-1249	24	20°15'55.44121"	81°59'47.92661"	P-1282	26	20°13'42.91197"	81°56'23.95194"
P-1250	24	20°15'54.34373"	81°59'54.72103"	P-1283	26	20°13'39.64173"	81°56'29.37760"
P-1251	24	20°15'54.08021"	81°59'55.96545"	P-1284	26	20°13'44.06227"	81°56'28.58996"
P-1252	25	20°14'40.89396"	81°57'57.72884"	P-1285	26	20°13'49.95369"	81°56'28.21351"
P-1253	25	20°14'39.52775"	81°58'04.45826"	P-1286	26	20°13'56.23990"	81°56'29.11751"
P-1254	25	20°14'42.03714"	81°58'08.61764"	P-1287	26	20°14'02.68719"	81°56'28.20742"
P-1255	25	20°14'48.23155"	81°58'10.60377"	P-1288	26	20°14'09.17185"	81°56'27.70851"
P-1256	25	20°14'54.69643"	81°58'11.23773"	P-1289	26	20°14'15.67367"	81°56'27.53109"
P-1257	25	20°15'01.17822"	81°58'11.74997"	P-1290	26	20°14'21.93318"	81°56'25.68178"
P-1258	25	20°15'03.12171"	81°58'11.85890"	P-1291	26	20°14'28.12030"	81°56'23.57950"
P-1259	25	20°15'03.12171"	81°58'11.85890"	P-1292	26	20°14'31.18625"	81°56'26.41183"
P-1260	25	20°15'09.56088"	81°58'11.77949"	P-1293	26	20°14'26.80330"	81°56'31.44476"
P-1261	25	20°15'12.47315"	81°58'05.68269"	P-1294	26	20°14'21.05913"	81°56'34.21345"
P-1262	25	20°14'42.60121"	81°57'47.15349"	P-1295	26	20°14'19.22037"	81°56'40.49243"
P-1263	25	20°14'41.52017"	81°57'53.94507"	P-1296	26	20°14'17.48613"	81°56'46.88333"
P-1264	25	20°14'40.89396"	81°57'57.72884"	P-1297	26	20°14'15.60744"	81°56'52.77670"
P-1265	26	20°14'47.35378"	81°56'09.64015"	P-1298	26	20°14'15.60744"	81°56'52.77670"
P-1266	26	20°14'41.68531"	81°56'09.15959"	P-1299	26	20°14'13.97567"	81°56'59.44636"
P-1267	26	20°14'35.21928"	81°56'08.60872"	P-1300	26	20°14'11.82168"	81°57'05.94551"
P-1268	26	20°14'29.03045"	81°56'06.48737"	P-1301	26	20°14'09.48060"	81°57'12.37468"
P-1269	26	20°14'26.46739"	81°56'05.45794"	P-1302	26	20°14'08.85764"	81°57'14.48852"
P-1270	26	20°14'26.46739"	81°56'05.45794"	P-1303	27	20°14'20.86394"	81°51'04.86375"
P-1271	26	20°14'20.48919"	81°56'02.73978"	P-1304	27	20°14'14.71661"	81°51'02.75042"
P-1272	26	20°14'14.47907"	81°56'00.10210"	P-1305	27	20°14'08.53135"	81°51'04.06669"
P-1273	26	20°14'08.51873"	81°55'57.34088"	P-1306	27	20°14'03.60079"	81°51'08.54211"
P-1274	26	20°14'02.89249"	81°55'59.09560"	P-1307	27	20°13'58.77443"	81°51'13.16312"
P-1275	26	20°13'56.92247"	81°56'01.54888"	P-1308	27	20°13'55.93376"	81°51'19.25653"
P-1276	26	20°13'52.13727"	81°56'05.90415"	P-1309	27	20°13'50.50752"	81°51'23.02160"
P-1277	26	20°13'50.97294"	81°56'06.17202"	P-1310	27	20°13'45.01297"	81°51'26.71000"
P-1278	26	20°13'50.97294"	81°56'06.17202"	P-1311	27	20°13'40.21027"	81°51'30.19267"
P-1279	26	20°13'44.82934"	81°56'08.37713"				



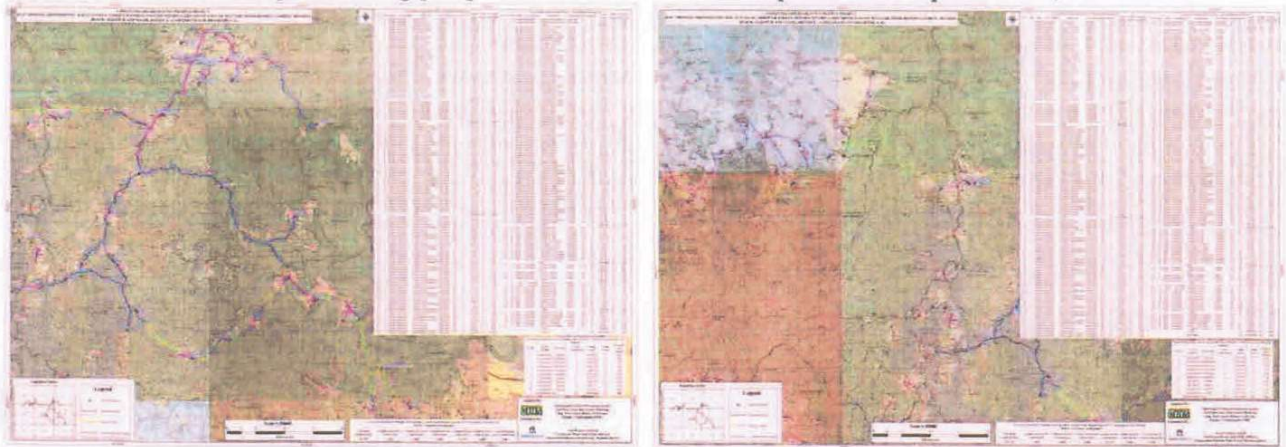
5.3. Geo-Referenced Maps of the Proposed Route (Annexure-3)

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



Geo-Referenced Maps of Forest Patched with in Udanti Sitanadi Tiger Reserve, Gariyaband Forest Division

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



Geo-Referenced Toposheet Map of Forest Patched of Udanti Sitanadi Tiger Reserve Part-1&2, Gariyaband Forest Division

Deputy Director
Udanti-Sitanadi Tiger Reserve
Gariyaband (C.G.)

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