

# **CHHATTISGARH BHARATNET PHASE-II PROJECT**

## **LIDAR/DGPS SURVEY REPORT FOR BIJAPUR FOREST DIVISION FOR DIVERSION OF PROPOSED OFC ROUTES**

Forest Division : BIJAPUR  
Forest Land (RF/PF/OA) : 8.534 Ha.  
Rev. Forest Land : 0.172 Ha.  
Total Proposed Diversion Area : 8.706 Ha.  
Block : BHAIRAMGARH AND USUR  
District : BIJAPUR (C.G.)

Applicant -



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

Submitted By -



**TATA PROJECTS**



**Tata Projects Limited, Raipur (Chhattisgarh)**

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## **1. Introduction and Background**

### **1.1. Background**

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

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

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

## 1.2. Proposed Routes

The proposed routes in Bhairamgarh and Usur block with in Bijapur Forest Division.



OFC Cable Proposed Routes in Bhairamgarh Block in Bijapur Forest Division.



OFC Cable Proposed Routes in Usur Block in Bijapur Forest Division.

### 1.3. Location

The proposed OFC Cable route in Bijapur Forest Division (The OFC route Bhairamgarh and Usur, Block; District: Bijapur). The Proposed OFC route length is approx. 111.972 Km in Bhairamgarh and 81.211 km in Usur Block hence Total route lengths is 193.183 km. The survey site passes through forest ranges Awapalli, Bhairamgarh, Bijapur, Madded and Pamed in Bijapur Forest Division. The OFC Cable route is covered under Survey of India Toposheets 65 A16, 65 B09, 65 B10, 65 B11, 65 B15, 65 E04 and 65 F01 on RF 1:50000.

### 1.4. Objectives

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

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

## **2. Scope of Work**

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

## **3. Deliverables**

The deliverables envisaged for the assignment are described below -

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

## **4. Technical Approach**

### **4.1. GCP Establishment for LiDAR (DGPS) Survey:**

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



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- when it has to be right



## GNSS Processing Report - Summary

Report created: 03/31/2019 18:47:29

### Project Details

| General               |                                           | Customer Details |   | Master Coordinate System |              |
|-----------------------|-------------------------------------------|------------------|---|--------------------------|--------------|
| Project Name:         | CHIPS                                     | Customer Name:   | - | Coordinate System Name:  | UTM44N       |
| Owner:                | GENESYS INTERNATIONAL CORPORATION LIMITED | Contact Person:  | - | Transformation Type:     | Classical 3D |
| Lead Surveyor:        | -                                         | Number:          | - | Residual Distribution:   | None         |
| Date Created:         | 07/31/2019 14:21:05                       | Email:           | - | Ellipsoid:               | WGS 1984     |
| Last Accessed:        | 07/31/2019 14:21:05                       | Skype:           | - | Projection Type:         | UTM          |
| Application Software: | Infinity 2.3                              | Website:         | - | Geoid Model:             | EGM_2008     |
|                       |                                           |                  |   | CSCS Model:              | -            |
| Path:                 | D:\INFINITY PROJECTS\CHIPS\CHIPS.jpj      |                  |   |                          |              |
| Size:                 | 5,296.3 MB                                |                  |   |                          |              |
| Comments:             | -                                         |                  |   |                          |              |

### SPP Point: 9453Base\_1

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

| Date                     | Selected          | Used              | Comments |
|--------------------------|-------------------|-------------------|----------|
| Cut-Off Angle:           | 15°               | 15°               |          |
| Frequency:               | Automatic         | L1/L2/L3/L5       |          |
| Sampling Rate:           | Use All           | 1 sec             |          |
| Satellite System:        | GPS/GLONASS/Bdoud | GPS/GLONASS/Bdoud |          |
| Ephemeris Type:          | Broadcast         | Broadcast         |          |
| Antenna Calibration Set: | Leica Relative    | Leica Relative    |          |

#### Processing Strategy

|                                           |                     |                     |
|-------------------------------------------|---------------------|---------------------|
| Solution Type:                            | Phase Fixed         | Navigated           |
| Solution Optimisation:                    | Automatic           | None                |
| Frequency to use in Ionosphere Minimised: | Automatic           | Automatic           |
| Tropospheric Model:                       | VMF with GPT2 model | VMF with GPT2 model |
| Ionospheric Model:                        | Automatic           | Computed            |
| Allow Widelane Fix:                       | Automatic           | No                  |

#### General Settings

|                                            |          |
|--------------------------------------------|----------|
| Min. Distance for Ionosphere Minimised:    | 15 km    |
| Possible Ambiguities Fix up to:            | 300 km   |
| Min. Duration for Float Solution (static): | 00:05:00 |

### Results SPP Point: 9453Base\_1

#### Acquisition

|            |                                           |
|------------|-------------------------------------------|
| Time Span: | 05/26/2019 04:43:28 - 05/26/2019 12:53:14 |
| Duration:  | 08:09:46                                  |

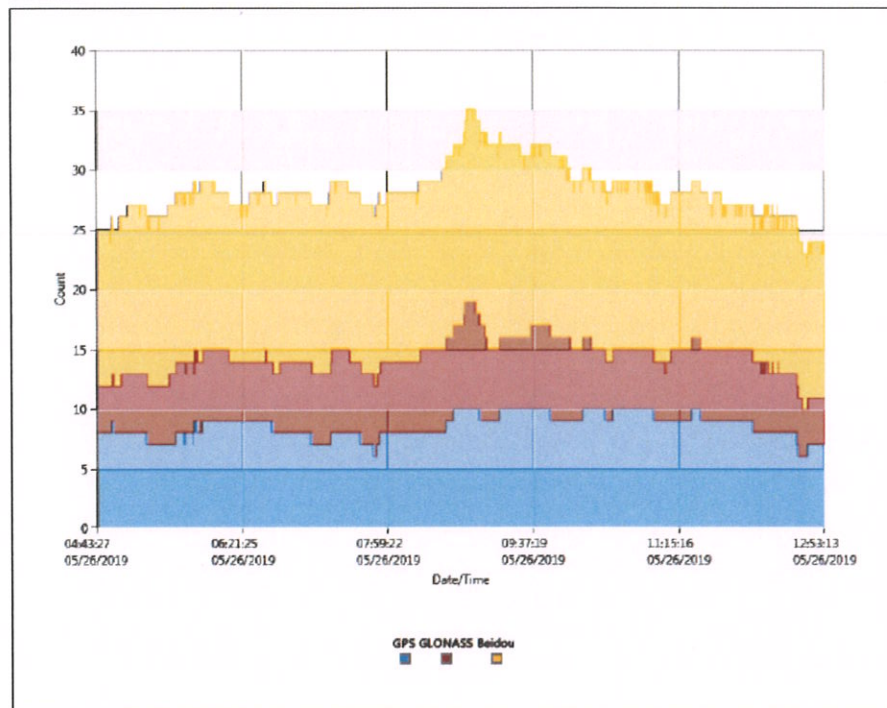
#### Antenna

|                     |                      |
|---------------------|----------------------|
| Receiver Name / SN: | LEICA GS16 / 3001653 |
| Antenna Name / SN:  | LEICA516 / -         |
| Carrier Offset:     | 0.3600 m             |
| Height Reading:     | 1.1500 m             |
| Antenna Height:     | 1.5100 m             |

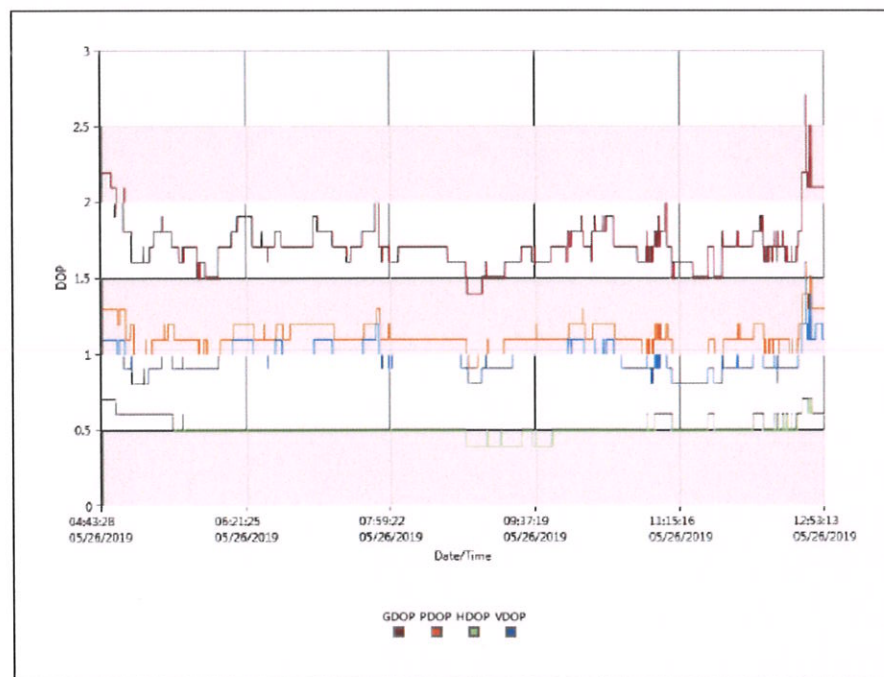
Processing Info (05/26/2019 04:43:28 - 05/26/2019 12:53:14)

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

SVs Tracked



DOP



**List of GCP's –**

| Sr.No | District | GCP No. | Latitude (D:M:S) | Longitude(D:M:S) | Easting    | Northing    |
|-------|----------|---------|------------------|------------------|------------|-------------|
| 1     | Bijapur  | GPS-C30 | N19°00'42.66891" | E81°14'26.18876" | 525322.230 | 2102156.224 |
| 2     | Bijapur  | GPS-C33 | N19°00'14.77503" | E81°06'18.77284" | 511073.567 | 2101284.881 |
| 3     | Bijapur  | GPS-C34 | N19°01'42.01550" | E80°57'50.35335" | 496210.282 | 2103963.342 |
| 4     | Bijapur  | GPS-C35 | N19°04'45.26491" | E80°49'49.43590" | 482157.944 | 2109603.880 |
| 5     | Bijapur  | GPS-C36 | N19°03'33.95907" | E80°41'37.02573" | 467764.699 | 2107431.756 |
| 6     | Bijapur  | GPS-C37 | N19°09'42.21290" | E80°43'31.18826" | 471118.976 | 2118744.935 |

**4.2. Mobile LiDAR (DGPS) data collection:**

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



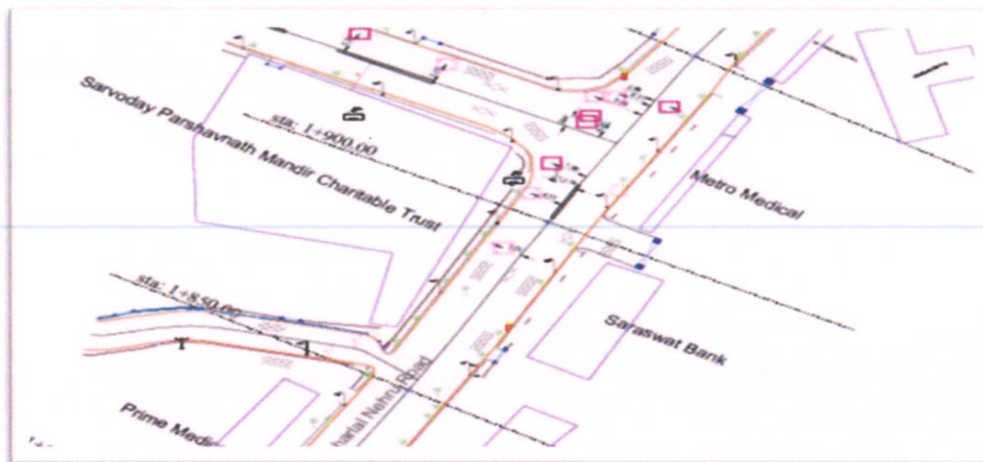
Mobile LiDAR Van

#### 4.3. DRS / GIS Map Creation Using LiDAR data:

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



Feature Extraction on LiDAR



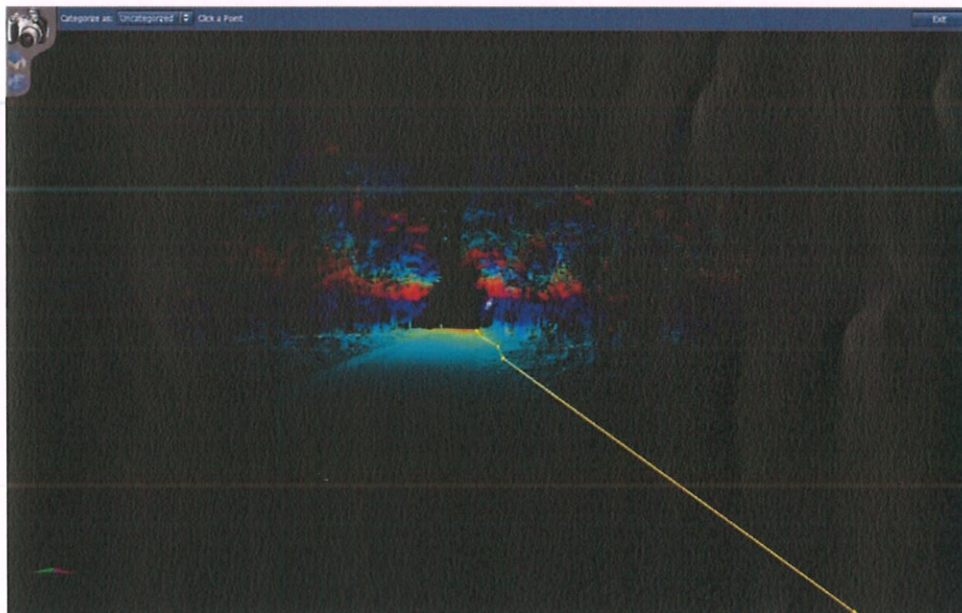
Final DRS / GIS Map

#### 4.4. Demarcation of Proposed OFC on LiDAR data:

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



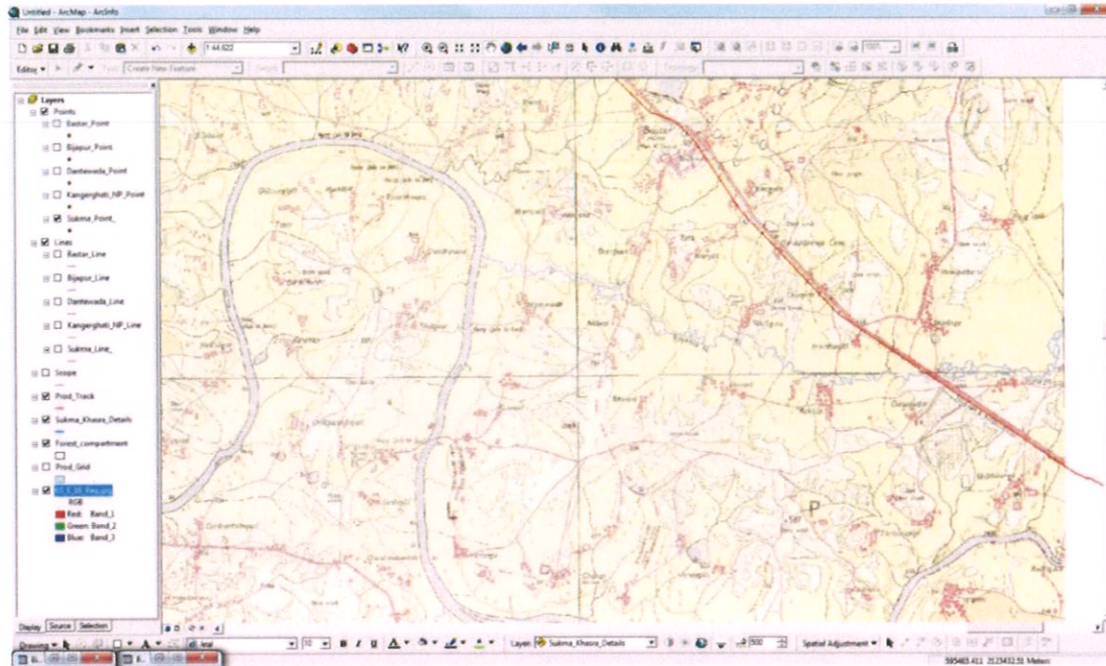
Proposed OFC Line on LiDAR Data (with Panoramic Imagery)



Proposed OFC Line on LiDAR Data only

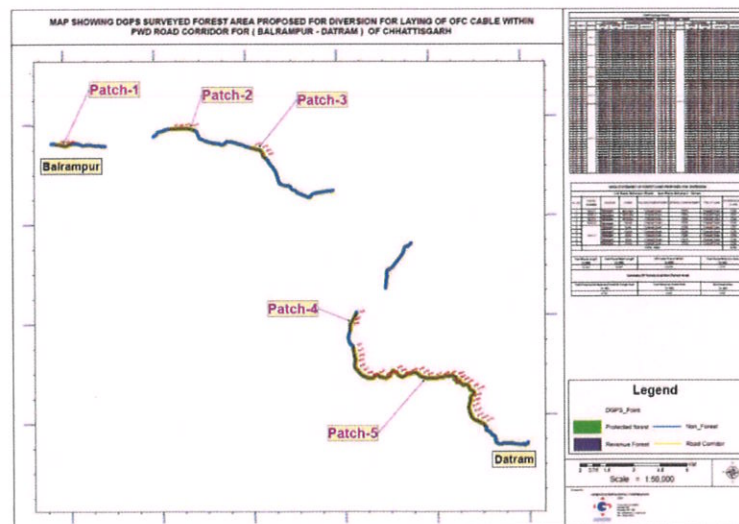
#### 4.5. Geo-referencing of Maps:

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



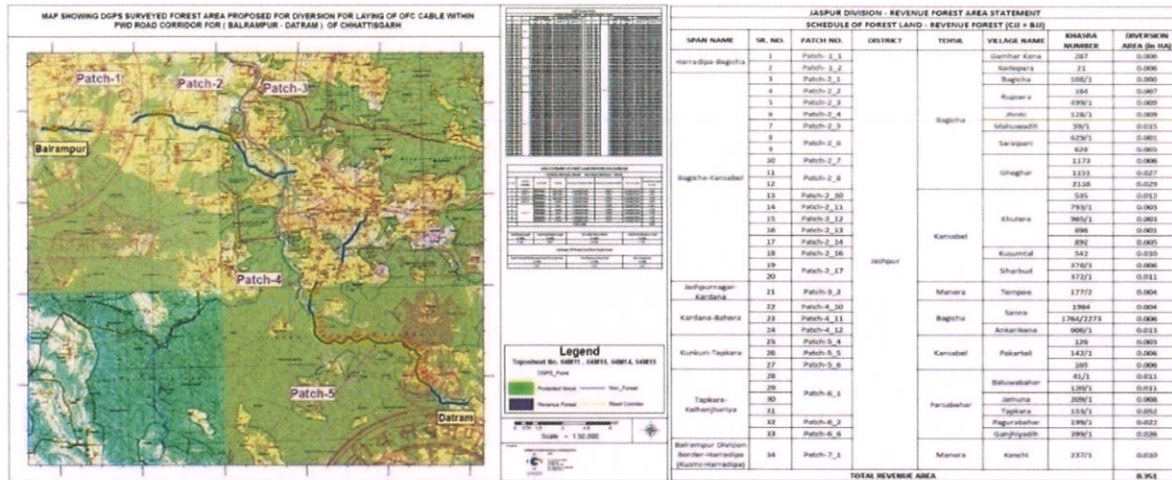
#### 4.6. Creation of Vector Data for Forest Diversion:

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



#### 4.7. Generation of Map and Survey Reports for Forest Diversion

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



Geo-referenced Map

Forest Area Statement

## 5. DGPS Survey Results

The total OFC route length is approx. 228.469 km. covered Bhairamgarh and Usur Block of Bijapur District. Out of this 54.348 km OFC route length is passing through non-forest land and 174.121 km OFC route length is passing through Forest Patches hence the proposed forest area for diversion 8.706 Ha. Forest Area Statement Report is in Annexure-1, and DGPS coordinates and forest patch boundary coordinates is in Annexure-2. The geo-referenced maps are in Annexure -3.

### 5.1. Forest Area Statement (Annexure-1)

| Forest Area Statement – Bhairamgarh and Usur Block with in Bijapur Forest Division, District - Bijapur, C.G |                                   |                                  |                                  |                                |                               |                                       |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------|----------------------------------|--------------------------------|-------------------------------|---------------------------------------|
| 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.) |
| 228.469                                                                                                     | 54.348                            | 0.0005                           | 2.717                            | 174.121                        | 0.0005                        | 8.706                                 |

| Bijapur Forest Division – Total Forest Area for Diversion Proposal |                 |              |                   |                |               |                        |
|--------------------------------------------------------------------|-----------------|--------------|-------------------|----------------|---------------|------------------------|
| Sl. No.                                                            | Forest Division | Forest range | No of Compartment | Length (in m.) | Width (in m.) | Proposed Area (In Ha.) |
| 1                                                                  | Bijapur         | Bhairamgarh  | 27                | 81293.796      | 0.5           | 4.064                  |
| 2                                                                  | Bijapur         | Bijapur      | 12                | 27017.529      | 0.5           | 1.351                  |
| 3                                                                  | Bijapur         | Madded       | 7                 | 16117.28       | 0.5           | 0.806                  |
| 4                                                                  | Bijapur         | Pamed        | 3                 | 7202.505       | 0.5           | 0.36                   |
| 5                                                                  | Bijapur         | Awapalli     | 22                | 39050.442      | 0.5           | 1.953                  |
| Total of Table A                                                   |                 |              |                   | 170681.552     | 0.5           | 8.534                  |
| Sl. No.                                                            | District        | Block        | No of Khasra      | Length (in m.) | Width (in m.) | Proposed Area (In Ha.) |
| 1                                                                  | Bijapur         | Bhairamgarh  | 10                | 2545.990       | 0.5           | 0.127                  |
| 2                                                                  | Bijapur         | Usur         | 6                 | 893.371        | 0.5           | 0.045                  |
| Total of Table B                                                   |                 |              |                   | 3439.361       | 0.5           | 0.172                  |
| Total Diversion Area (Table A+TableB)                              |                 |              |                   | 174120.913     | 0.5           | 8.706                  |



| Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area |       |             |                 |                          |              |      |          |                |               |                        |
|---------------------------------------------------------------------------------------|-------|-------------|-----------------|--------------------------|--------------|------|----------|----------------|---------------|------------------------|
| Sl. No.                                                                               | Patch | Block       | Forest Division | Route Name               | Forest Range | Type | Comp. No | Length (in m.) | Width (in m.) | Proposed Area (In Ha.) |
| 1                                                                                     | 1     | Bhairamgarh | Bijapur         | Pharaspal To Nelasnar    | Bhairamgarh  | PF   | 1996P    | 471.591        | 0.5           | 0.024                  |
| 2                                                                                     | 1     | Bhairamgarh | Bijapur         | Pharaspal To Nelasnar    | Bhairamgarh  | PF   | 1995P    | 1542.393       | 0.5           | 0.077                  |
| 3                                                                                     | 2     | Bhairamgarh | Bijapur         | Nelasnar To Badetumnar   | Bhairamgarh  | PF   | 1998P    | 228.392        | 0.5           | 0.011                  |
| 4                                                                                     | 2     | Bhairamgarh | Bijapur         | Nelasnar To Badetumnar   | Bhairamgarh  | PF   | 1997P    | 2145.41        | 0.5           | 0.107                  |
| 5                                                                                     | 4     | Bhairamgarh | Bijapur         | Bodli To Patarpara       | Bhairamgarh  | PF   | 1989P    | 2304.192       | 0.5           | 0.115                  |
| 6                                                                                     | 4     | Bhairamgarh | Bijapur         | Bodli To Patarpara       | Bhairamgarh  | PF   | 1990     | 4711.966       | 0.5           | 0.236                  |
| 7                                                                                     | 4     | Bhairamgarh | Bijapur         | Kodoli To Mangalnar      | Bhairamgarh  | PF   | 1989P    | 3514.574       | 0.5           | 0.176                  |
| 8                                                                                     | 4     | Bhairamgarh | Bijapur         | Kodoli To Mangalnar      | Bhairamgarh  | PF   | 1990     | 4731.077       | 0.5           | 0.237                  |
| 9                                                                                     | 4     | Bhairamgarh | Bijapur         | Mangalnar To Bhairamgarh | Bhairamgarh  | PF   | 1989P    | 4167.32        | 0.5           | 0.208                  |
| 10                                                                                    | 4     | Bhairamgarh | Bijapur         | Patarpara To Bhairamgarh | Bhairamgarh  | PF   | 1989P    | 3135.286       | 0.5           | 0.157                  |
| 11                                                                                    | 5     | Bhairamgarh | Bijapur         | Badetungali To Jaiwaram  | Bhairamgarh  | RF   | 1963     | 1198.58        | 0.5           | 0.060                  |
| 12                                                                                    | 5     | Bhairamgarh | Bijapur         | Badetungali To Jaiwaram  | Bhairamgarh  | RF   | 1964     | 2312.267       | 0.5           | 0.116                  |
| 13                                                                                    | 5     | Bhairamgarh | Bijapur         | Badetungali To Jaiwaram  | Bhairamgarh  | RF   | 1965     | 5129.731       | 0.5           | 0.256                  |
| 14                                                                                    | 5     | Bhairamgarh | Bijapur         | Bhairamgarh To Tindodi   | Bhairamgarh  | RF   | 101      | 2093.144       | 0.5           | 0.105                  |
| 15                                                                                    | 5     | Bhairamgarh | Bijapur         | Bhairamgarh To Tindodi   | Bhairamgarh  | RF   | 100      | 8555.335       | 0.5           | 0.428                  |
| 16                                                                                    | 5     | Bhairamgarh | Bijapur         | Jaiwaram To Gadamali     | Bhairamgarh  | RF   | 1965     | 1150.534       | 0.5           | 0.057                  |
| 17                                                                                    | 5     | Bhairamgarh | Bijapur         | Jaiwaram To Gadamali     | Bhairamgarh  | RF   | 1966     | 4547.472       | 0.5           | 0.227                  |
| 18                                                                                    | 5     | Bhairamgarh | Bijapur         | Jangla To Badetungali    | Bhairamgarh  | OA   | OA 1084  | 1388.527       | 0.5           | 0.069                  |
| 19                                                                                    | 5     | Bhairamgarh | Bijapur         | Jangla To Badetungali    | Bhairamgarh  | OA   | OA 1083  | 1564.556       | 0.5           | 0.078                  |
| 20                                                                                    | 5     | Bhairamgarh | Bijapur         | Jangla To Badetungali    | Bhairamgarh  | RF   | 1963     | 4113.283       | 0.5           | 0.206                  |

# Chhattisgarh BharatNet Phase-II Project

| Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area |       |             |                 |                         |              |      |          |                |               |                        |
|---------------------------------------------------------------------------------------|-------|-------------|-----------------|-------------------------|--------------|------|----------|----------------|---------------|------------------------|
| Sl. No.                                                                               | Patch | Block       | Forest Division | Route Name              | Forest Range | Type | Comp. No | Length (in m.) | Width (in m.) | Proposed Area (In Ha.) |
| 21                                                                                    | 5     | Bhairamgarh | Bijapur         | Matwada To Jangla       | Bhairamgarh  | PF   | 1972P    | 615.357        | 0.5           | 0.031                  |
| 22                                                                                    | 5     | Bhairamgarh | Bijapur         | Matwada To Jangla       | Bhairamgarh  | PF   | 1970P    | 2023.643       | 0.5           | 0.101                  |
| 23                                                                                    | 5     | Bhairamgarh | Bijapur         | Matwada To Jangla       | Bhairamgarh  | PF   | 1971P    | 2297.726       | 0.5           | 0.115                  |
| 24                                                                                    | 5     | Bhairamgarh | Bijapur         | Matwada To Jangla       | Bhairamgarh  | OA   | OA 1084  | 2483.336       | 0.5           | 0.124                  |
| 25                                                                                    | 5     | Bhairamgarh | Bijapur         | Tindodi To Matwada      | Bhairamgarh  | RF   | 101      | 3427.896       | 0.5           | 0.171                  |
| 26                                                                                    | 5     | Bhairamgarh | Bijapur         | Tindodi To Matwada      | Bhairamgarh  | PF   | 1972P    | 4982.013       | 0.5           | 0.249                  |
| 27                                                                                    | 5     | Bhairamgarh | Bijapur         | Tindodi To Matwada      | Bhairamgarh  | RF   | 102      | 6458.195       | 0.5           | 0.323                  |
| Total -                                                                               |       |             |                 |                         |              |      | 27       | 81293.796      | 0.5           | 4.064                  |
| 28                                                                                    | 6     | Usur        | Bijapur         | Nukanpal To Murkinar    | Bijapur      | OA   | OA 1094  | 1345.578       | 0.5           | 0.067                  |
| 29                                                                                    | 6     | Usur        | Bijapur         | Nukanpal To Murkinar    | Bijapur      | OA   | OA 1138  | 2421.970       | 0.5           | 0.122                  |
| 30                                                                                    | 6     | Usur        | Bijapur         | Nukanpal To Murkinar    | Bijapur      | PF   | P193     | 2900.314       | 0.5           | 0.145                  |
| 31                                                                                    | 6     | Usur        | Bijapur         | Nukanpal To Murkinar    | Bijapur      | PF   | P192     | 3436.747       | 0.5           | 0.172                  |
| 32                                                                                    | 7     | Usur        | Bijapur         | Nukanpal To Murkinar    | Bijapur      | RF   | 211      | 1690.056       | 0.5           | 0.085                  |
| 33                                                                                    | 7     | Usur        | Bijapur         | Nukanpal To Murkinar    | Bijapur      | RF   | 209      | 1822.748       | 0.5           | 0.090                  |
| 34                                                                                    | 7     | Usur        | Bijapur         | Nukanpal To Murkinar    | Bijapur      | RF   | 213      | 2092.025       | 0.5           | 0.105                  |
| 35                                                                                    | 7     | Usur        | Bijapur         | Nukanpal To Murkinar    | Bijapur      | RF   | 212      | 3729.475       | 0.5           | 0.185                  |
| 36                                                                                    | 8     | Usur        | Bijapur         | Murkinar To Sankanpalli | Bijapur      | PF   | P185     | 1342.503       | 0.5           | 0.067                  |
| 37                                                                                    | 14    | Usur        | Bijapur         | Murkinar To Sankanpalli | Bijapur      | OA   | OA 1120  | 893.134        | 0.5           | 0.045                  |
| 38                                                                                    | 14    | Usur        | Bijapur         | Murkinar To Sankanpalli | Bijapur      | OA   | OA 1123  | 2250.065       | 0.5           | 0.113                  |
| 39                                                                                    | 14    | Usur        | Bijapur         | Nukanpal To Murkinar    | Bijapur      | OA   | OA 1120  | 3092.914       | 0.5           | 0.155                  |
| Total -                                                                               |       |             |                 |                         |              |      | 12       | 27017.529      | 0.5           | 1.351                  |

*Chhattisgarh BharatNet Phase-II Project*

| Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area |       |       |                 |                         |              |      |          |                |               |                        |
|---------------------------------------------------------------------------------------|-------|-------|-----------------|-------------------------|--------------|------|----------|----------------|---------------|------------------------|
| Sl. No.                                                                               | Patch | Block | Forest Division | Route Name              | Forest Range | Type | Comp. No | Length (in m.) | Width (in m.) | Proposed Area (in Ha.) |
| 40                                                                                    | 9     | Usur  | Bijapur         | Murkinar To Sankanpalli | Madded       | PF   | P683     | 913.974        | 0.5           | 0.046                  |
| 41                                                                                    | 9     | Usur  | Bijapur         | Murkinar To Sankanpalli | Madded       | RF   | 692      | 1904.767       | 0.5           | 0.095                  |
| 42                                                                                    | 9     | Usur  | Bijapur         | Murkinar To Sankanpalli | Madded       | PF   | P681     | 1920.110       | 0.5           | 0.096                  |
| 43                                                                                    | 9     | Usur  | Bijapur         | Murkinar To Sankanpalli | Madded       | RF   | 691      | 2859.030       | 0.5           | 0.143                  |
| 44                                                                                    | 9     | Usur  | Bijapur         | Murkinar To Sankanpalli | Madded       | PF   | P682     | 5662.291       | 0.5           | 0.283                  |
| 45                                                                                    | 10    | Usur  | Bijapur         | Ilmidi To Engpalli      | Madded       | RF   | 685      | 34.103         | 0.5           | 0.002                  |
| 46                                                                                    | 10    | Usur  | Bijapur         | Sankanpalli To Engpalli | Madded       | RF   | 685      | 2823.005       | 0.5           | 0.141                  |
| Total -                                                                               |       |       |                 |                         |              |      | 7        | 16117.280      | 0.5           | 0.806                  |
| 47                                                                                    | 13    | Usur  | Bijapur         | Usur To Usoor           | Pamed        | PF   | P921     | 2586.529       | 0.5           | 0.129                  |
| 48                                                                                    | 13    | Usur  | Bijapur         | Usur To Usoor           | Pamed        | PF   | P920     | 3381.317       | 0.5           | 0.169                  |
| 49                                                                                    | 13    | Usur  | Bijapur         | Usur To Usoor           | Pamed        | PF   | P918     | 1234.659       | 0.5           | 0.062                  |
| Total -                                                                               |       |       |                 |                         |              |      | 3        | 7202.505       | 0.5           | 0.360                  |
| 50                                                                                    | 11    | Usur  | Bijapur         | Engpalli To Ilmidi      | Awapalli     | PF   | P512     | 999.678        | 0.5           | 0.050                  |
| 51                                                                                    | 11    | Usur  | Bijapur         | Engpalli To Ilmidi      | Awapalli     | OA   | OA 1222  | 1782.921       | 0.5           | 0.089                  |
| 52                                                                                    | 11    | Usur  | Bijapur         | Engpalli To Ilmidi      | Awapalli     | RF   | 521      | 2039.155       | 0.5           | 0.102                  |
| 53                                                                                    | 11    | Usur  | Bijapur         | Engpalli To Ilmidi      | Awapalli     | PF   | P511     | 2084.800       | 0.5           | 0.104                  |
| 54                                                                                    | 11    | Usur  | Bijapur         | Semaldodi To Ilmidi     | Awapalli     | OA   | OA 1222  | 517.686        | 0.5           | 0.026                  |
| 55                                                                                    | 12    | Usur  | Bijapur         | Semaldodi To Ilmidi     | Awapalli     | RF   | 535      | 2123.274       | 0.5           | 0.106                  |
| 56                                                                                    | 12    | Usur  | Bijapur         | Semaldodi To Ilmidi     | Awapalli     | RF   | 496      | 2400.652       | 0.5           | 0.120                  |
| 57                                                                                    | 12    | Usur  | Bijapur         | Usoor To Semaldodi      | Awapalli     | RF   | 538      | 296.639        | 0.5           | 0.015                  |
| 58                                                                                    | 12    | Usur  | Bijapur         | Usoor To Semaldodi      | Awapalli     | OA   | OA 1204  | 1630.952       | 0.5           | 0.082                  |

*Chhattisgarh BharatNet Phase-II Project*

| Table A - Area statement for proposed forest Patches – Protected /Reserve/Orange Area |       |       |                 |                      |              |      |          |                |               |                        |
|---------------------------------------------------------------------------------------|-------|-------|-----------------|----------------------|--------------|------|----------|----------------|---------------|------------------------|
| Sl. No.                                                                               | Patch | Block | Forest Division | Route Name           | Forest Range | Type | Comp. No | Length (in m.) | Width (in m.) | Proposed Area (in Ha.) |
| 59                                                                                    | 12    | Usur  | Bijapur         | Usoor To Semaldodi   | Awapalli     | RF   | 539      | 2175.155       | 0.5           | 0.109                  |
| 60                                                                                    | 12    | Usur  | Bijapur         | Usoor To Semaldodi   | Awapalli     | RF   | 535      | 2446.469       | 0.5           | 0.122                  |
| 61                                                                                    | 12    | Usur  | Bijapur         | Usoor To Semaldodi   | Awapalli     | PF   | P483     | 2750.249       | 0.5           | 0.138                  |
| 62                                                                                    | 13    | Usur  | Bijapur         | Nukanpal To Usur     | Awapalli     | PF   | P489     | 277.979        | 0.5           | 0.014                  |
| 63                                                                                    | 13    | Usur  | Bijapur         | Usur To Usoor        | Awapalli     | PF   | P489     | 3393.844       | 0.5           | 0.170                  |
| 64                                                                                    | 14    | Usur  | Bijapur         | Murkinar To Nukanpal | Awapalli     | OA   | OA 1213  | 458.618        | 0.5           | 0.023                  |
| 65                                                                                    | 14    | Usur  | Bijapur         | Murkinar To Nukanpal | Awapalli     | OA   | OA 1211  | 486.245        | 0.5           | 0.024                  |
| 66                                                                                    | 14    | Usur  | Bijapur         | Murkinar To Nukanpal | Awapalli     | RF   | 460      | 1481.604       | 0.5           | 0.074                  |
| 67                                                                                    | 14    | Usur  | Bijapur         | Murkinar To Nukanpal | Awapalli     | OA   | OA 1214  | 1803.309       | 0.5           | 0.090                  |
| 68                                                                                    | 14    | Usur  | Bijapur         | Murkinar To Nukanpal | Awapalli     | OA   | OA 1215  | 3076.599       | 0.5           | 0.154                  |
| 69                                                                                    | 14    | Usur  | Bijapur         | Nukanpal To Usur     | Awapalli     | OA   | OA 1211  | 888.531        | 0.5           | 0.044                  |
| 70                                                                                    | 14    | Usur  | Bijapur         | Nukanpal To Usur     | Awapalli     | OA   | OA 1210  | 2205.581       | 0.5           | 0.110                  |
| 71                                                                                    | 14    | Usur  | Bijapur         | Nukanpal To Usur     | Awapalli     | OA   | OA 1205  | 3730.502       | 0.5           | 0.187                  |
| Total-                                                                                |       |       |                 |                      |              |      | 22       | 39050.442      | 0.5           | 1.953                  |
| Grand Total-                                                                          |       |       |                 |                      |              |      | 71       | 170681.552     | 0.5           | 8.534                  |



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Bijapur

*Chhattisgarh BharatNet Phase-II Project*

| Table B - A area statement ent for proposed forest Patches – Revenue Forest land (Chhote / Bade Jhad ka Jangal) |       |          |             |                         |             |      |           |                |               |                        |
|-----------------------------------------------------------------------------------------------------------------|-------|----------|-------------|-------------------------|-------------|------|-----------|----------------|---------------|------------------------|
| Sl No.                                                                                                          | Patch | District | Block       | Route Name              | Village     | Type | Khasra No | Length (in m.) | Width (in m.) | Proposed Area (in Ha.) |
| 1                                                                                                               | 3     | Bijapur  | Bhairamgarh | Phulgatta To Mirtur     | Fulgatta    | BJJ  | 6/1       | 51.244         | 0.5           | 0.003                  |
| 2                                                                                                               | 3     | Bijapur  | Bhairamgarh | Phulgatta To Mirtur     | Fulgatta    | BJJ  | 477       | 58.823         | 0.5           | 0.003                  |
| 3                                                                                                               | 3     | Bijapur  | Bhairamgarh | Phulgatta To Mirtur     | Fulgatta    | CJJ  | 456       | 58.823         | 0.5           | 0.003                  |
| 4                                                                                                               | 3     | Bijapur  | Bhairamgarh | Phulgatta To Mirtur     | Fulgatta    | BJJ  | 481       | 170.100        | 0.5           | 0.008                  |
| 5                                                                                                               | 3     | Bijapur  | Bhairamgarh | Phulgatta To Mirtur     | Fulgatta    | BJJ  | 5         | 250.142        | 0.5           | 0.013                  |
| 6                                                                                                               | 3     | Bijapur  | Bhairamgarh | Phulgatta To Mirtur     | Fulgatta    | BJJ  | 3         | 297.606        | 0.5           | 0.015                  |
| 7                                                                                                               | 3     | Bijapur  | Bhairamgarh | Phulgatta To Mirtur     | Fulgatta    | BJJ  | 2/1       | 714.140        | 0.5           | 0.036                  |
| 8                                                                                                               | 3     | Bijapur  | Bhairamgarh | Phulgatta To Mirtur     | Mirtur      | CJJ  | 354/1     | 587.295        | 0.5           | 0.028                  |
| 9                                                                                                               | 4     | Bijapur  | Bhairamgarh | Bhairamgarh To Tindodi  | Bhairamgarh | BJJ  | 424/1     | 133.738        | 0.5           | 0.007                  |
| 10                                                                                                              | 5     | Bijapur  | Bhairamgarh | Bhairamgarh To Tindodi  | Bhairamgarh | BJJ  | 570       | 224.079        | 0.5           | 0.011                  |
| Total Aea-                                                                                                      |       |          |             |                         |             |      | 10        | 2545.990       | 0.5           | 0.127                  |
| 11                                                                                                              | 10    | Bijapur  | USUR        | Engpalli To Sankanpalli | Sankanpalli | CJJ  | 484       | 14.309         | 0.5           | 0.001                  |
| 12                                                                                                              | 10    | Bijapur  | USUR        | Engpalli To Sankanpalli | Sankanpalli | CJJ  | 474       | 24.488         | 0.5           | 0.001                  |
| 13                                                                                                              | 11    | Bijapur  | USUR        | Ilmidi To Semaldodi     | Ilmidi      | CJJ  | 241       | 24.425         | 0.5           | 0.001                  |
| 14                                                                                                              | 11    | Bijapur  | USUR        | Ilmidi To Engpalli      | Ilmidi      | CJJ  | 87        | 55.876         | 0.5           | 0.003                  |
| 15                                                                                                              | 13    | Bijapur  | USUR        | Usur To Usoor           | Usur        | CJJ  | 403/1     | 74.392         | 0.5           | 0.004                  |
| 16                                                                                                              | 13    | Bijapur  | USUR        | Usur To Usoor           | Usur        | CJJ  | 401/1     | 699.881        | 0.5           | 0.035                  |
| Total Aea                                                                                                       |       |          |             |                         |             |      | 6         | 893.371        | 0.5           | 0.045                  |
| Grand Total-                                                                                                    |       |          |             |                         |             |      | 16        | 3439.361       | 0.5           | 0.172                  |



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

| Point | Patch | Latitud in D:M:S | Longitud in D:M:S | Point | Patch | Latitud in D:M:S | Longitud in D:M:S |
|-------|-------|------------------|-------------------|-------|-------|------------------|-------------------|
| P-1   | 1     | 18°57'42.25890"  | 81°13'44.06594"   | P-51  | 3     | 18°54'25.94959"  | 81°09'52.55081"   |
| P-2   | 1     | 18°57'46.86792"  | 81°13'46.59543"   | P-52  | 4     | 18°59'45.93291"  | 81°08'48.54098"   |
| P-3   | 1     | 18°57'51.62504"  | 81°13'41.93999"   | P-53  | 4     | 18°59'49.83332"  | 81°08'43.06608"   |
| P-4   | 1     | 18°57'55.56322"  | 81°13'36.49836"   | P-54  | 4     | 18°59'53.61769"  | 81°08'37.50165"   |
| P-5   | 1     | 18°57'57.12890"  | 81°13'30.08654"   | P-55  | 4     | 18°59'57.50901"  | 81°08'32.01883"   |
| P-6   | 1     | 18°57'55.97487"  | 81°13'19.44396"   | P-56  | 4     | 19°00'01.42818"  | 81°08'26.55807"   |
| P-7   | 1     | 18°57'55.96849"  | 81°13'12.66350"   | P-57  | 4     | 19°00'05.38640"  | 81°08'21.12847"   |
| P-8   | 1     | 18°57'55.74652"  | 81°13'05.88765"   | P-58  | 4     | 19°00'09.40545"  | 81°08'15.74835"   |
| P-9   | 1     | 18°57'55.86972"  | 81°13'01.02575"   | P-59  | 4     | 19°00'13.36079"  | 81°08'10.31659"   |
| P-10  | 1     | 18°57'55.86972"  | 81°13'01.02575"   | P-60  | 4     | 19°00'17.19909"  | 81°08'04.79244"   |
| P-11  | 1     | 18°57'57.68898"  | 81°12'54.54314"   | P-61  | 4     | 19°00'18.65482"  | 81°07'58.37693"   |
| P-12  | 1     | 18°58'00.75903"  | 81°12'48.58739"   | P-62  | 4     | 19°00'18.19480"  | 81°07'51.55303"   |
| P-13  | 1     | 18°58'02.47279"  | 81°12'46.94536"   | P-63  | 4     | 19°00'17.71301"  | 81°07'44.73076"   |
| P-14  | 2     | 19°00'37.30249"  | 81°11'29.66751"   | P-64  | 4     | 19°00'17.22805"  | 81°07'37.90874"   |
| P-15  | 2     | 19°00'42.44873"  | 81°11'31.13091"   | P-65  | 4     | 19°00'16.68967"  | 81°07'31.09124"   |
| P-16  | 2     | 19°00'42.93198"  | 81°11'31.95756"   | P-66  | 4     | 19°00'16.13485"  | 81°07'24.27554"   |
| P-17  | 2     | 19°00'47.04686"  | 81°12'16.42601"   | P-67  | 4     | 19°00'15.64867"  | 81°07'17.45363"   |
| P-18  | 2     | 19°00'48.35381"  | 81°12'23.11338"   | P-68  | 4     | 19°00'15.15930"  | 81°07'10.63198"   |
| P-19  | 2     | 19°00'50.31201"  | 81°12'29.62228"   | P-69  | 4     | 19°00'14.66944"  | 81°07'03.81038"   |
| P-20  | 2     | 19°00'51.64347"  | 81°12'36.31439"   | P-70  | 4     | 19°00'14.14851"  | 81°06'56.99132"   |
| P-21  | 2     | 19°00'53.60761"  | 81°12'42.79188"   | P-71  | 4     | 19°00'13.63115"  | 81°06'50.17288"   |
| P-22  | 2     | 19°00'55.53207"  | 81°12'49.31755"   | P-72  | 4     | 19°00'13.07386"  | 81°06'43.35722"   |
| P-23  | 2     | 19°00'58.10367"  | 81°12'55.56738"   | P-73  | 4     | 19°00'12.57990"  | 81°06'36.53599"   |
| P-24  | 2     | 19°01'00.37321"  | 81°13'01.96561"   | P-74  | 4     | 19°00'12.12897"  | 81°06'29.71151"   |
| P-25  | 2     | 19°01'00.88792"  | 81°13'08.64051"   | P-75  | 4     | 19°00'13.04607"  | 81°06'23.09784"   |
| P-26  | 2     | 19°00'57.27037"  | 81°13'14.09249"   | P-76  | 4     | 19°00'14.38788"  | 81°06'19.55035"   |
| P-27  | 2     | 19°00'51.41292"  | 81°13'12.63557"   | P-77  | 4     | 19°00'14.62349"  | 81°06'18.55124"   |
| P-28  | 2     | 19°00'46.90216"  | 81°13'11.15809"   | P-78  | 4     | 19°00'13.82562"  | 81°06'12.45168"   |
| P-29  | 3     | 18°52'53.49315"  | 81°09'54.64627"   | P-79  | 4     | 19°00'11.74485"  | 81°06'07.85735"   |
| P-30  | 3     | 18°53'03.13108"  | 81°09'52.88055"   | P-80  | 4     | 19°00'06.16340"  | 81°06'04.36052"   |

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| Point | Patch | Latitud in D:M:S | Longitud in D:M:S | Point | Patch | Latitud in D:M:S | Longitud in D:M:S |
|-------|-------|------------------|-------------------|-------|-------|------------------|-------------------|
| P-31  | 3     | 18°53'09.52850"  | 81°09'52.21631"   | P-81  | 4     | 19°00'01.73943"  | 81°05'59.52678"   |
| P-32  | 3     | 18°52'53.92179"  | 81°09'54.56368"   | P-82  | 4     | 18°59'56.10757"  | 81°05'56.14186"   |
| P-33  | 3     | 18°55'08.69537"  | 81°09'47.81879"   | P-83  | 4     | 18°59'49.87747"  | 81°05'54.43405"   |
| P-34  | 3     | 18°55'07.33992"  | 81°09'47.92968"   | P-84  | 4     | 18°59'43.55024"  | 81°05'53.09587"   |
| P-35  | 3     | 18°55'10.63349"  | 81°09'47.53319"   | P-85  | 4     | 18°59'37.31316"  | 81°05'51.51779"   |
| P-36  | 3     | 18°55'12.57629"  | 81°09'47.00487"   | P-86  | 4     | 18°59'32.00249"  | 81°05'47.68874"   |
| P-37  | 3     | 18°55'08.69537"  | 81°09'47.81879"   | P-87  | 4     | 18°59'26.46549"  | 81°05'44.12929"   |
| P-38  | 3     | 18°54'52.16924"  | 81°09'50.57851"   | P-88  | 4     | 18°59'20.39234"  | 81°05'41.89767"   |
| P-39  | 3     | 18°54'58.54340"  | 81°09'49.39648"   | P-89  | 4     | 18°59'18.63693"  | 81°05'43.00053"   |
| P-40  | 3     | 18°55'01.63035"  | 81°09'48.63805"   | P-90  | 4     | 19°00'14.70954"  | 81°06'18.90133"   |
| P-41  | 3     | 18°54'43.35065"  | 81°09'50.48953"   | P-91  | 4     | 19°00'12.26986"  | 81°06'25.19520"   |
| P-42  | 3     | 18°54'49.80245"  | 81°09'50.52340"   | P-92  | 4     | 19°00'12.40802"  | 81°06'32.00142"   |
| P-43  | 3     | 18°54'51.43309"  | 81°09'50.57112"   | P-93  | 4     | 19°00'12.95673"  | 81°06'38.81773"   |
| P-44  | 3     | 18°54'38.39247"  | 81°09'52.34360"   | P-94  | 4     | 19°00'13.41804"  | 81°06'45.64036"   |
| P-45  | 3     | 18°54'32.12802"  | 81°09'54.16980"   | P-95  | 4     | 19°00'13.98490"  | 81°06'52.45504"   |
| P-46  | 3     | 18°54'31.06635"  | 81°09'54.36792"   | P-96  | 4     | 19°00'14.46098"  | 81°06'59.27692"   |
| P-47  | 3     | 18°54'15.26568"  | 81°09'49.50133"   | P-97  | 4     | 19°00'14.98737"  | 81°07'06.09551"   |
| P-48  | 3     | 18°54'24.06716"  | 81°09'52.80387"   | P-98  | 4     | 19°00'15.42690"  | 81°07'12.92080"   |
| P-49  | 3     | 18°54'25.94959"  | 81°09'52.55081"   | P-99  | 4     | 19°00'15.98515"  | 81°07'19.73656"   |
| P-50  | 3     | 18°54'24.06716"  | 81°09'52.80387"   | P-100 | 4     | 19°00'16.48458"  | 81°07'26.55740"   |
| P-101 | 4     | 19°00'17.05156"  | 81°07'33.37239"   | P-151 | 4     | 19°00'27.49854"  | 81°05'01.70302"   |
| P-102 | 4     | 19°00'17.52516"  | 81°07'40.19491"   | P-152 | 4     | 19°00'24.66425"  | 81°04'56.91845"   |
| P-103 | 4     | 19°00'18.03040"  | 81°07'47.01530"   | P-153 | 4     | 19°00'22.97733"  | 81°04'50.42736"   |
| P-104 | 4     | 19°00'18.50705"  | 81°07'53.83782"   | P-154 | 4     | 19°00'23.37847"  | 81°04'43.59925"   |
| P-105 | 4     | 19°00'18.85091"  | 81°08'00.66664"   | P-155 | 4     | 19°00'23.69593"  | 81°04'37.88085"   |
| P-106 | 4     | 19°00'16.12575"  | 81°08'06.69007"   | P-156 | 4     | 18°59'18.63693"  | 81°05'43.00053"   |
| P-107 | 4     | 19°00'12.18634"  | 81°08'12.13474"   | P-157 | 4     | 18°59'22.98908"  | 81°05'42.41717"   |
| P-108 | 4     | 19°00'08.28003"  | 81°08'17.60529"   | P-158 | 4     | 18°59'27.94447"  | 81°05'41.87505"   |
| P-109 | 4     | 19°00'04.39130"  | 81°08'23.09020"   | P-159 | 4     | 18°59'33.03321"  | 81°05'37.71446"   |
| P-110 | 4     | 19°00'00.41605"  | 81°08'28.50579"   | P-160 | 4     | 18°59'37.90594"  | 81°05'33.69255"   |
| P-111 | 4     | 18°59'56.46814"  | 81°08'33.94369"   | P-161 | 4     | 18°59'40.96089"  | 81°05'27.80837"   |
| P-112 | 4     | 18°59'52.53444"  | 81°08'39.39297"   | P-162 | 4     | 18°59'44.94957"  | 81°05'22.77643"   |

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| Point | Patch | Latitud in D:M:S | Longitud in D:M:S | Point | Patch | Latitud in D:M:S | Longitud in D:M:S |
|-------|-------|------------------|-------------------|-------|-------|------------------|-------------------|
| P-113 | 4     | 18°59'48.73112"  | 81°08'44.94314"   | P-163 | 4     | 18°59'49.24792"  | 81°05'18.28010"   |
| P-114 | 4     | 18°59'46.14452"  | 81°08'48.50765"   | P-164 | 4     | 18°59'53.74800"  | 81°05'13.46862"   |
| P-115 | 4     | 19°01'29.55479"  | 81°05'44.83747"   | P-165 | 4     | 18°59'58.86416"  | 81°05'09.36168"   |
| P-116 | 4     | 19°01'27.11875"  | 81°05'51.11132"   | P-166 | 4     | 19°00'04.56231"  | 81°05'06.86220"   |
| P-117 | 4     | 19°01'23.75023"  | 81°05'56.88030"   | P-167 | 4     | 19°00'10.83410"  | 81°05'05.11948"   |
| P-118 | 4     | 19°01'19.06069"  | 81°06'01.01769"   | P-168 | 4     | 19°00'15.48778"  | 81°05'00.35897"   |
| P-119 | 4     | 19°01'13.31089"  | 81°06'03.80022"   | P-169 | 4     | 19°00'19.82737"  | 81°04'55.27538"   |
| P-120 | 4     | 19°01'07.51816"  | 81°06'02.45671"   | P-170 | 4     | 19°00'22.83499"  | 81°04'49.62393"   |
| P-121 | 4     | 19°01'01.07962"  | 81°06'02.41041"   | P-171 | 4     | 19°00'23.24064"  | 81°04'42.79705"   |
| P-122 | 4     | 19°00'54.61458"  | 81°06'01.74770"   | P-172 | 4     | 19°00'23.48300"  | 81°04'38.17659"   |
| P-123 | 4     | 19°00'48.14426"  | 81°06'01.39742"   | P-173 | 4     | 19°00'25.35040"  | 81°04'32.63082"   |
| P-124 | 4     | 19°00'41.89440"  | 81°06'00.04050"   | P-174 | 4     | 19°00'25.30854"  | 81°04'32.53824"   |
| P-125 | 4     | 19°00'37.62950"  | 81°05'55.48246"   | P-175 | 5     | 18°57'20.44008"  | 80°53'23.27410"   |
| P-126 | 4     | 19°00'33.80465"  | 81°05'49.98157"   | P-176 | 5     | 18°57'23.51859"  | 80°53'29.29929"   |
| P-127 | 4     | 19°00'27.60811"  | 81°05'48.20201"   | P-177 | 5     | 18°57'26.56096"  | 80°53'35.34455"   |
| P-128 | 4     | 19°00'22.08495"  | 81°05'49.67731"   | P-178 | 5     | 18°57'29.60075"  | 80°53'41.39153"   |
| P-129 | 4     | 19°00'19.99200"  | 81°05'56.15476"   | P-179 | 5     | 18°57'32.70445"  | 80°53'47.40239"   |
| P-130 | 4     | 19°00'18.05153"  | 81°06'02.68452"   | P-180 | 5     | 18°57'35.82472"  | 80°53'53.40368"   |
| P-131 | 4     | 19°00'15.89793"  | 81°06'09.13322"   | P-181 | 5     | 18°57'38.91601"  | 80°53'59.42183"   |
| P-132 | 4     | 19°00'13.26316"  | 81°06'15.15341"   | P-182 | 5     | 18°57'42.02280"  | 80°54'05.43124"   |
| P-133 | 4     | 19°00'14.76757"  | 81°06'18.60913"   | P-183 | 5     | 18°57'45.12954"  | 80°54'11.44072"   |
| P-134 | 4     | 19°01'29.55479"  | 81°05'44.83747"   | P-184 | 5     | 18°57'48.30390"  | 80°54'17.41085"   |
| P-135 | 4     | 19°01'29.52625"  | 81°05'40.54359"   | P-185 | 5     | 18°57'51.89467"  | 80°54'23.03930"   |
| P-136 | 4     | 19°01'24.93389"  | 81°05'37.26055"   | P-186 | 5     | 18°57'57.96797"  | 80°54'25.40849"   |
| P-137 | 4     | 19°01'18.54657"  | 81°05'35.98868"   | P-187 | 5     | 18°58'04.24726"  | 80°54'27.20255"   |
| P-138 | 4     | 19°01'12.18574"  | 81°05'34.57461"   | P-188 | 5     | 18°58'07.70335"  | 80°54'28.06015"   |
| P-139 | 4     | 19°01'08.47536"  | 81°05'29.49084"   | P-189 | 5     | 18°58'01.42900"  | 80°54'26.24836"   |
| P-140 | 4     | 19°01'06.94285"  | 81°05'23.03404"   | P-190 | 5     | 18°57'55.14313"  | 80°54'24.48233"   |
| P-141 | 4     | 19°01'06.81970"  | 81°05'16.38171"   | P-191 | 5     | 18°57'50.11152"  | 80°54'20.54426"   |
| P-142 | 4     | 19°01'03.32241"  | 81°05'11.07855"   | P-192 | 5     | 18°57'46.90355"  | 80°54'14.59440"   |
| P-143 | 4     | 19°01'04.42894"  | 81°05'04.35640"   | P-193 | 5     | 18°57'43.76233"  | 80°54'08.60534"   |
| P-144 | 4     | 19°01'05.73991"  | 81°04'57.71661"   | P-194 | 5     | 18°57'40.65957"  | 80°54'02.59387"   |

*Chhattisgarh BharatNet Phase-II Project*

| Point | Patch | Latitud in D:M:S | Longitud in D:M:S | Point | Patch | Latitud in D:M:S | Longitud in D:M:S |
|-------|-------|------------------|-------------------|-------|-------|------------------|-------------------|
| P-145 | 4     | 19°01'03.35963"  | 81°04'51.94901"   | P-195 | 5     | 18°57'37.57770"  | 80°53'56.57032"   |
| P-146 | 4     | 19°00'57.16137"  | 81°04'53.25863"   | P-196 | 5     | 18°57'34.45897"  | 80°53'50.56783"   |
| P-147 | 4     | 19°00'50.99559"  | 81°04'54.83260"   | P-197 | 5     | 18°57'31.31261"  | 80°53'44.58129"   |
| P-148 | 4     | 19°00'44.74087"  | 81°04'53.60047"   | P-198 | 5     | 18°57'28.25907"  | 80°53'38.54223"   |
| P-149 | 4     | 19°00'38.25995"  | 81°04'54.21204"   | P-199 | 5     | 18°57'25.23018"  | 80°53'32.48925"   |
| P-150 | 4     | 19°00'32.81345"  | 81°04'57.75603"   | P-200 | 5     | 18°57'22.19577"  | 80°53'26.43929"   |
| P-201 | 5     | 18°57'21.37218"  | 80°53'22.80714"   | P-251 | 5     | 19°01'30.18444"  | 81°01'30.78338"   |
| P-202 | 5     | 18°58'09.08505"  | 80°54'28.58479"   | P-252 | 5     | 19°01'31.02931"  | 81°01'37.54612"   |
| P-203 | 5     | 18°58'15.32471"  | 80°54'30.52548"   | P-253 | 5     | 19°01'32.08712"  | 81°01'44.26693"   |
| P-204 | 5     | 18°58'21.56330"  | 80°54'32.47018"   | P-254 | 5     | 19°01'30.53838"  | 81°01'50.84365"   |
| P-205 | 5     | 18°58'27.80740"  | 80°54'34.39458"   | P-255 | 5     | 19°01'28.16297"  | 81°01'57.21284"   |
| P-206 | 5     | 18°58'34.07372"  | 80°54'36.23546"   | P-256 | 5     | 19°01'25.31039"  | 81°02'03.32980"   |
| P-207 | 5     | 18°58'39.48171"  | 80°54'39.88934"   | P-257 | 5     | 19°01'21.59887"  | 81°02'08.94948"   |
| P-208 | 5     | 18°58'42.62538"  | 80°54'41.76024"   | P-258 | 5     | 19°01'17.85162"  | 81°02'14.54256"   |
| P-209 | 5     | 18°58'37.30443"  | 80°54'37.85917"   | P-259 | 5     | 19°01'14.63828"  | 81°02'20.42501"   |
| P-210 | 5     | 18°58'31.38615"  | 80°54'35.31190"   | P-260 | 5     | 19°01'10.43699"  | 81°02'25.59484"   |
| P-211 | 5     | 18°58'25.12658"  | 80°54'33.44335"   | P-261 | 5     | 19°01'07.19543"  | 81°02'31.49839"   |
| P-212 | 5     | 18°58'18.88567"  | 80°54'31.50745"   | P-262 | 5     | 19°01'05.30146"  | 81°02'38.04363"   |
| P-213 | 5     | 18°58'12.64312"  | 80°54'29.57778"   | P-263 | 5     | 19°01'02.62125"  | 81°02'44.17555"   |
| P-214 | 5     | 18°58'09.13897"  | 80°54'28.49413"   | P-264 | 5     | 19°00'57.72754"  | 81°02'48.68260"   |
| P-215 | 5     | 18°58'43.95424"  | 80°54'42.71854"   | P-265 | 5     | 19°00'54.06904"  | 81°02'52.08945"   |
| P-216 | 5     | 18°58'48.61128"  | 80°54'47.45298"   | P-266 | 5     | 19°01'40.45767"  | 81°00'40.64333"   |
| P-217 | 5     | 18°58'52.74686"  | 80°54'52.71407"   | P-267 | 5     | 19°01'42.05626"  | 81°00'34.02481"   |
| P-218 | 5     | 18°58'56.15537"  | 80°54'57.07164"   | P-268 | 5     | 19°01'45.80616"  | 81°00'28.43977"   |
| P-219 | 5     | 18°58'52.64516"  | 80°54'52.23995"   | P-269 | 5     | 19°01'49.96372"  | 81°00'23.17960"   |
| P-220 | 5     | 18°58'48.44562"  | 80°54'47.03142"   | P-270 | 5     | 19°01'49.62271"  | 81°00'16.74485"   |
| P-221 | 5     | 18°58'43.72901"  | 80°54'42.45145"   | P-271 | 5     | 19°01'48.46850"  | 81°00'10.01996"   |
| P-222 | 5     | 19°00'54.14998"  | 81°02'52.34487"   | P-272 | 5     | 19°01'48.88752"  | 81°00'13.54849"   |
| P-223 | 5     | 19°00'58.97144"  | 81°02'47.75177"   | P-273 | 5     | 19°01'50.27236"  | 81°00'20.22704"   |
| P-224 | 5     | 19°01'03.72479"  | 81°02'43.09753"   | P-274 | 5     | 19°01'47.58241"  | 81°00'25.91147"   |
| P-225 | 5     | 19°01'05.85058"  | 81°02'36.64390"   | P-275 | 5     | 19°01'43.62095"  | 81°00'31.33684"   |
| P-226 | 5     | 19°01'07.96849"  | 81°02'30.19047"   | P-276 | 5     | 19°01'41.00792"  | 81°00'37.50048"   |

# Chhattisgarh BharatNet Phase-II Project

| Point | Patch | Latitud in D:M:S | Longitud in D:M:S | Point | Patch | Latitud in D:M:S | Longitud in D:M:S |
|-------|-------|------------------|-------------------|-------|-------|------------------|-------------------|
| P-227 | 5     | 19°01'11.45459"  | 81°02'24.41895"   | P-277 | 5     | 19°01'40.35057"  | 81°00'40.61094"   |
| P-228 | 5     | 19°01'15.61014"  | 81°02'19.25448"   | P-278 | 5     | 18°57'11.95622"  | 80°53'06.42670"   |
| P-229 | 5     | 19°01'18.85883"  | 81°02'13.37786"   | P-279 | 5     | 18°57'15.00182"  | 80°53'12.47034"   |
| P-230 | 5     | 19°01'22.59228"  | 81°02'07.77480"   | P-280 | 5     | 18°57'18.04478"  | 80°53'18.51549"   |
| P-231 | 5     | 19°01'26.24678"  | 81°02'02.11470"   | P-281 | 5     | 18°57'20.39797"  | 80°53'22.88680"   |
| P-232 | 5     | 19°01'28.85920"  | 81°01'55.86190"   | P-282 | 5     | 18°57'17.34610"  | 80°53'16.84664"   |
| P-233 | 5     | 19°01'31.22440"  | 81°01'49.48896"   | P-283 | 5     | 18°57'14.30040"  | 80°53'10.80309"   |
| P-234 | 5     | 19°01'32.18391"  | 81°01'42.80667"   | P-284 | 5     | 18°57'12.00371"  | 80°53'06.25669"   |
| P-235 | 5     | 19°01'30.87472"  | 81°01'36.11080"   | P-285 | 5     | 18°56'23.85391"  | 80°52'11.24060"   |
| P-236 | 5     | 19°01'30.34476"  | 81°01'29.30666"   | P-286 | 5     | 18°56'29.51850"  | 80°52'14.58453"   |
| P-237 | 5     | 19°01'32.24822"  | 81°01'22.88831"   | P-287 | 5     | 18°56'34.65213"  | 80°52'18.75861"   |
| P-238 | 5     | 19°01'34.60731"  | 81°01'16.56262"   | P-288 | 5     | 18°56'39.32102"  | 80°52'23.51532"   |
| P-239 | 5     | 19°01'35.47359"  | 81°01'09.85631"   | P-289 | 5     | 18°56'42.41693"  | 80°52'29.50577"   |
| P-240 | 5     | 19°01'37.23332"  | 81°01'03.26955"   | P-290 | 5     | 18°56'46.70354"  | 80°52'34.31212"   |
| P-241 | 5     | 19°01'39.04304"  | 81°00'56.69750"   | P-291 | 5     | 18°56'52.56542"  | 80°52'37.28006"   |
| P-242 | 5     | 19°01'40.73206"  | 81°00'50.09133"   | P-292 | 5     | 18°56'58.35612"  | 80°52'40.39664"   |
| P-243 | 5     | 19°01'40.49236"  | 81°00'43.27535"   | P-293 | 5     | 18°57'01.94971"  | 80°52'45.96773"   |
| P-244 | 5     | 19°01'40.52184"  | 81°00'44.79943"   | P-294 | 5     | 18°57'04.87494"  | 80°52'52.07651"   |
| P-245 | 5     | 19°01'40.28718"  | 81°00'51.57772"   | P-295 | 5     | 18°57'07.82769"  | 80°52'58.17077"   |
| P-246 | 5     | 19°01'38.50714"  | 81°00'58.15825"   | P-296 | 5     | 18°57'10.84336"  | 80°53'04.23061"   |
| P-247 | 5     | 19°01'36.69835"  | 81°01'04.73056"   | P-297 | 5     | 18°57'10.05435"  | 80°53'02.41844"   |
| P-248 | 5     | 19°01'34.86550"  | 81°01'11.29543"   | P-298 | 5     | 18°57'07.07740"  | 80°52'56.33749"   |
| P-249 | 5     | 19°01'34.18824"  | 81°01'18.01903"   | P-299 | 5     | 18°57'04.09871"  | 80°52'50.25723"   |
| P-250 | 5     | 19°01'31.48030"  | 81°01'24.24031"   | P-300 | 5     | 18°57'01.13714"  | 80°52'44.16799"   |
| P-301 | 5     | 18°56'56.77348"  | 80°52'39.41396"   | P-351 | 5     | 19°00'18.27129"  | 80°56'40.38459"   |
| P-302 | 5     | 18°56'50.97392"  | 80°52'36.31271"   | P-352 | 5     | 19°00'20.71346"  | 80°56'46.72559"   |
| P-303 | 5     | 18°56'45.11357"  | 80°52'33.34281"   | P-353 | 5     | 19°00'23.23930"  | 80°56'53.03019"   |
| P-304 | 5     | 18°56'41.70882"  | 80°52'27.64487"   | P-354 | 5     | 19°00'25.77674"  | 80°56'59.32975"   |
| P-305 | 5     | 18°56'38.11266"  | 80°52'22.01078"   | P-355 | 5     | 19°00'23.27315"  | 80°56'53.03873"   |
| P-306 | 5     | 18°56'33.33543"  | 80°52'17.36830"   | P-356 | 5     | 19°00'20.79614"  | 80°56'46.71360"   |
| P-307 | 5     | 18°56'28.02073"  | 80°52'13.43690"   | P-357 | 5     | 19°00'18.42004"  | 80°56'40.34608"   |
| P-308 | 5     | 18°56'23.81880"  | 80°52'11.00521"   | P-358 | 5     | 19°00'15.94201"  | 80°56'34.02106"   |

# Chhattisgarh BharatNet Phase-II Project

| Point | Patch | Latitud in D:M:S | Longitud in D:M:S | Point | Patch | Latitud in D:M:S | Longitud in D:M:S |
|-------|-------|------------------|-------------------|-------|-------|------------------|-------------------|
| P-309 | 5     | 18°59'32.48630"  | 80°55'52.10569"   | P-359 | 5     | 19°00'13.48732"  | 80°56'27.68575"   |
| P-310 | 5     | 18°59'37.60442"  | 80°55'56.32826"   | P-360 | 5     | 19°00'09.10000"  | 80°56'22.74705"   |
| P-311 | 5     | 18°59'42.82031"  | 80°56'00.41823"   | P-361 | 5     | 19°00'09.35175"  | 80°56'20.69229"   |
| P-312 | 5     | 18°59'47.95519"  | 80°56'04.61972"   | P-362 | 5     | 19°01'14.58200"  | 80°57'36.23117"   |
| P-313 | 5     | 18°59'52.21594"  | 80°56'08.08101"   | P-363 | 5     | 19°01'20.95852"  | 80°57'37.57672"   |
| P-314 | 5     | 18°59'47.15572"  | 80°56'03.78085"   | P-364 | 5     | 19°01'21.43456"  | 80°57'37.53648"   |
| P-315 | 5     | 18°59'41.98484"  | 80°55'59.63012"   | P-365 | 5     | 19°01'15.07848"  | 80°57'36.08518"   |
| P-316 | 5     | 18°59'36.79940"  | 80°55'55.49750"   | P-366 | 5     | 19°01'14.58119"  | 80°57'36.03842"   |
| P-317 | 5     | 18°59'32.57931"  | 80°55'52.03451"   | P-367 | 5     | 19°00'41.26896"  | 80°57'27.45714"   |
| P-318 | 5     | 18°59'52.60629"  | 80°56'08.51027"   | P-368 | 5     | 19°00'45.84231"  | 80°57'32.30783"   |
| P-319 | 5     | 18°59'57.60429"  | 80°56'12.88987"   | P-369 | 5     | 19°00'50.40052"  | 80°57'37.17825"   |
| P-320 | 5     | 19°00'02.61439"  | 80°56'17.25514"   | P-370 | 5     | 19°00'56.78457"  | 80°57'37.70304"   |
| P-321 | 5     | 19°00'07.62446"  | 80°56'21.62048"   | P-371 | 5     | 19°01'03.28300"  | 80°57'37.35437"   |
| P-322 | 5     | 19°00'07.41337"  | 80°56'21.27469"   | P-372 | 5     | 19°01'09.76793"  | 80°57'36.81456"   |
| P-323 | 5     | 19°00'02.40274"  | 80°56'16.91099"   | P-373 | 5     | 19°01'12.94786"  | 80°57'36.17836"   |
| P-324 | 5     | 18°59'57.37576"  | 80°56'12.56768"   | P-374 | 5     | 19°01'06.49018"  | 80°57'36.98729"   |
| P-325 | 5     | 18°59'52.65695"  | 80°56'08.44933"   | P-375 | 5     | 19°00'59.99669"  | 80°57'37.42193"   |
| P-326 | 5     | 18°58'55.50748"  | 80°54'57.65278"   | P-376 | 5     | 19°00'53.49644"  | 80°57'37.73094"   |
| P-327 | 5     | 18°58'58.75747"  | 80°55'03.57848"   | P-377 | 5     | 19°00'48.09573"  | 80°57'34.61020"   |
| P-328 | 5     | 18°59'01.78613"  | 80°55'09.63150"   | P-378 | 5     | 19°00'43.46033"  | 80°57'29.81591"   |
| P-329 | 5     | 18°59'04.86896"  | 80°55'15.65505"   | P-379 | 5     | 19°00'41.31410"  | 80°57'27.35449"   |
| P-330 | 5     | 18°59'08.05344"  | 80°55'21.62001"   | P-380 | 5     | 19°00'25.78643"  | 80°56'59.35420"   |
| P-331 | 5     | 18°59'11.27048"  | 80°55'27.56587"   | P-381 | 5     | 19°00'28.31580"  | 80°57'05.65655"   |
| P-332 | 5     | 18°59'14.36447"  | 80°55'33.58316"   | P-382 | 5     | 19°00'30.89042"  | 80°57'11.93856"   |
| P-333 | 5     | 18°59'19.46105"  | 80°55'36.94581"   | P-383 | 5     | 19°00'33.26483"  | 80°57'18.30689"   |
| P-334 | 5     | 18°59'23.52855"  | 80°55'41.48911"   | P-384 | 5     | 19°00'34.85454"  | 80°57'24.80918"   |
| P-335 | 5     | 18°59'26.40779"  | 80°55'47.14870"   | P-385 | 5     | 19°00'40.93488"  | 80°57'27.21671"   |
| P-336 | 5     | 18°59'31.54284"  | 80°55'51.34938"   | P-386 | 5     | 19°00'35.62832"  | 80°57'25.07433"   |
| P-337 | 5     | 18°59'28.21671"  | 80°55'48.51248"   | P-387 | 5     | 19°00'33.55504"  | 80°57'19.01029"   |
| P-338 | 5     | 18°59'23.80708"  | 80°55'43.71851"   | P-388 | 5     | 19°00'31.25991"  | 80°57'12.61665"   |
| P-339 | 5     | 18°59'21.57453"  | 80°55'37.81782"   | P-389 | 5     | 19°00'28.72762"  | 80°57'06.31652"   |
| P-340 | 5     | 18°59'15.59019"  | 80°55'35.45952"   | P-390 | 5     | 19°00'26.14151"  | 80°57'00.03962"   |

# Chhattisgarh BharatNet Phase-II Project

| Point | Patch | Latitud in D:M:S | Longitud in D:M:S | Point | Patch | Latitud in D:M:S | Longitud in D:M:S |
|-------|-------|------------------|-------------------|-------|-------|------------------|-------------------|
| P-341 | 5     | 18°59'12.41171"  | 80°55'29.50660"   | P-391 | 5     | 19°00'25.84919"  | 80°56'59.29157"   |
| P-342 | 5     | 18°59'09.23284"  | 80°55'23.53916"   | P-392 | 5     | 19°01'39.19538"  | 80°57'44.76940"   |
| P-343 | 5     | 18°59'06.04599"  | 80°55'17.57546"   | P-393 | 5     | 19°01'42.33772"  | 80°57'50.76043"   |
| P-344 | 5     | 18°59'02.95144"  | 80°55'11.55843"   | P-394 | 5     | 19°01'43.32631"  | 80°57'57.36607"   |
| P-345 | 5     | 18°58'59.86826"  | 80°55'05.53481"   | P-395 | 5     | 19°01'46.45363"  | 80°58'02.67854"   |
| P-346 | 5     | 18°58'56.74669"  | 80°54'59.53328"   | P-396 | 5     | 19°01'51.74496"  | 80°58'06.66067"   |
| P-347 | 5     | 18°58'56.87166"  | 80°54'56.96307"   | P-397 | 5     | 19°01'57.00350"  | 80°58'10.69080"   |
| P-348 | 5     | 19°00'08.96927"  | 80°56'22.79225"   | P-398 | 5     | 19°02'02.25764"  | 80°58'14.72730"   |
| P-349 | 5     | 19°00'13.37008"  | 80°56'27.71240"   | P-399 | 5     | 19°02'07.50342"  | 80°58'18.77584"   |
| P-350 | 5     | 19°00'15.83728"  | 80°56'34.04015"   | P-400 | 5     | 19°02'10.55357"  | 80°58'24.34926"   |
| P-401 | 5     | 19°02'11.64139"  | 80°58'31.09489"   | P-451 | 5     | 19°01'47.56498"  | 80°58'03.50646"   |
| P-402 | 5     | 19°02'12.68999"  | 80°58'37.84783"   | P-452 | 5     | 19°01'52.84563"  | 80°58'07.50421"   |
| P-403 | 5     | 19°02'13.85580"  | 80°58'44.57681"   | P-453 | 5     | 19°01'58.10417"  | 80°58'11.53436"   |
| P-404 | 5     | 19°02'15.16500"  | 80°58'51.27299"   | P-454 | 5     | 19°02'03.35564"  | 80°58'15.57469"   |
| P-405 | 5     | 19°02'13.21826"  | 80°58'57.67286"   | P-455 | 5     | 19°02'08.59595"  | 80°58'19.63088"   |
| P-406 | 5     | 19°02'13.11460"  | 80°59'04.51345"   | P-456 | 5     | 19°02'10.76473"  | 80°58'25.76412"   |
| P-407 | 5     | 19°02'12.07356"  | 80°59'11.25271"   | P-457 | 5     | 19°02'11.86087"  | 80°58'32.50835"   |
| P-408 | 5     | 19°02'08.60377"  | 80°59'16.96603"   | P-458 | 5     | 19°02'11.99200"  | 80°58'32.64878"   |
| P-409 | 5     | 19°02'11.52823"  | 80°59'13.11451"   | P-459 | 5     | 19°02'10.92912"  | 80°58'25.89927"   |
| P-410 | 5     | 19°02'13.12138"  | 80°59'06.50475"   | P-460 | 5     | 19°02'08.92400"  | 80°58'19.63948"   |
| P-411 | 5     | 19°02'13.31215"  | 80°58'59.67320"   | P-461 | 5     | 19°02'03.74264"  | 80°58'15.50097"   |
| P-412 | 5     | 19°02'14.62257"  | 80°58'53.13165"   | P-462 | 5     | 19°01'58.49483"  | 80°58'11.45558"   |
| P-413 | 5     | 19°02'14.39998"  | 80°58'46.51443"   | P-463 | 5     | 19°01'53.20805"  | 80°58'07.46650"   |
| P-414 | 5     | 19°02'13.15212"  | 80°58'39.79991"   | P-464 | 5     | 19°01'47.87075"  | 80°58'03.55323"   |
| P-415 | 5     | 19°02'12.05224"  | 80°58'33.05606"   | P-465 | 5     | 19°01'43.51627"  | 80°57'58.92280"   |
| P-416 | 5     | 19°02'10.98651"  | 80°58'26.30700"   | P-466 | 5     | 19°01'43.19776"  | 80°57'52.12692"   |
| P-417 | 5     | 19°02'09.23746"  | 80°58'19.88696"   | P-467 | 5     | 19°01'40.07217"  | 80°57'46.13052"   |
| P-418 | 5     | 19°02'04.05872"  | 80°58'15.74473"   | P-468 | 5     | 19°01'36.16735"  | 80°57'40.75495"   |
| P-419 | 5     | 19°01'58.81318"  | 80°58'11.69606"   | P-469 | 5     | 19°01'29.85290"  | 80°57'39.20749"   |
| P-420 | 5     | 19°01'53.52671"  | 80°58'07.70651"   | P-470 | 5     | 19°01'24.03449"  | 80°57'38.04849"   |
| P-421 | 5     | 19°01'48.19435"  | 80°58'03.78583"   | P-471 | 5     | 19°00'35.19795"  | 81°03'24.25849"   |
| P-422 | 5     | 19°01'43.54773"  | 80°57'59.33363"   | P-472 | 5     | 19°00'36.32544"  | 81°03'21.50918"   |

# Chhattisgarh BharatNet Phase-II Project

| Point | Patch | Latitud in D:M:S | Longitud in D:M:S | Point | Patch | Latitud in D:M:S | Longitud in D:M:S |
|-------|-------|------------------|-------------------|-------|-------|------------------|-------------------|
| P-423 | 5     | 19°01'43.33247"  | 80°57'52.51233"   | P-473 | 5     | 19°00'36.68137"  | 81°03'20.77544"   |
| P-424 | 5     | 19°01'40.26412"  | 80°57'46.48987"   | P-474 | 6     | 18°52'12.86379"  | 80°48'58.38200"   |
| P-425 | 5     | 19°01'39.34076"  | 80°57'44.75183"   | P-475 | 6     | 18°52'07.46418"  | 80°48'54.56791"   |
| P-426 | 5     | 19°01'48.44524"  | 81°00'09.00855"   | P-476 | 6     | 18°52'02.07491"  | 80°48'50.73769"   |
| P-427 | 5     | 19°01'48.53133"  | 81°00'02.16742"   | P-477 | 6     | 18°51'56.66139"  | 80°48'46.94604"   |
| P-428 | 5     | 19°01'49.82681"  | 80°59'55.67067"   | P-478 | 6     | 18°51'51.27095"  | 80°48'43.11718"   |
| P-429 | 5     | 19°01'53.32132"  | 80°59'49.90065"   | P-479 | 6     | 18°51'45.87997"  | 80°48'39.28916"   |
| P-430 | 5     | 19°01'55.78501"  | 80°59'43.57629"   | P-480 | 6     | 18°51'40.49742"  | 80°48'35.44809"   |
| P-431 | 5     | 19°01'55.86175"  | 80°59'36.85321"   | P-481 | 6     | 18°51'35.11482"  | 80°48'31.60750"   |
| P-432 | 5     | 19°01'58.63981"  | 80°59'30.67929"   | P-482 | 6     | 18°51'29.71266"  | 80°48'27.79700"   |
| P-433 | 5     | 19°02'00.85402"  | 80°59'24.24767"   | P-483 | 6     | 18°51'24.30813"  | 80°48'23.99067"   |
| P-434 | 5     | 19°02'05.57551"  | 80°59'19.67710"   | P-484 | 6     | 18°51'18.93082"  | 80°48'20.14229"   |
| P-435 | 5     | 19°02'05.25652"  | 80°59'19.78323"   | P-485 | 6     | 18°51'13.56714"  | 80°48'16.27237"   |
| P-436 | 5     | 19°02'00.69873"  | 80°59'24.48854"   | P-486 | 6     | 18°51'08.00409"  | 80°48'12.77569"   |
| P-437 | 5     | 19°01'58.38111"  | 80°59'30.88150"   | P-487 | 6     | 18°51'01.79776"  | 80°48'10.72923"   |
| P-438 | 5     | 19°01'55.66294"  | 80°59'37.08548"   | P-488 | 6     | 18°50'55.55946"  | 80°48'08.78479"   |
| P-439 | 5     | 19°01'55.59536"  | 80°59'43.80256"   | P-489 | 6     | 18°50'49.31480"  | 80°48'06.86386"   |
| P-440 | 5     | 19°01'53.01935"  | 80°59'50.07087"   | P-490 | 6     | 18°50'43.07854"  | 80°48'04.91250"   |
| P-441 | 5     | 19°01'49.53086"  | 80°59'55.84616"   | P-491 | 6     | 18°50'36.74918"  | 80°48'03.34980"   |
| P-442 | 5     | 19°01'48.40007"  | 81°00'02.37975"   | P-492 | 6     | 18°50'35.55617"  | 80°48'03.26708"   |
| P-443 | 5     | 19°01'48.04783"  | 81°00'08.93551"   | P-493 | 6     | 18°53'44.56383"  | 80°49'51.26507"   |
| P-444 | 5     | 19°01'47.14634"  | 81°00'08.85133"   | P-494 | 6     | 18°53'40.77596"  | 80°49'45.70618"   |
| P-445 | 5     | 19°01'23.70095"  | 80°57'39.09781"   | P-495 | 6     | 18°53'36.96325"  | 80°49'40.16614"   |
| P-446 | 5     | 19°01'29.51895"  | 80°57'39.27867"   | P-496 | 6     | 18°53'33.20583"  | 80°49'34.58496"   |
| P-447 | 5     | 19°01'35.87356"  | 80°57'40.72105"   | P-497 | 6     | 18°53'29.40038"  | 80°49'29.03944"   |
| P-448 | 5     | 19°01'39.84770"  | 80°57'46.02657"   | P-498 | 6     | 18°53'25.60855"  | 80°49'23.48448"   |
| P-449 | 5     | 19°01'42.97101"  | 80°57'52.02829"   | P-499 | 6     | 18°53'02.64822"  | 80°49'16.75433"   |
| P-450 | 5     | 19°01'43.36897"  | 80°57'58.79728"   | P-500 | 6     | 18°52'56.36974"  | 80°49'18.54872"   |
| P-501 | 6     | 18°52'50.01620"  | 80°49'18.38384"   | P-551 | 7     | 18°47'02.66767"  | 80°48'57.01870"   |
| P-502 | 6     | 18°52'43.71051"  | 80°49'16.69601"   | P-552 | 7     | 18°46'56.24839"  | 80°48'55.94063"   |
| P-503 | 6     | 18°52'37.40097"  | 80°49'15.02492"   | P-553 | 7     | 18°46'50.94518"  | 80°48'53.22780"   |
| P-504 | 6     | 18°52'31.73439"  | 80°49'11.79546"   | P-554 | 7     | 18°46'46.96163"  | 80°48'49.01162"   |

# Chhattisgarh BharatNet Phase-II Project

| Point | Patch | Latitud in D:M:S | Longitud in D:M:S | Point | Patch | Latitud in D:M:S | Longitud in D:M:S |
|-------|-------|------------------|-------------------|-------|-------|------------------|-------------------|
| P-505 | 6     | 18°52'26.33996"  | 80°49'07.97274"   | P-555 | 7     | 18°46'42.29895"  | 80°48'45.49893"   |
| P-506 | 6     | 18°52'20.96801"  | 80°49'04.11524"   | P-556 | 7     | 18°46'42.58046"  | 80°48'39.83992"   |
| P-507 | 6     | 18°52'15.56763"  | 80°49'00.30203"   | P-557 | 7     | 18°46'43.62969"  | 80°48'33.69462"   |
| P-508 | 6     | 18°52'12.86379"  | 80°48'58.38200"   | P-558 | 7     | 18°46'46.97191"  | 80°48'28.05142"   |
| P-509 | 6     | 18°50'35.55617"  | 80°48'03.26708"   | P-559 | 7     | 18°46'43.75247"  | 80°48'22.40572"   |
| P-510 | 6     | 18°50'29.05308"  | 80°48'03.49065"   | P-560 | 7     | 18°46'42.26236"  | 80°48'15.80954"   |
| P-511 | 6     | 18°50'22.54642"  | 80°48'03.57178"   | P-561 | 7     | 18°46'42.20656"  | 80°48'15.03512"   |
| P-512 | 6     | 18°50'16.05720"  | 80°48'03.29563"   | P-562 | 7     | 18°46'48.56596"  | 80°45'31.69709"   |
| P-513 | 6     | 18°50'09.57898"  | 80°48'03.60324"   | P-563 | 7     | 18°46'44.74127"  | 80°45'26.37984"   |
| P-514 | 6     | 18°50'03.38538"  | 80°48'02.25618"   | P-564 | 7     | 18°46'41.87387"  | 80°45'20.52030"   |
| P-515 | 6     | 18°49'57.79205"  | 80°47'58.76385"   | P-565 | 7     | 18°46'39.15612"  | 80°45'14.45058"   |
| P-516 | 6     | 18°49'52.17476"  | 80°47'55.31413"   | P-566 | 7     | 18°46'34.65940"  | 80°45'09.55232"   |
| P-517 | 6     | 18°49'46.56760"  | 80°47'51.84628"   | P-567 | 7     | 18°46'29.79046"  | 80°45'05.02182"   |
| P-518 | 6     | 18°49'40.95137"  | 80°47'48.39474"   | P-568 | 7     | 18°46'31.09515"  | 80°45'06.26150"   |
| P-519 | 6     | 18°49'35.32988"  | 80°47'44.95276"   | P-569 | 7     | 18°46'31.26039"  | 80°45'06.41859"   |
| P-520 | 6     | 18°49'29.68597"  | 80°47'41.55344"   | P-570 | 7     | 18°46'26.08764"  | 80°45'02.43341"   |
| P-521 | 6     | 18°49'23.44332"  | 80°47'39.64834"   | P-571 | 7     | 18°46'19.61525"  | 80°45'01.74953"   |
| P-522 | 6     | 18°49'22.75284"  | 80°47'39.45408"   | P-572 | 7     | 18°46'13.77909"  | 80°44'58.96490"   |
| P-523 | 6     | 18°54'46.05048"  | 80°50'46.10868"   | P-573 | 7     | 18°46'12.14818"  | 80°44'56.36340"   |
| P-524 | 6     | 18°54'40.98255"  | 80°50'41.82069"   | P-574 | 7     | 18°46'42.20656"  | 80°48'15.03512"   |
| P-525 | 6     | 18°54'35.92294"  | 80°50'37.52143"   | P-575 | 7     | 18°46'41.14847"  | 80°48'08.49177"   |
| P-526 | 6     | 18°54'30.88048"  | 80°50'33.20032"   | P-576 | 7     | 18°46'39.10411"  | 80°48'02.26934"   |
| P-527 | 6     | 18°54'25.83596"  | 80°50'28.88274"   | P-577 | 7     | 18°46'41.38325"  | 80°47'55.92142"   |
| P-528 | 6     | 18°54'20.66901"  | 80°50'24.73866"   | P-578 | 7     | 18°46'43.01365"  | 80°47'49.39758"   |
| P-529 | 6     | 18°54'15.62783"  | 80°50'20.42034"   | P-579 | 7     | 18°46'44.34281"  | 80°47'42.77876"   |
| P-530 | 6     | 18°54'11.90429"  | 80°50'17.34570"   | P-580 | 7     | 18°46'45.51493"  | 80°47'36.38981"   |
| P-531 | 7     | 18°46'59.29011"  | 80°46'19.74790"   | P-581 | 7     | 18°46'45.97550"  | 80°47'29.62421"   |
| P-532 | 7     | 18°46'59.28081"  | 80°46'12.91805"   | P-582 | 7     | 18°46'46.71654"  | 80°47'22.89706"   |
| P-533 | 7     | 18°46'57.50755"  | 80°46'06.84471"   | P-583 | 7     | 18°46'46.99957"  | 80°47'19.86571"   |
| P-534 | 7     | 18°46'53.35475"  | 80°46'01.72368"   | P-584 | 8     | 18°45'49.20175"  | 80°43'22.36906"   |
| P-535 | 7     | 18°46'53.11839"  | 80°45'58.48681"   | P-585 | 8     | 18°45'44.87120"  | 80°43'17.28088"   |
| P-536 | 7     | 18°46'52.58607"  | 80°45'51.67876"   | P-586 | 8     | 18°45'41.46900"  | 80°43'11.45863"   |

# Chhattisgarh BharatNet Phase-II Project

| Point | Patch | Latitud in D:M:S | Longitud in D:M:S | Point | Patch | Latitud in D:M:S | Longitud in D:M:S |
|-------|-------|------------------|-------------------|-------|-------|------------------|-------------------|
| P-537 | 7     | 18°46'53.50903"  | 80°45'44.94746"   | P-587 | 8     | 18°45'38.03208"  | 80°43'05.65824"   |
| P-538 | 7     | 18°46'54.04990"  | 80°45'38.18627"   | P-588 | 8     | 18°45'34.67544"  | 80°42'59.80630"   |
| P-539 | 7     | 18°46'49.17876"  | 80°45'34.76496"   | P-589 | 8     | 18°45'31.25651"  | 80°42'53.99444"   |
| P-540 | 7     | 18°46'46.86515"  | 80°47'17.61604"   | P-590 | 8     | 18°45'27.88272"  | 80°42'48.15376"   |
| P-541 | 7     | 18°46'46.25052"  | 80°47'10.83455"   | P-591 | 8     | 18°45'24.67017"  | 80°42'44.66373"   |
| P-542 | 7     | 18°46'44.82705"  | 80°47'04.22686"   | P-592 | 9     | 18°44'55.27129"  | 80°41'44.97107"   |
| P-543 | 7     | 18°46'45.60887"  | 80°46'57.45460"   | P-593 | 9     | 18°44'53.01649"  | 80°41'38.65470"   |
| P-544 | 7     | 18°46'46.88151"  | 80°46'50.75601"   | P-594 | 9     | 18°44'50.16526"  | 80°41'32.71646"   |
| P-545 | 7     | 18°46'48.16481"  | 80°46'44.05902"   | P-595 | 9     | 18°44'47.47214"  | 80°41'26.49844"   |
| P-546 | 7     | 18°46'51.33941"  | 80°46'38.16244"   | P-596 | 9     | 18°44'44.63841"  | 80°41'20.35031"   |
| P-547 | 7     | 18°46'55.18306"  | 80°46'32.64982"   | P-597 | 9     | 18°44'41.84759"  | 80°41'14.18007"   |
| P-548 | 7     | 18°46'57.33625"  | 80°46'26.28627"   | P-598 | 9     | 18°44'39.04140"  | 80°41'08.01743"   |
| P-549 | 7     | 18°46'59.26628"  | 80°46'21.55315"   | P-599 | 9     | 18°44'36.40484"  | 80°41'01.77286"   |
| P-550 | 7     | 18°46'59.29011"  | 80°46'19.74790"   | P-600 | 9     | 18°44'33.77018"  | 80°40'55.52739"   |
| P-601 | 9     | 18°44'31.13547"  | 80°40'49.28199"   | P-651 | 9     | 18°44'14.10662"  | 80°39'26.32317"   |
| P-602 | 9     | 18°44'29.75529"  | 80°40'46.01045"   | P-652 | 9     | 18°44'11.83153"  | 80°39'19.92547"   |
| P-603 | 9     | 18°44'14.25776"  | 80°38'40.57215"   | P-653 | 9     | 18°44'09.89519"  | 80°39'13.44565"   |
| P-604 | 9     | 18°44'15.00271"  | 80°38'33.78783"   | P-654 | 9     | 18°44'10.13112"  | 80°39'11.45502"   |
| P-605 | 9     | 18°44'16.70567"  | 80°38'27.29088"   | P-655 | 9     | 18°44'38.85270"  | 80°37'38.29325"   |
| P-606 | 9     | 18°44'19.61086"  | 80°38'21.17931"   | P-656 | 9     | 18°44'41.65229"  | 80°37'32.12754"   |
| P-607 | 9     | 18°44'22.52080"  | 80°38'15.07014"   | P-657 | 9     | 18°44'44.49545"  | 80°37'25.98361"   |
| P-608 | 9     | 18°44'25.35520"  | 80°38'08.92237"   | P-658 | 9     | 18°44'47.34527"  | 80°37'19.84305"   |
| P-609 | 9     | 18°44'28.13975"  | 80°38'02.74911"   | P-659 | 9     | 18°44'50.12767"  | 80°37'13.66902"   |
| P-610 | 9     | 18°44'30.93806"  | 80°37'56.58266"   | P-660 | 9     | 18°44'52.60348"  | 80°37'07.55651"   |
| P-611 | 9     | 18°44'33.45641"  | 80°37'50.28473"   | P-661 | 9     | 18°44'46.58298"  | 80°37'04.96466"   |
| P-612 | 9     | 18°44'36.24501"  | 80°37'44.11423"   | P-662 | 9     | 18°44'40.48290"  | 80°37'02.60003"   |
| P-613 | 9     | 18°44'24.00221"  | 80°36'57.09082"   | P-663 | 9     | 18°44'34.24005"  | 80°37'00.67450"   |
| P-614 | 9     | 18°44'17.72492"  | 80°36'55.29591"   | P-664 | 9     | 18°44'28.04699"  | 80°36'58.58176"   |
| P-615 | 9     | 18°44'11.46174"  | 80°36'53.44700"   | P-665 | 9     | 18°44'24.35984"  | 80°36'57.22265"   |
| P-616 | 9     | 18°44'05.16122"  | 80°36'51.74412"   | P-666 | 10    | 18°40'34.19916"  | 80°37'21.50853"   |
| P-617 | 9     | 18°43'58.92162"  | 80°36'49.80935"   | P-667 | 10    | 18°40'31.52397"  | 80°37'27.72498"   |
| P-618 | 9     | 18°43'52.74414"  | 80°36'50.75602"   | P-668 | 10    | 18°40'28.38431"  | 80°37'33.70505"   |

# Chhattisgarh BharatNet Phase-II Project

| Point | Patch | Latitud in D:M:S | Longitud in D:M:S | Point | Patch | Latitud in D:M:S | Longitud in D:M:S |
|-------|-------|------------------|-------------------|-------|-------|------------------|-------------------|
| P-619 | 9     | 18°43'47.80119"  | 80°36'55.16981"   | P-669 | 10    | 18°40'24.02459"  | 80°37'38.69980"   |
| P-620 | 9     | 18°43'42.85567"  | 80°36'59.52341"   | P-670 | 10    | 18°40'18.93134"  | 80°37'42.94915"   |
| P-621 | 9     | 18°43'36.80139"  | 80°37'01.99498"   | P-671 | 10    | 18°40'14.24911"  | 80°37'47.64944"   |
| P-622 | 9     | 18°43'32.46710"  | 80°37'07.00258"   | P-672 | 10    | 18°40'10.95980"  | 80°37'53.32576"   |
| P-623 | 9     | 18°43'27.84538"  | 80°37'11.57619"   | P-673 | 10    | 18°40'07.38614"  | 80°37'59.03005"   |
| P-624 | 9     | 18°43'21.40431"  | 80°37'12.14201"   | P-674 | 10    | 18°40'04.08499"  | 80°38'04.91298"   |
| P-625 | 9     | 18°43'14.99615"  | 80°37'10.95920"   | P-675 | 10    | 18°40'01.00478"  | 80°38'10.92595"   |
| P-626 | 9     | 18°43'08.66032"  | 80°37'09.40628"   | P-676 | 10    | 18°39'56.85928"  | 80°38'16.14403"   |
| P-627 | 9     | 18°43'02.51808"  | 80°37'08.83076"   | P-677 | 10    | 18°39'52.59587"  | 80°38'21.25098"   |
| P-628 | 9     | 18°42'56.04555"  | 80°37'09.29617"   | P-678 | 10    | 18°39'48.14040"  | 80°38'25.89113"   |
| P-629 | 9     | 18°42'49.77570"  | 80°37'11.03348"   | P-679 | 10    | 18°39'43.44410"  | 80°38'30.59142"   |
| P-630 | 9     | 18°42'43.81886"  | 80°37'13.76154"   | P-680 | 10    | 18°39'39.45377"  | 80°38'35.97500"   |
| P-631 | 9     | 18°42'37.90518"  | 80°37'16.58277"   | P-681 | 10    | 18°39'38.93039"  | 80°38'36.53211"   |
| P-632 | 9     | 18°42'36.10997"  | 80°37'17.56342"   | P-682 | 10    | 18°39'38.93039"  | 80°38'36.53211"   |
| P-633 | 9     | 18°44'10.13112"  | 80°39'11.45502"   | P-683 | 10    | 18°39'38.17098"  | 80°38'37.38086"   |
| P-634 | 9     | 18°44'11.42809"  | 80°39'04.76740"   | P-684 | 10    | 18°40'41.87013"  | 80°37'00.57731"   |
| P-635 | 9     | 18°44'12.28984"  | 80°38'57.99763"   | P-685 | 10    | 18°40'41.87102"  | 80°37'01.06579"   |
| P-636 | 9     | 18°44'13.22746"  | 80°38'51.23882"   | P-686 | 10    | 18°40'39.85796"  | 80°37'10.70239"   |
| P-637 | 9     | 18°44'13.86282"  | 80°38'44.44191"   | P-687 | 10    | 18°40'39.47846"  | 80°37'11.43745"   |
| P-638 | 9     | 18°44'14.25776"  | 80°38'40.57215"   | P-688 | 11    | 18°37'36.77935"  | 80°40'40.50710"   |
| P-639 | 9     | 18°44'29.75529"  | 80°40'46.01045"   | P-689 | 11    | 18°37'30.62879"  | 80°40'42.32499"   |
| P-640 | 9     | 18°44'26.88886"  | 80°40'39.87954"   | P-690 | 11    | 18°37'24.36812"  | 80°40'44.13905"   |
| P-641 | 9     | 18°44'24.23525"  | 80°40'33.64303"   | P-691 | 11    | 18°37'18.05913"  | 80°40'45.72784"   |
| P-642 | 9     | 18°44'22.36913"  | 80°40'27.14720"   | P-692 | 11    | 18°37'11.60891"  | 80°40'46.52053"   |
| P-643 | 9     | 18°44'21.53282"  | 80°40'20.37364"   | P-693 | 11    | 18°37'05.52524"  | 80°40'45.47443"   |
| P-644 | 9     | 18°44'20.69744"  | 80°40'13.59997"   | P-694 | 11    | 18°36'59.31069"  | 80°40'44.27676"   |
| P-645 | 9     | 18°44'19.86200"  | 80°40'06.82632"   | P-695 | 11    | 18°36'52.97904"  | 80°40'45.72594"   |
| P-646 | 9     | 18°44'19.05001"  | 80°40'00.04953"   | P-696 | 11    | 18°36'46.87946"  | 80°40'48.09870"   |
| P-647 | 9     | 18°44'18.20375"  | 80°39'53.27742"   | P-697 | 11    | 18°36'41.26753"  | 80°40'50.17727"   |
| P-648 | 9     | 18°44'17.29315"  | 80°39'46.51475"   | P-698 | 11    | 18°38'05.55341"  | 80°40'29.97975"   |
| P-649 | 9     | 18°44'16.33360"  | 80°39'39.75938"   | P-699 | 11    | 18°38'01.03211"  | 80°40'34.88667"   |
| P-650 | 9     | 18°44'15.44150"  | 80°39'32.99378"   | P-700 | 11    | 18°37'56.09752"  | 80°40'39.15625"   |

### Chhattisgarh BharatNet Phase-II Project

| Point | Patch | Latitud in D:M:S | Longitud in D:M:S | Point | Patch | Latitud in D:M:S | Longitud in D:M:S |
|-------|-------|------------------|-------------------|-------|-------|------------------|-------------------|
| P-701 | 11    | 18°37'49.61610"  | 80°40'39.16735"   | P-751 | 12    | 18°33'55.06628"  | 80°41'52.36309"   |
| P-702 | 11    | 18°37'43.18429"  | 80°40'39.62872"   | P-752 | 12    | 18°33'48.90224"  | 80°41'52.91291"   |
| P-703 | 11    | 18°37'36.77935"  | 80°40'40.50710"   | P-753 | 12    | 18°33'42.45486"  | 80°41'52.63844"   |
| P-704 | 11    | 18°38'38.64120"  | 80°39'31.83004"   | P-754 | 12    | 18°33'36.04609"  | 80°41'53.77110"   |
| P-705 | 11    | 18°38'33.33272"  | 80°39'35.74972"   | P-755 | 12    | 18°33'37.70100"  | 80°41'53.56948"   |
| P-706 | 11    | 18°38'29.29801"  | 80°39'40.97172"   | P-756 | 12    | 18°33'44.13974"  | 80°41'52.80947"   |
| P-707 | 11    | 18°38'28.82842"  | 80°39'47.71798"   | P-757 | 12    | 18°33'50.59477"  | 80°41'53.10088"   |
| P-708 | 11    | 18°38'28.08319"  | 80°39'54.43230"   | P-758 | 12    | 18°33'56.46714"  | 80°41'51.47097"   |
| P-709 | 11    | 18°38'24.65771"  | 80°40'00.21976"   | P-759 | 12    | 18°34'08.44617"  | 80°41'43.45496"   |
| P-710 | 11    | 18°38'20.72277"  | 80°40'05.65381"   | P-760 | 12    | 18°34'03.71453"  | 80°41'48.09762"   |
| P-711 | 11    | 18°38'17.76647"  | 80°40'11.70386"   | P-761 | 12    | 18°34'01.00198"  | 80°41'51.16209"   |
| P-712 | 11    | 18°38'16.61804"  | 80°40'18.33347"   | P-762 | 12    | 18°32'51.80147"  | 80°42'29.86056"   |
| P-713 | 11    | 18°38'12.45295"  | 80°40'23.49743"   | P-763 | 12    | 18°32'46.45635"  | 80°42'33.61340"   |
| P-714 | 11    | 18°38'07.58228"  | 80°40'28.02147"   | P-764 | 12    | 18°32'42.09365"  | 80°42'37.48263"   |
| P-715 | 11    | 18°38'05.55341"  | 80°40'29.97975"   | P-765 | 12    | 18°32'37.11592"  | 80°42'41.84040"   |
| P-716 | 11    | 18°39'26.59932"  | 80°38'48.45929"   | P-766 | 12    | 18°32'31.57669"  | 80°42'45.41564"   |
| P-717 | 11    | 18°39'21.89707"  | 80°38'53.17126"   | P-767 | 12    | 18°32'25.99341"  | 80°42'48.91252"   |
| P-718 | 11    | 18°39'17.47797"  | 80°38'58.16488"   | P-768 | 12    | 18°32'20.46792"  | 80°42'52.50703"   |
| P-719 | 11    | 18°39'14.07908"  | 80°39'03.96380"   | P-769 | 12    | 18°32'14.99263"  | 80°42'56.19228"   |
| P-720 | 11    | 18°39'12.35396"  | 80°39'10.48442"   | P-770 | 12    | 18°32'09.46800"  | 80°42'59.78989"   |
| P-721 | 11    | 18°39'07.91714"  | 80°39'15.30703"   | P-771 | 12    | 18°32'03.84336"  | 80°43'03.22068"   |
| P-722 | 11    | 18°39'02.66843"  | 80°39'19.33861"   | P-772 | 12    | 18°31'58.22704"  | 80°43'06.66638"   |
| P-723 | 11    | 18°38'57.43098"  | 80°39'23.38502"   | P-773 | 12    | 18°31'52.67041"  | 80°43'10.08006"   |
| P-724 | 11    | 18°38'51.67902"  | 80°39'26.45591"   | P-774 | 12    | 18°31'47.04286"  | 80°43'13.49306"   |
| P-725 | 11    | 18°38'45.44220"  | 80°39'28.32039"   | P-775 | 12    | 18°31'41.32065"  | 80°43'16.73886"   |
| P-726 | 11    | 18°38'39.51124"  | 80°39'30.88607"   | P-776 | 12    | 18°31'37.03764"  | 80°43'19.20923"   |
| P-727 | 11    | 18°38'38.64120"  | 80°39'31.83004"   | P-777 | 12    | 18°30'26.26426"  | 80°43'58.45082"   |
| P-728 | 11    | 18°36'41.26753"  | 80°40'50.17727"   | P-778 | 12    | 18°30'20.43763"  | 80°44'01.45785"   |
| P-729 | 11    | 18°36'35.23606"  | 80°40'52.67838"   | P-779 | 12    | 18°30'14.78817"  | 80°44'04.81468"   |
| P-730 | 11    | 18°36'30.57812"  | 80°40'57.44132"   | P-780 | 12    | 18°30'09.89797"  | 80°44'09.30480"   |
| P-731 | 11    | 18°36'27.71783"  | 80°41'00.08055"   | P-781 | 12    | 18°30'04.98800"  | 80°44'13.76736"   |
| P-732 | 11    | 18°36'25.94701"  | 80°41'01.39756"   | P-782 | 12    | 18°29'59.42761"  | 80°44'17.04451"   |

# Chhattisgarh BharatNet Phase-II Project

| Point | Patch | Latitud in D:M:S | Longitud in D:M:S | Point | Patch | Latitud in D:M:S | Longitud in D:M:S |
|-------|-------|------------------|-------------------|-------|-------|------------------|-------------------|
| P-733 | 11    | 18°36'24.44262"  | 80°41'02.46763"   | P-783 | 12    | 18°29'53.12681"  | 80°44'18.67783"   |
| P-734 | 11    | 18°35'54.71382"  | 80°41'18.37130"   | P-784 | 12    | 18°29'47.29410"  | 80°44'21.61366"   |
| P-735 | 11    | 18°35'54.00237"  | 80°41'18.71761"   | P-785 | 12    | 18°29'41.76635"  | 80°44'24.78308"   |
| P-736 | 12    | 18°35'25.75270"  | 80°41'32.89518"   | P-786 | 12    | 18°29'40.77116"  | 80°44'24.94478"   |
| P-737 | 12    | 18°35'19.61997"  | 80°41'34.30360"   | P-787 | 12    | 18°31'28.51792"  | 80°43'23.96201"   |
| P-738 | 12    | 18°35'13.25573"  | 80°41'35.72667"   | P-788 | 12    | 18°31'22.78277"  | 80°43'27.18338"   |
| P-739 | 12    | 18°35'06.78462"  | 80°41'36.30419"   | P-789 | 12    | 18°31'17.13251"  | 80°43'30.56534"   |
| P-740 | 12    | 18°35'00.30009"  | 80°41'36.84368"   | P-790 | 12    | 18°31'11.39845"  | 80°43'33.78986"   |
| P-741 | 12    | 18°34'53.99922"  | 80°41'38.51571"   | P-791 | 12    | 18°31'05.64817"  | 80°43'36.98264"   |
| P-742 | 12    | 18°34'47.64461"  | 80°41'39.50402"   | P-792 | 12    | 18°30'59.92827"  | 80°43'40.23275"   |
| P-743 | 12    | 18°34'41.25752"  | 80°41'38.29423"   | P-793 | 12    | 18°30'54.46909"  | 80°43'43.91504"   |
| P-744 | 12    | 18°34'34.86272"  | 80°41'37.15989"   | P-794 | 12    | 18°30'48.28767"  | 80°43'45.95459"   |
| P-745 | 12    | 18°34'28.36092"  | 80°41'36.93364"   | P-795 | 12    | 18°30'42.41481"  | 80°43'48.86325"   |
| P-746 | 12    | 18°34'21.94319"  | 80°41'37.29991"   | P-796 | 12    | 18°30'36.52913"  | 80°43'51.76247"   |
| P-747 | 12    | 18°34'16.32047"  | 80°41'40.66553"   | P-797 | 12    | 18°30'31.12279"  | 80°43'55.42687"   |
| P-748 | 12    | 18°34'10.10169"  | 80°41'42.51557"   | P-798 | 12    | 18°30'26.26426"  | 80°43'58.45082"   |
| P-749 | 12    | 18°34'10.08281"  | 80°41'42.52573"   | P-799 | 12    | 18°31'37.03764"  | 80°43'19.20923"   |
| P-750 | 12    | 18°34'01.03579"  | 80°41'51.19551"   | P-800 | 12    | 18°31'31.27459"  | 80°43'22.37645"   |
| P-801 | 12    | 18°31'28.51792"  | 80°43'23.96201"   | P-851 | 13    | 18°30'42.19227"  | 80°45'13.94374"   |
| P-802 | 12    | 18°34'01.00198"  | 80°41'51.16209"   | P-852 | 13    | 18°30'48.69792"  | 80°45'14.09734"   |
| P-803 | 12    | 18°33'56.67354"  | 80°41'56.02211"   | P-853 | 13    | 18°30'54.77849"  | 80°45'16.15179"   |
| P-804 | 12    | 18°33'51.09274"  | 80°41'59.51512"   | P-854 | 13    | 18°31'00.54620"  | 80°45'19.31044"   |
| P-805 | 12    | 18°33'45.41371"  | 80°42'02.81838"   | P-855 | 13    | 18°31'06.10513"  | 80°45'22.85330"   |
| P-806 | 12    | 18°33'39.59064"  | 80°42'05.86331"   | P-856 | 13    | 18°31'11.68994"  | 80°45'26.35377"   |
| P-807 | 12    | 18°33'33.88710"  | 80°42'09.00325"   | P-857 | 13    | 18°31'17.50163"  | 80°45'29.23310"   |
| P-808 | 12    | 18°33'27.78830"  | 80°42'11.37911"   | P-858 | 13    | 18°31'23.99251"  | 80°45'28.80040"   |
| P-809 | 12    | 18°33'21.43391"  | 80°42'12.77439"   | P-859 | 13    | 18°31'30.48442"  | 80°45'28.33600"   |
| P-810 | 12    | 18°33'15.29481"  | 80°42'15.01648"   | P-860 | 13    | 18°31'36.97926"  | 80°45'27.91367"   |
| P-811 | 12    | 18°33'09.31289"  | 80°42'17.68273"   | P-861 | 13    | 18°31'43.34029"  | 80°45'29.11434"   |
| P-812 | 12    | 18°33'03.85370"  | 80°42'21.36732"   | P-862 | 13    | 18°31'49.62901"  | 80°45'30.86565"   |
| P-813 | 12    | 18°32'58.41124"  | 80°42'25.09965"   | P-863 | 13    | 18°31'55.94156"  | 80°45'32.52254"   |
| P-814 | 12    | 18°32'53.04529"  | 80°42'28.95929"   | P-864 | 13    | 18°32'02.27292"  | 80°45'34.09865"   |

# Chhattisgarh BharatNet Phase-II Project

| Point | Patch | Latitud in D:M:S | Longitud in D:M:S | Point | Patch | Latitud in D:M:S | Longitud in D:M:S |
|-------|-------|------------------|-------------------|-------|-------|------------------|-------------------|
| P-815 | 12    | 18°32'51.80147"  | 80°42'29.86056"   | P-865 | 13    | 18°32'08.62365"  | 80°45'35.58593"   |
| P-816 | 13    | 18°34'48.31220"  | 80°46'03.01704"   | P-866 | 13    | 18°32'14.93660"  | 80°45'37.23323"   |
| P-817 | 13    | 18°34'53.14265"  | 80°46'00.29506"   | P-867 | 13    | 18°32'21.31760"  | 80°45'37.90185"   |
| P-818 | 13    | 18°34'55.57288"  | 80°45'59.53074"   | P-868 | 13    | 18°32'27.19455"  | 80°45'37.44063"   |
| P-819 | 13    | 18°33'05.40676"  | 80°45'49.81408"   | P-869 | 13    | 18°32'27.19455"  | 80°45'37.44063"   |
| P-820 | 13    | 18°33'11.26767"  | 80°45'52.77882"   | P-870 | 13    | 18°32'33.50162"  | 80°45'38.93234"   |
| P-821 | 13    | 18°33'17.06638"  | 80°45'55.87481"   | P-871 | 13    | 18°32'39.67057"  | 80°45'41.10392"   |
| P-822 | 13    | 18°33'22.87910"  | 80°45'58.94190"   | P-872 | 13    | 18°32'45.79110"  | 80°45'43.42060"   |
| P-823 | 13    | 18°33'28.70477"  | 80°46'01.98212"   | P-873 | 13    | 18°32'52.10216"  | 80°45'44.98539"   |
| P-824 | 13    | 18°33'34.53043"  | 80°46'05.02240"   | P-874 | 13    | 18°32'58.40565"  | 80°45'46.64444"   |
| P-825 | 13    | 18°33'40.64515"  | 80°46'07.21098"   | P-875 | 13    | 18°33'04.39106"  | 80°45'49.30038"   |
| P-826 | 13    | 18°33'47.08953"  | 80°46'06.82526"   | P-876 | 13    | 18°33'05.40676"  | 80°45'49.81408"   |
| P-827 | 13    | 18°33'53.55071"  | 80°46'06.01357"   | P-877 | 13    | 18°29'17.94461"  | 80°45'05.74251"   |
| P-828 | 13    | 18°33'59.98682"  | 80°46'05.01707"   | P-878 | 13    | 18°29'20.28304"  | 80°45'05.09814"   |
| P-829 | 13    | 18°34'06.40214"  | 80°46'03.87513"   | P-879 | 13    | 18°29'06.28171"  | 80°45'01.42586"   |
| P-830 | 13    | 18°34'12.79721"  | 80°46'02.61281"   | P-880 | 13    | 18°29'05.24236"  | 80°45'08.09070"   |
| P-831 | 13    | 18°34'19.19226"  | 80°46'01.35046"   | P-881 | 13    | 18°29'09.72230"  | 80°45'08.45571"   |
| P-832 | 13    | 18°34'25.58732"  | 80°46'00.08809"   | P-882 | 13    | 18°29'15.93009"  | 80°45'06.41029"   |
| P-833 | 13    | 18°34'31.98083"  | 80°45'58.81716"   | P-883 | 13    | 18°29'06.30629"  | 80°45'01.33033"   |
| P-834 | 13    | 18°34'38.39192"  | 80°45'58.02811"   | P-884 | 14    | 18°44'35.30546"  | 80°44'53.47819"   |
| P-835 | 13    | 18°34'44.67418"  | 80°45'59.79366"   | P-885 | 14    | 18°44'41.35192"  | 80°44'56.00257"   |
| P-836 | 13    | 18°34'48.24004"  | 80°46'03.07902"   | P-886 | 14    | 18°44'47.49728"  | 80°44'58.21060"   |
| P-837 | 13    | 18°29'20.28304"  | 80°45'05.09814"   | P-887 | 14    | 18°44'53.85733"  | 80°44'59.65112"   |
| P-838 | 13    | 18°29'26.26253"  | 80°45'07.59216"   | P-888 | 14    | 18°45'00.24305"  | 80°45'00.96490"   |
| P-839 | 13    | 18°29'32.18993"  | 80°45'10.40304"   | P-889 | 14    | 18°45'06.63881"  | 80°45'00.93521"   |
| P-840 | 13    | 18°29'38.29006"  | 80°45'12.12631"   | P-890 | 14    | 18°45'13.04675"  | 80°45'00.89407"   |
| P-841 | 13    | 18°29'44.71559"  | 80°45'11.04786"   | P-891 | 14    | 18°45'19.50235"  | 80°45'01.75041"   |
| P-842 | 13    | 18°29'51.13394"  | 80°45'09.92329"   | P-892 | 14    | 18°45'25.94695"  | 80°45'02.68736"   |
| P-843 | 13    | 18°29'57.58367"  | 80°45'09.04443"   | P-893 | 14    | 18°45'32.38497"  | 80°45'03.67934"   |
| P-844 | 13    | 18°30'04.02350"  | 80°45'09.80643"   | P-894 | 14    | 18°45'38.83898"  | 80°45'04.54995"   |
| P-845 | 13    | 18°30'10.42744"  | 80°45'11.01798"   | P-895 | 14    | 18°45'45.29111"  | 80°45'05.43062"   |
| P-846 | 13    | 18°30'16.83260"  | 80°45'12.22237"   | P-896 | 14    | 18°45'46.90095"  | 80°45'05.69171"   |

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| Point | Patch | Latitud in D:M:S | Longitud in D:M:S | Point | Patch | Latitud in D:M:S | Longitud in D:M:S |
|-------|-------|------------------|-------------------|-------|-------|------------------|-------------------|
| P-847 | 13    | 18°30'23.24692"  | 80°45'13.35850"   | P-897 | 14    | 18°44'08.82996"  | 80°44'49.77338"   |
| P-848 | 13    | 18°30'29.74827"  | 80°45'13.65250"   | P-898 | 14    | 18°44'14.37797"  | 80°44'47.71328"   |
| P-849 | 13    | 18°30'36.25233"  | 80°45'13.86444"   | P-899 | 14    | 18°44'20.40147"  | 80°44'47.24298"   |
| P-850 | 13    | 18°30'42.32084"  | 80°45'13.94495"   | P-900 | 14    | 18°44'26.43593"  | 80°44'49.79857"   |
| P-901 | 14    | 18°44'32.49972"  | 80°44'52.27671"   | P-951 | 14    | 18°42'12.04190"  | 80°45'14.44718"   |
| P-902 | 14    | 18°44'35.30546"  | 80°44'53.47819"   | P-952 | 14    | 18°42'18.54488"  | 80°45'14.20779"   |
| P-903 | 14    | 18°42'34.04889"  | 80°45'13.90117"   | P-953 | 14    | 18°42'25.05060"  | 80°45'14.05780"   |
| P-904 | 14    | 18°42'40.55590"  | 80°45'13.87793"   | P-954 | 14    | 18°42'31.55698"  | 80°45'13.94455"   |
| P-905 | 14    | 18°42'47.06317"  | 80°45'13.87176"   | P-955 | 14    | 18°42'34.04889"  | 80°45'13.90117"   |
| P-906 | 14    | 18°42'53.56977"  | 80°45'13.94388"   | P-956 | 14    | 18°39'15.51609"  | 80°45'59.13803"   |
| P-907 | 14    | 18°43'00.07591"  | 80°45'14.07158"   | P-957 | 14    | 18°39'21.98971"  | 80°45'59.83200"   |
| P-908 | 14    | 18°43'06.58263"  | 80°45'14.06094"   | P-958 | 14    | 18°39'28.45558"  | 80°46'00.60075"   |
| P-909 | 14    | 18°43'13.08551"  | 80°45'13.85861"   | P-959 | 14    | 18°39'34.92020"  | 80°46'01.38157"   |
| P-910 | 14    | 18°43'19.16045"  | 80°45'11.48418"   | P-960 | 14    | 18°39'41.38482"  | 80°46'02.16242"   |
| P-911 | 14    | 18°43'25.06355"  | 80°45'08.61154"   | P-961 | 14    | 18°39'47.84944"  | 80°46'02.94327"   |
| P-912 | 14    | 18°43'30.97002"  | 80°45'05.75933"   | P-962 | 14    | 18°39'54.28741"  | 80°46'03.93577"   |
| P-913 | 14    | 18°43'37.00291"  | 80°45'03.21815"   | P-963 | 14    | 18°40'00.72218"  | 80°46'04.95152"   |
| P-914 | 14    | 18°43'42.68530"  | 80°44'59.90631"   | P-964 | 14    | 18°40'03.33518"  | 80°46'05.44582"   |
| P-915 | 14    | 18°43'48.92501"  | 80°44'58.02155"   | P-965 | 14    | 18°37'24.34903"  | 80°45'57.93597"   |
| P-916 | 14    | 18°43'55.36300"  | 80°44'57.02762"   | P-966 | 14    | 18°37'30.84937"  | 80°45'58.25262"   |
| P-917 | 14    | 18°44'01.42323"  | 80°44'54.70518"   | P-967 | 14    | 18°37'37.35006"  | 80°45'58.56104"   |
| P-918 | 14    | 18°44'07.21500"  | 80°44'51.59164"   | P-968 | 14    | 18°37'43.85400"  | 80°45'58.77414"   |
| P-919 | 14    | 18°44'08.82996"  | 80°44'49.77338"   | P-969 | 14    | 18°37'50.35941"  | 80°45'58.94050"   |
| P-920 | 14    | 18°38'59.76856"  | 80°45'57.54850"   | P-970 | 14    | 18°37'56.85634"  | 80°45'59.29133"   |
| P-921 | 14    | 18°39'06.24999"  | 80°45'58.15432"   | P-971 | 14    | 18°38'03.30902"  | 80°46'00.13686"   |
| P-922 | 14    | 18°39'12.72452"  | 80°45'58.83877"   | P-972 | 14    | 18°38'09.80804"  | 80°46'00.24631"   |
| P-923 | 14    | 18°39'15.51609"  | 80°45'59.13803"   | P-973 | 14    | 18°38'16.29246"  | 80°45'59.68264"   |
| P-924 | 14    | 18°40'03.33518"  | 80°46'05.44582"   | P-974 | 14    | 18°38'22.76948"  | 80°45'59.02453"   |
| P-925 | 14    | 18°40'09.73924"  | 80°46'06.65724"   | P-975 | 14    | 18°38'29.24650"  | 80°45'58.36640"   |
| P-926 | 14    | 18°40'16.14122"  | 80°46'07.88064"   | P-976 | 14    | 18°38'34.07292"  | 80°45'57.91893"   |
| P-927 | 14    | 18°40'18.01705"  | 80°46'08.24224"   | P-977 | 14    | 18°38'34.25364"  | 80°45'57.90033"   |
| P-928 | 14    | 18°40'12.21504"  | 80°46'07.12558"   | P-978 | 14    | 18°38'34.25364"  | 80°45'57.90033"   |

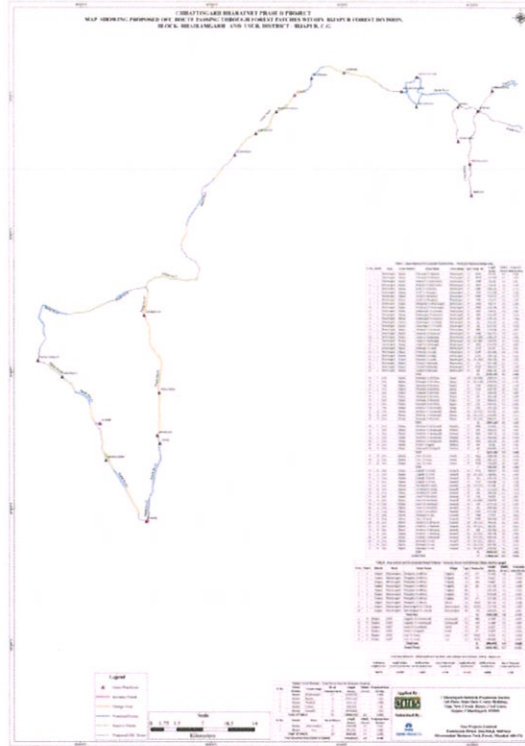
*Chhattisgarh BharatNet Phase-II Project*

| Point  | Patch | Latitud in D:M:S | Longitud in D:M:S | Point  | Patch | Latitud in D:M:S | Longitud in D:M:S |
|--------|-------|------------------|-------------------|--------|-------|------------------|-------------------|
| P-929  | 14    | 18°40'18.61553"  | 80°46'08.35761"   | P-979  | 14    | 18°38'40.73618"  | 80°45'57.30681"   |
| P-930  | 14    | 18°40'24.99694"  | 80°46'09.69365"   | P-980  | 14    | 18°38'46.96528"  | 80°45'55.93376"   |
| P-931  | 14    | 18°40'31.37596"  | 80°46'11.04271"   | P-981  | 14    | 18°38'52.43045"  | 80°45'52.38993"   |
| P-932  | 14    | 18°40'37.67470"  | 80°46'10.40842"   | P-982  | 14    | 18°38'57.07212"  | 80°45'56.57568"   |
| P-933  | 14    | 18°40'43.69293"  | 80°46'07.81649"   | P-983  | 14    | 18°38'59.76856"  | 80°45'57.54850"   |
| P-934  | 14    | 18°40'49.89135"  | 80°46'05.76504"   | P-984  | 14    | 18°35'26.77128"  | 80°45'51.50143"   |
| P-935  | 14    | 18°40'56.16701"  | 80°46'03.95946"   | P-985  | 14    | 18°35'31.77368"  | 80°45'55.86569"   |
| P-936  | 14    | 18°41'02.21131"  | 80°46'01.43558"   | P-986  | 14    | 18°35'37.56830"  | 80°45'58.08481"   |
| P-937  | 14    | 18°41'08.05098"  | 80°45'58.54324"   | P-987  | 14    | 18°35'44.07071"  | 80°45'57.94175"   |
| P-938  | 14    | 18°41'08.12598"  | 80°45'58.46217"   | P-988  | 14    | 18°35'50.57429"  | 80°45'57.78590"   |
| P-939  | 14    | 18°41'08.12598"  | 80°45'58.46217"   | P-989  | 14    | 18°35'57.07599"  | 80°45'57.53762"   |
| P-940  | 14    | 18°41'12.70408"  | 80°45'53.60981"   | P-990  | 14    | 18°36'03.56765"  | 80°45'57.87943"   |
| P-941  | 14    | 18°41'17.26982"  | 80°45'48.74550"   | P-991  | 14    | 18°36'10.07362"  | 80°45'58.01454"   |
| P-942  | 14    | 18°41'21.50896"  | 80°45'43.60686"   | P-992  | 14    | 18°36'16.57726"  | 80°45'58.24538"   |
| P-943  | 14    | 18°41'26.97870"  | 80°45'39.90886"   | P-993  | 14    | 18°36'23.08089"  | 80°45'58.47623"   |
| P-944  | 14    | 18°41'32.26828"  | 80°45'35.93173"   | P-994  | 14    | 18°36'29.58453"  | 80°45'58.70708"   |
| P-945  | 14    | 18°41'37.49435"  | 80°45'31.86344"   | P-995  | 14    | 18°36'35.97694"  | 80°45'59.52147"   |
| P-946  | 14    | 18°41'42.73191"  | 80°45'27.81219"   | P-996  | 14    | 18°36'42.03808"  | 80°46'01.85433"   |
| P-947  | 14    | 18°41'48.22145"  | 80°45'24.14950"   | P-997  | 14    | 18°36'48.49844"  | 80°46'02.20054"   |
| P-948  | 14    | 18°41'53.85283"  | 80°45'20.73115"   | P-998  | 14    | 18°36'54.60210"  | 80°45'59.88954"   |
| P-949  | 14    | 18°41'59.66171"  | 80°45'17.65349"   | P-999  | 14    | 18°37'00.60807"  | 80°45'57.30799"   |
| P-950  | 14    | 18°42'05.55315"  | 80°45'14.93079"   | P-1000 | 14    | 18°37'07.10355"  | 80°45'57.21004"   |
| P-1001 | 14    | 18°37'13.60832"  | 80°45'57.39919"   |        |       |                  |                   |
| P-1002 | 14    | 18°37'20.10688"  | 80°45'57.74356"   |        |       |                  |                   |
| P-1003 | 14    | 18°37'24.34903"  | 80°45'57.93597"   |        |       |                  |                   |



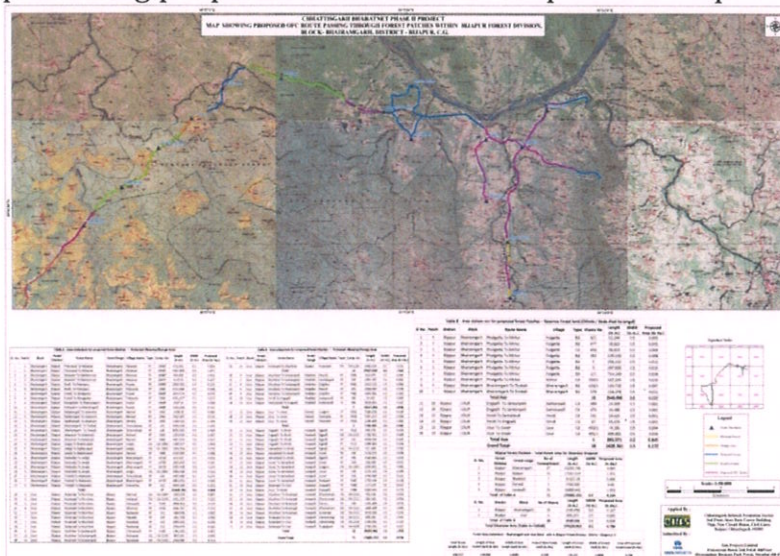
### 5.3. Geo-Referenced Maps of the Proposed Route (Annexure-3)

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

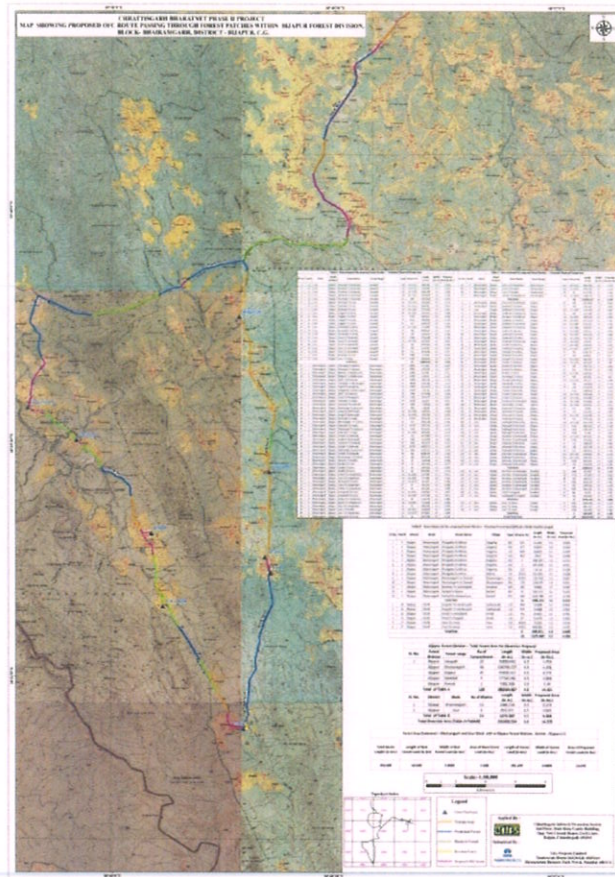


#### Geo-Referenced Maps of Forest Patched with in Bijapur Forest Division

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



#### Geo-Referenced Toposheet Map of Forest Patched Bhairamgarh Block in Bijapur Forest Division.



Geo-Referenced Toposheet Map of Forest Patched Usur Block in Bijapur Forest Division.

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