

Public Works Department National Highway Division, Bilaspur Chhattisgarh



## Marwahi Forest Division DGPS Survey Report

DGPS Survey Report of Keonchi to Ratanpur Road Total Length km.84.175  
Survey & Demarcation of Forest area proposed for diversion of forest land



March 2022

DGPS SURVEY AND GIS MAPPING DONE BY M/s Global Infra-Solutions

# Bilaspur, Chhattisgarh.

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# 1. Introduction and Background

## 1.1 Background

India has a road network of over 43,20,000 Kms and 96,260 Kms of these are National Highways. Ministry of Road Transport & Highways has entrusted PWD – NH Zone, C.G for development of National highways in the state of Chhattisgarh. The PWD – NH Zone, C.G has further entrusted the job of Consultancy services for project management including preparation of Detailed Project report of selected stretches/corridors of National Highways/state roads (approved) "In Principle" for declaration as National Highways) in the State of Chhattisgarh for up gradation to Two/Four lane with paved shoulder configuration to the various consultants eligible for assignment. The government of Chhattisgarh is to implement the project of "Widening & Strengthening of Keonchi - Ratanpur road of approx. length 84.175 km". As per the guideline given by Govt. of India to National highway Public Works department (NHPWD), the office of Executive Engineer PWD division Bilaspur, Dist. Bilaspur is to implement the project.

## 1.2 Introduction

The existing Keonchi - Ratanpur road is an old road initially constructed prior to year 1980. The existing road contains forest patches, which the Chhattisgarh NHPWD proposes to use for non-forest use. The Keonchi - Ratanpur road falls under the Bilaspur Forest division. The DGPS Survey is proposed to carry out to estimate the forest and non-forest area along the entire road corridor from Keonchi - Ratanpur. The NH PWD proposes to apply for Forest clearance from Ministry of Environment, Forest & Climate Change (MoEF&CC) for the entire route of approx. 84.175 km. The proposed road contains Reserve Forest, Protected Forest and Revenue Forest patches along the route. Ministry of Environment and Forests, Govt. of India vide their circular No.F.No.-11- 9/98-FC, dated 08-07-2011 have stipulated that to ensure accurate delineation of forest area proposed to be diverted for non-forestry purposes under Section-2 of Forest Conservation Act, 1980 the diversion proposal under Forest Conservation Act shall be accompanied by DGPS/ETS surveyed reports of the forest land proposed for diversion as per guidelines laid down in the circular issued by ministry of forest and environment, Government of India from time to time. While submitting proposal

for diversion of forest land for non-forest purpose, the user agency has to submit the Georeferenced boundary, using DGPS in shape file containing maps along with hard copy authenticated by Divisional Forest Officer (DFO) concerned. The conventional methods of survey to delineate and demarcate the forest land with reference to the earlier Cadastral/Forest Compartment/compartment base map are time consuming. Further, the conventional surveys are "Unprojected" Surveys, hence linking them to geospatial domain is a challenging task. The modern survey technique using Differential Global Positioning System (DGPS) with Georeferenced high resolution satellite image bring efficacy in survey in shorter time span compared to old method of survey and record preparation. Highresolution space-borne remote sensing image data show a high level of detail and provide many opportunities to be used as base for Cadastral/Forest Compartment map generation. The combination of GIS and GPS activities, play a crucial role in developing the survey of the forest boundary points and making forest Cadastral/Forest Compartment maps. Area, length other measures in the GIS numerical database are considerably easy to compute and correlate with already available data with line department.

**Global is Empanelled for DGPS Survey and mapping by Chhattisgarh Council of Science and Technology (CGCOST), Raipur, Chhattisgarh and also em paneled by Ministry of Rural Development, Department of Land Resources, Govt. of India.**

### 1.3 Location of Keonchi to Ratanpur Road

The Keonchi - Ratanpur Road falls in one Tehsil of Bilaspur District. The passes through various villages in Kota Tehsils. The approximate length of road is 81.175 km. The road starts from outstirts of Keonchi Village and follows--North-past direction towards Khodri, Kenda,Darsagar, Majhwani,Baridih,chapora villages, which is close to Ratanpur Village. The Keonchi - Ratanpur road can be seen in the Survey of India Toposheet No. 64 F/14, 64 J/2 and 64 J/3. The road is bounded by Latitude 22°37'16.01"N to 81°46'43.84"E and Longitude 22°15'43.37"N to 82° 8'43.39"E

  
Sub Engineer  
N.H. (P.W.D.)  
Bilaspur

  
(Smt. Mamta Patel)  
Executive Engineer  
P.W.D., N.H. Division  
Bilaspur (C.G.)

  
वनपरिक्षेत्र अधिकारी  
खोदरी (सा.)

  
वन परिक्षेत्राधिकारी  
गौरेला (सा.)

  
उप वन-मंडलाधिकारी  
गौरेला



Fig-1: Keonchi - Ratanpur Road alignment on Satellite Imagery

## 2. Scope of Work

1. Using the CMPDI established base station as reference, Global will establish one or more temporary benchmark control points near/inside the Keonchi to Ratanpur road alignment.
2. DGPS Survey for collection of ground coordinates of the forest boundary pillars and road boundary (left, Right corridor) points.
3. Assessment of total forest area proposed for non-forest use along the road corridor. The Forest area includes Protected Forest area, Reserve Forest area, and Revenue forest area.
4. Preparation of village wise non-forest area statement.
5. Review of revenue forest Khasras together with revenue records (P-II) and revenue maps.

6. DGPS Survey to collect coordinates of forest compartment boundary pillar points.

7. Data processing and interpretation: -

- a. Creation of road alignment boundary vector map using the DGPS Surveyed data.
- b. Superimposition of road alignment boundary polygon layer on Georeferenced forest maps, SOT Toposheet and Satellite imagery.
- c. Computation of road alignment Right of Way (ROW) area - including Forest patches area and Non-Forest khasra area in the Right of Way of the road corridor.
- d. Preparation of Geo-referenced forest map on 1:15000 scale, Cadastral map on 1:4000 scale, SOT Toposheet on 1:50000 scale and Satellite imagery map.
- e. Preparation of DGPS survey report along with soft copy of - maps in shapefile format and kml file

8. Printing of DGPS Survey report and Georeferenced maps.

### 3. Deliverables

The deliverables envisaged for the assignment are described below

1. DGPS Reports - The details of the primary and Temporary Bench mark Control Points.
2. Geo-referenced SOT maps & forest block maps based on DGPS observations - Hard and Soft Copy (SHP and KML formats).
3. Road alignment ROW Forest and Non-Forest area statement as per DGPS Survey
4. DGPS Survey and mapping report.

### 4. Brief description of the Technical approach

#### 4.1 Input Data

Office of the Executive Engineer, Bilaspur Division of NHPWD assisted in obtaining the village maps and khasras BI/PII details of the revenue forest and non-forest khasras that are intersecting the Keonchi - Ratanpur road corridor. Global obtained the Survey of India & Forest maps which will be geo-referenced and forest patches digitization. NHPWD Assistant Engineer also provided the tentative road corridor land schedule to Global.

  
Sub Engineer  
N.H. (P.W.D.)  
Bilaspur (C.G.)



  
वनपरिक्षेत्र अधिकारी  
खोडरी (सा.)

  
वन परिक्षेत्र अधिकारी  
गौरेला (सा.)

  
वन परिक्षेत्र अधिकारी  
गौरेला

#### 4.2 Base Station DGPS Surveyed Coordinates (Fixed by CMPDI)

Station Name	Observed Geographic Co-ordinates (WGS- UTM Co-ordinates (Zone 44 N) 84)		UTM Co-ordinates (Zone 44 N)	
	Latitude	Longitude	Northing	Easting
INC1	22° 38' 45.885"	81° 50' 55.658"	587213.078	2504590.435

#### 4.3 Establishment of Temporary control Benchmark (TBM) points

The Temporary Control Point are established in Real Time Kinematic (RTK) Mode using DGPS Instrument with reference to the INC04 and other established base stations

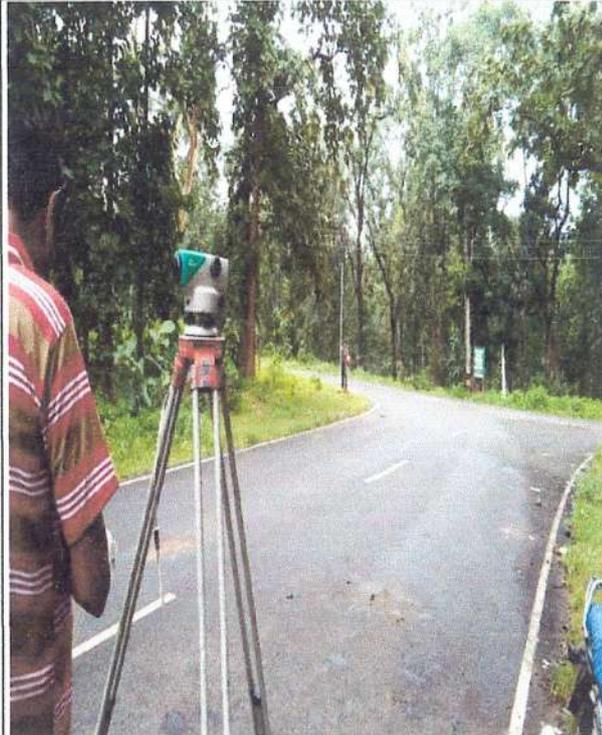
Below table lists the coordinates of TBMs:

Base Station	Easting	Northing	Height	Latitude	Longitude	Location
TBM:1	580126	2502076.5	585.26	22° 37' 25.396"	81° 46' 46.906"	Pillar
TBM: 3	580375.7	2502510.2	590.687	22° 37' 39.457"	81° 46' 55.734"	Pillar
TBM: 4	580520.4	2502953	597.62	22° 37' 53.833"	81° 47' 0.885"	Pillar
TBM: 5	581592.9	2503142	608.153	22° 37' 59.791"	81° 47' 38.49"	Pillar
TBM: 6	583063.6	2503517.8	627.15	22° 38' 11.755"	81° 48' 30.081"	Pillar
TBM: 7	583388.1	2503623.4	633.709	22° 38' 15.132"	81° 48' 41.468"	culvert
TBM: 8	583774.7	2503748.3	650.815	22° 38' 19.125"	81° 48' 55.037"	Pillar
TBM: 9	585487.4	2503814.7	631.269	22° 38' 20.976"	81° 49' 55.047"	Pillar
TBM: 10	586953.4	2504212.8	624.141	22° 38' 33.652"	81° 50' 46.486"	Pillar
TBM: 11	587462.2	2504463.2	627.097	22° 38' 41.701"	81° 51' 4.36"	culvert
TBM: 12	589072.6	2504609.9	627.192	22° 38' 46.17"	81° 52' 0.808"	Pillar
TBM: 13	591810.4	2505670.7	583.574	22° 39' 20.136"	81° 53' 36.947"	culvert
TBM: 14	592790.6	2505836.9	580.03	22° 39' 25.349"	81° 54' 11.323"	Road

Base Station	Easting	Northing	Height	Latitude	Longitude	Location
TBM: 15	594246.4	2505894	575.802	22° 39' 26.918"	81° 55' 2.341"	Pillar
TBM: 16	595202.3	2506158.7	570.357	22° 39' 35.333"	81° 55' 35.889"	Pillar
TBM: 17	595664.5	2506180.6	573.148	22° 39' 35.951"	81° 55' 52.086"	Pillar
TBM: 18	596666.7	2506310.7	566.873	22° 39' 39.976"	81° 56' 27.231"	Road
TBM: 20	596852.1	2506480.5	557.083	22° 39' 45.458"	81° 56' 33.765"	Pillar
TBM: 22	597085.4	2506468.4	561.985	22° 39' 45.015"	81° 56' 41.934"	Pillar
TBM: 23	597300.4	2506448.5	559.667	22° 39' 44.324"	81° 56' 49.464"	Pillar
TBM: 26	598510.5	2506350.2	553.955	22° 39' 40.877"	81° 57' 31.838"	Pillar
TBM: 27	598560.7	2506472.4	552.901	22° 39' 44.839"	81° 57' 33.626"	River
TBM: 28	599097.2	2506583.1	554.978	22° 39' 48.327"	81° 57' 52.447"	Pillar
TBM: 29	600803.5	2506337.6	591.021	22° 39' 39.982"	81° 58' 52.175"	Pillar
TBM: 30	602080.2	2505848.2	590.978	22° 39' 23.792"	81° 59' 36.792"	Pillar
TBM: 31	602858	2504779.2	594.089	22° 38' 48.859"	82° 0' 3.791"	HP
TBM: 32	603868.5	2504413.1	618.073	22° 38' 36.734"	82° 0' 39.103"	Pillar
TBM: 33	605270.7	2504114.1	612.793	22° 38' 26.7"	82° 1' 28.15"	Road
TBM: 34	605550	2503294.8	612.361	22° 37' 59.995"	82° 1' 37.737"	Pillar
TBM: 35	606817.5	2501312	630.416	22° 36' 55.237"	82° 2' 21.653"	Pillar
TBM: 36	608011.4	2500718.7	649.027	22° 36' 35.671"	82° 3' 3.321"	Pillar
TBM: 37	608561.9	2499008.3	659.799	22° 35' 39.929"	82° 3' 22.177"	Pillar
TBM: 38	608637.1	2498310.8	642.071	22° 35' 17.233"	82° 3' 24.635"	Pillar
TBM: 39	608707.2	2498140.3	636.818	22° 35' 11.671"	82° 3' 27.046"	Pillar
TBM: 40	608943.7	2497474	593.79	22° 34' 49.953"	82° 3' 35.164"	culvert

Base Station	Easting	Northing	Height	Latitude	Longitude	Location
TBM: 41	609101.4	2497207.8	551.045	22° 34' 41.259"	82° 3' 40.618"	culvert
TBM: 42	609190.1	2497010.4	515.103	22° 34' 34.821"	82° 3' 43.675"	Pillar

#### 4.4 Field Photographs of TBM Stations



#### 4.5 DGPS Survey Procedure

Global started the DGPS Survey using the above mentioned CMPDI Base station control points. The coordinate of the Base Station is as follows:

Point ID	Latitude (d:m:s)	Longitude (d:m:s)	Ellipsoidal Height(m)
INC1	22° 38' 45.885"	81° 50' 55.658"	NA



**Fig-3: Images showing DGPS Base Station**

DGPS survey was carried out using a pair of DGPS instrument. One DGPS Instrument was used as Base Station (INC1). With reference to Base station other TBM are established which are spread out through-out the Keonchi to Ratanpur Road corridor. The forest pillar coordinates are collected with reference to TBM base stations. The distance between the TBM Base Station and rover was always less than 5km.

The survey was conducted in Real Time Kinematic (RTK) mode. The Survey team collected DGPS coordinates of road corridor @ 50m interval & at every turn and bends of the road. At each section the coordinates were Keonchi - Ratanpur corridor, centrelines and right corridor.

#### 4.6 Creation of Road Corridor Right of way boundary map

The road corridor right of way coordinates, forest pillars etc., surveyed points captured through DGPS were plotted in the GIS Software and the road corridor left, centreline, and

right corridor boundary line was created by joining the surveyed points. A single polygon is hence created from the left and right corridor centrelines.

The length of the surveyed road is approximately 81.175 km, the maximum width of the road in the total corridor is around 18.00,24.00,35.00,25.00 meters, and the minimum width of the road is around 18.00 meters.

Road chainage points are created starting from Keonchi START location and ending at Ratanpur. The chainage points are labelled, and shown in the map layout.

The Forest pillars are also plotted on the geo-referenced map road corridor map. Using the Geo-referenced forest stock maps, the forest compartment boundary of the intersecting forest compartment is digitized.

The forest map and Survey of India map are geo-referenced to the WGS 84 datum and UTM Projection system. The village maps are also geo-referenced and mosaicked to the same datum (WGS 84) and UTM Projection system (UTM Zone 44N).

The Cadastral map is geo-referenced and all khasras that intersect the road corridor are digitized. Each khasra type (Private/Govt.) is identified from the revenue records available with patwari and Bhu-Abhilekh records in the collectorate. The BI/PII records of the revenue forest khasras is downloaded from the CG Bhuiya portal. The khasra patch intersecting the road polygon clipped and its area is computed.

After digitization and some editing of the boundary of the revenue Khasra, a village wise land schedule showing the total private land, and total Govt. land including the revenue forest is prepared. Similarly, the forest compartment area intersecting the road corridor and proposed for forest diversion is computed.

The forest compartment boundary layer and revenue forest Khasra layer is superimposed on survey of India Map and Forest stock map.

  
Sub Engg.

Sub Engineer  
N.H. (P.W.D.)  
Sub Dn. Bilaspur (C.G.)



  
वनपरिक्षेत्र अधिकारी  
खोडरी (सा.)

  
वन परिक्षेत्र अधिकारी  
गौरेला (सा.)

  
वन वन परिक्षेत्र अधिकारी  
गौरेला

## 5. DGPS Survey and Mapping Results

The total forest area inside the Keonchi - Ratanpur road corridor proposed for forest diversion is approximately 10.566Ha. Out of this, the Protected Forest area is **10.566Hec.**

There are total of 5 forest compartments touching the Road corridor boundary. Out of the 5 forest compartments, 1 compartment are of Reserved Forest (RF) Category and 4 of them are of Protected Forest (PF) Category.

The patch wise forest area statement is herewith annexed and marked as Annexure-1. DGPS Survey coordinates of forest patch boundary points are herewith annexed and marked as Annexure-2. The geo-referenced Survey of India map at 1:50000 scale and Forest stock map at 1:15000 scale is herewith annexed and marked as Annexure -3.

Keonchi to Ratanpur Road Length km.84.175 Land Schedule of the Protected Forest in the road of Right of way (ROW)							
S.No.	Topo Sheet No.	Beat Name	Compartment No/Khasra No.	Forest Type	Forest Type	Forest Division	Area Acquired in (Hec.)
1	64 F/14	Keonchi	49/1	Gaurela Range	Revenue Forest	Marwahi	0.271
2		Keonchi	44	Gaurela Range	Revenue Forest	Marwahi	0.166
3		Thadpathara	2304	Gaurela Range	Protected Forest	Marwahi	1.776
4		Thadpathara	2304	Gaurela Range	Protected Forest	Marwahi	0.072
5		Tawadobra	2303	Gaurela Range	Protected Forest	Marwahi	0.169
6		Tawadobra	2303	Gaurela Range	Protected Forest	Marwahi	0.384
7		Tawadobra	2302	Gaurela Range	Protected Forest	Marwahi	0.336
8		Tawadobra	2302	Gaurela Range	Protected Forest	Marwahi	1.056
9		Gaurkheda	2321	Gaurela Range	Protected Forest	Marwahi	0.102
10		Thengadad	69/1/क	Gaurela Range	Revenue Forest	Marwahi	0.016
11		Khodri	2240	Khodri Range	Protected Forest	Marwahi	0.998
12		Khodri	2200	Khodri Range	Protected Forest	Marwahi	0.826
13		Khodri	2200	Khodri Range	Protected Forest	Marwahi	0.720

14		Khodri	24/1/क	Khodri Range	Revenue Forest	Marwahi	0.159
15		Banjhorka	1/1/क/1	Khodri Range	Revenue Forest	Marwahi	0.063
16		Banjhorka	114/1	Khodri Range	Revenue Forest	Marwahi	0.105
17		Jogisar	272/1	Khodri Range	Revenue Forest	Marwahi	0.066
18		Jogisar	174/1	Khodri Range	Revenue Forest	Marwahi	0.126
19		Jogisar	193/1/क	Khodri Range	Revenue Forest	Marwahi	0.092
20		Dugra	500/1	Khodri Range	Revenue Forest	Marwahi	0.100
21	64 J/2	Bariyadand	2108	Khodri Range	Protected Forest	Marwahi	0.115
22		Bariyadand	2108	Khodri Range	Protected Forest	Marwahi	0.117
23		Belpath	2125	Khodri Range	Protected Forest	Marwahi	0.510
24		Belpath	2128	Khodri Range	Protected Forest	Marwahi	0.096
25		Belpath	2128	Khodri Range	Protected Forest	Marwahi	0.380
26		Belpath	2128	Khodri Range	Protected Forest	Marwahi	0.466
27		Belpath	2128	Khodri Range	Protected Forest	Marwahi	0.153
28		Belpath	2128	Khodri Range	Protected Forest	Marwahi	0.446
29		Belpath	2128	Khodri Range	Protected Forest	Marwahi	0.197
30		Belpath	2128	Khodri Range	Protected Forest	Marwahi	0.483
<b>Total Proposed Forest Area for diversion (Ha.)</b>							<b>10.566</b>

*Sub Engg*  
Sub Engg

Sub Engineer  
N.H. (P.W.D.)  
Sub Dn. Eilasapur (C.G.)

*Mamta Patel*

(Smt. Mamta Patel)  
Executive Engineer  
P.W.D., N.H. Division  
Bilaspur (C.G.)

*[Signature]*

वनपरिक्षेत्र अधिकारी  
खोडरी (सा.)

*[Signature]*  
वन परिक्षेत्र अधिकारी  
गौरैला (सा.)

*[Signature]*  
उप वन मंडलाधिकारी  
गौरैला

*[Signature]*  
Divisional Forest Officer  
Marwahi Division Pendra Road

**Keonchi to Ratanpur Road Total Length 84.175km Land Schedule of the Non Forest Area (Pvt+Govt) in Ha.**

Sr. No.	Name of District	Name of Tahsil	Name of Village	Forest Land(ha.)	Non-Forest Land(ha.)
1	2	3	4	5	6
1	Gaurel, Pendra, Marwahi	Pendra Road	Keonchi	0.420	1.572
2	Gaurel, Pendra, Marwahi	Pendra Road	Thadpathara	1.848	0
3	Gaurel, Pendra, Marwahi	Pendra Road	Tawadabra	0.889	0
4	Gaurel, Pendra, Marwahi	Pendra Road	Piparkhuti	1.056	0.252
5	Gaurel, Pendra, Marwahi	Pendra Road	Gaurkheda	0.102	0.64
6	Gaurel, Pendra, Marwahi	Pendra Road	Thengadand	0.016	1.842
7	Gaurel, Pendra, Marwahi	Pendra Road	Khodri	2.710	0.848
8	Gaurel, Pendra, Marwahi	Pendra Road	Banjhorka	0.176	2.616
9	Gaurel, Pendra, Marwahi	Pendra Road	Jogisar	0.518	2.04
10	Gaurel, Pendra, Marwahi	Pendra Road	Belpet	2.731	1.8
11	Gaurel, Pendra, Marwahi	Pendra Road	Dugra	0.100	1.96
12	Gaurel, Pendra, Marwahi	Pendra Road	Umarkhohi	0.000	0.328
<b>Total area</b>				<b>10.566</b>	<b>13.898</b>

*Sarkar*  
Sub Engr

Sub Engineer  
N.H. (P.W.D.)  
Bilaspur (C.G.)

*Patel*  
(Smt. Manita Patel)  
Executive Engineer  
P.W.D., N.H. Division  
Bilaspur (C.G.)

*S*  
वनपरिक्षेत्र अधिकारी  
खोडरी (सा.)

*g*  
उप वन भूमि अधिकारी  
गौरला

*h*  
वन परिक्षेत्र अधिकारी  
गौरला (सा.)

## 6. Background of Organization

Global International Services ([www.geotrax.in](http://www.geotrax.in)) is a Professional Land Mapping and Services provider across India established in the year 1999. During the last 15+ years, we had an opportunity to execute a variety of surveying jobs all over India and in the Middle East to

*DP*  
Divisional Forest Officer  
Marwahi Division, Pendra Road

various customer specifications for RIS, US, and Municipal GIS oriented jobs. Cadastral Surveys using ETS/DGPS and Provision of Ground control conforming to stringent accuracy standards using high end instruments as RTK/GPRS DGPS is our speciality. We also have a UAV (Drone) and Ground Penetrating Radar (on Roaster).

Global is headed by Mr. V.V.S Bandhakavi (Ex-Survey of India employee) who has more than 40+ years' experience in h field of surveying in India and abroad.

Some of our major clients include:

- Odisha Space Application Centre (ORSAC)
- Steel Authority of India (SAIL)
- National Thermal Power Corporation (NTPC)
- Survey Settlement and Land Records Department (Govt. Of Gujarat)
- Survey Settlement and Land Records Department (Govt. Of Madhya Pradesh)
- Irrigation Dept. (Govt. of Jammu and Kashmir)
- National Remote Sensing Agency (Hyderabad)
- Meinhardt India Private Limited (Delhi),
- Nagarjuna Construction Company (NCC, Hyderabad)
- Consulting Engineering Services (CES, New Delhi)
- Lee Associates of South Asia (LASA, Delhi)
- Power development Corporation (Govt. of Jammu and Kashmir)

Global expertise covers:

- DGPS Surveys for Mining lease boundary, and Forest Diversion
- Consultancy services for Mining Plan & ETA
- Boundary and cadastral surveys using DGPS and Total station;
- Topographic surveys.
- Ground control surveys for photogrammetric projects, including Airborne GPS.
- Only one of the two companies in India who are empanelled by NRSA for DGPS survey for ground control point collection
- Route and alignment surveys combining conventional and photogrammetric methods.
- Construction and cross-section surveys (layout and quality control).

Being a client focused organization, Global's combination of survey equipment, personnel, and computer resources allow for the tailoring of the project approach to match the orders of

accuracy and precision requirements for each project. Global's equipment resources include 250 DGPS, 33 hand-held GPS units, theodolites, electronic digital and automatic levels, 19 Electronic Total Stations, and data collectors.

On the mapping side, our CAD and GIS professionals assist the survey projects by creating accurate maps. We have dedicated CAD experts who have extensive experience with different CAD software.

## 7. Annexure — 1: Patch wise Forest area statement

Proposed Protected Forest Land Patch Wise Area Statement							
S.No.	Patch No.	Beat Name	Compartment No/Khasra No.	Forest Type	Forest Type	Forest Division	Area Acquired in (Hec.)
1	Patch 1_1	Keonchi	49/1	Gaurela Range	Revenue Forest	Marwahi	0.271
2	Patch 1_1	Keonchi	44	Gaurela Range	Revenue Forest	Marwahi	0.166
3	Patch 1_2	Thadpathara	2304	Gaurela Range	Protected Forest	Marwahi	1.776
4	Patch 1_3	Thadpathara	2304	Gaurela Range	Protected Forest	Marwahi	0.072
5	Patch 1_4	Tawadobra	2303	Gaurela Range	Protected Forest	Marwahi	0.169
6	Patch 1_5	Tawadobra	2303	Gaurela Range	Protected Forest	Marwahi	0.384
7	Patch 1_6	Tawadobra	2302	Gaurela Range	Protected Forest	Marwahi	0.336
8	Patch 1_7	Tawadobra	2302	Gaurela Range	Protected Forest	Marwahi	1.056
9	Patch 1_8	Gaurkheda	2321	Gaurela Range	Protected Forest	Marwahi	0.102
10	Patch 1_9	Thengadad	69/1/क	Gaurela Range	Revenue Forest	Marwahi	0.016
11	Patch 1_10	Khodri	24/1/क	Khodri Range	Revenue Forest	Marwahi	0.159
12	Patch 1_11	Khodri	2240	Khodri Range	Protected Forest	Marwahi	0.998
13	Patch 1_12	Khodri	2200	Khodri Range	Protected Forest	Marwahi	0.826

14	Patch 1_13	Khodri	2200	Khodri Range	Protected Forest	Marwahi	0.720
15	Patch 1_14	Banjhorka	1/1/क/1	Khodri Range	Revenue Forest	Marwahi	0.063
16	Patch 1_15	Banjhorka	114/1	Khodri Range	Revenue Forest	Marwahi	0.105
17	Patch 1_16	Bariyadand	2108	Khodri Range	Protected Forest	Marwahi	0.115
18	Patch 1_17	Bariyadand	2108	Khodri Range	Protected Forest	Marwahi	0.117
19	Patch 1_18	Jogisar	272/1	Khodri Range	Revenue Forest	Marwahi	0.066
20	Patch 1_19	Jogisar	174/1	Khodri Range	Revenue Forest	Marwahi	0.126
21	Patch 1_20	Jogisar	193/1/क	Khodri Range	Revenue Forest	Marwahi	0.092
22	Patch 1_21	Belpath	2125	Khodri Range	Protected Forest	Marwahi	0.510
23	Patch 1_22	Belpath	2128	Khodri Range	Protected Forest	Marwahi	0.096
24	Patch 1_23	Belpath	2128	Khodri Range	Protected Forest	Marwahi	0.380
25	Patch 1_24	Belpath	2128	Khodri Range	Protected Forest	Marwahi	0.466
26	Patch 1_25	Belpath	2128	Khodri Range	Protected Forest	Marwahi	0.153
27	Patch 1_26	Belpath	2128	Khodri Range	Protected Forest	Marwahi	0.446
28	Patch 1_27	Belpath	2128	Khodri Range	Protected Forest	Marwahi	0.197
29	Patch 1_28	Belpath	2128	Khodri Range	Protected Forest	Marwahi	0.483
30	Patch 1_29	Dugra	500/1	Khodri Range	Revenue Forest	Marwahi	0.100
<b>Total Proposed Forest Area for diversion (Ha.)</b>							<b>10.566</b>

## 7.2 Annexure-2: Forest Patches DG PS Surveyed Coordinates

SI No	Patch No	Pillar Id	Easting	Northing	Latitude	Longitude
1	Patch 1_1	P1	580107.9	2501886.54	22° 37' 19.222"	81° 46' 46.239"
2		P2	580113.5	2501894.813	22° 37' 19.49"	81° 46' 46.437"
3		P3	580119.1	2501903.139	22° 37' 19.76"	81° 46' 46.633"

Global  
 Engineer  
 P.W.D. (C.G.)  
 Bilaspur

(Smt. *Prakranta Patel*)  
 Executive Engineer  
 P.W.D., N.H. Division  
 Bilaspur (C.G.)

*8*  
 वनपरिक्षेत्र अधिकारी  
 खोडरी (सा.)

*12*  
 वन परिक्षेत्राधिकारी  
 गौरेला (सा.)

उप वन मंडलाधिकारी  
 गौरेला  
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4		P4	580124.5	2501911.542	22° 37' 20.032"	81° 46' 46.824"
5		P5	580129.8	2501920.044	22° 37' 20.307"	81° 46' 47.01"
6		P6	580134.8	2501928.665	22° 37' 20.587"	81° 46' 47.189"
7		P7	580139.7	2501937.409	22° 37' 20.87"	81° 46' 47.361"
8		P8	580144.3	2501946.272	22° 37' 21.158"	81° 46' 47.525"
9		P9	580148.7	2501955.245	22° 37' 21.449"	81° 46' 47.681"
10		P10	580152.9	2501964.309	22° 37' 21.743"	81° 46' 47.831"
11		P11	580157	2501973.441	22° 37' 22.039"	81° 46' 47.975"
12		P12	580161	2501982.62	22° 37' 22.337"	81° 46' 48.116"
13		P13	580164.9	2501991.828	22° 37' 22.636"	81° 46' 48.254"
14	Patch 1_1	P14	580164.9	2501991.828	22° 37' 22.636"	81° 46' 48.254"
15		P15	580168.8	2502001.047	22° 37' 22.935"	81° 46' 48.391"
16		P16	580172.6	2502010.267	22° 37' 23.234"	81° 46' 48.529"
17		P17	580176.5	2502019.486	22° 37' 23.533"	81° 46' 48.666"
18		P18	580180.4	2502028.706	22° 37' 23.832"	81° 46' 48.803"
19		P19	580184.3	2502037.926	22° 37' 24.132"	81° 46' 48.941"
20		P20	580188.1	2502047.145	22° 37' 24.431"	81° 46' 49.078"
21		P21	580192	2502056.365	22° 37' 24.73"	81° 46' 49.215"
22	Patch 1_2	P22	582810	2503458.6	22° 38' 9.875"	81° 48' 21.183"
23		P23	582820	2503460.076	22° 38' 9.922"	81° 48' 21.53"
24		P24	582830	2503461.552	22° 38' 9.968"	81° 48' 21.877"
25		P25	582840	2503463.027	22° 38' 10.014"	81° 48' 22.223"
26		P26	582849	2503464.503	22° 38' 10.06"	81° 48' 22.57"
27		P27	582859	2503465.979	22° 38' 10.107"	81° 48' 22.917"
28		P28	582869	2503467.455	22° 38' 10.153"	81° 48' 23.264"
29		P29	582879	2503468.93	22° 38' 10.199"	81° 48' 23.61"
30		P30	582889	2503470.406	22° 38' 10.245"	81° 48' 23.957"
31		P31	582899	2503471.882	22° 38' 10.292"	81° 48' 24.304"
32		P32	582909	2503473.357	22° 38' 10.338"	81° 48' 24.651"
33		P33	582919	2503474.841	22° 38' 10.384"	81° 48' 24.997"
34		P34	582929	2503476.368	22° 38' 10.432"	81° 48' 25.344"
35		P35	582938	2503477.983	22° 38' 10.483"	81° 48' 25.69"
36		P36	582948	2503479.73	22° 38' 10.538"	81° 48' 26.035"
37		P37	582958	2503481.652	22° 38' 10.599"	81° 48' 26.379"
38		P38	582968	2503483.792	22° 38' 10.667"	81° 48' 26.722"
39		P39	582978	2503486.192	22° 38' 10.743"	81° 48' 27.062"
40		P40	582987	2503488.892	22° 38' 10.829"	81° 48' 27.4"
41		P41	582997	2503491.934	22° 38' 10.926"	81° 48' 27.734"
42		P42	583006	2503495.347	22° 38' 11.036"	81° 48' 28.064"
43		P43	583015	2503499.133	22° 38' 11.157"	81° 48' 28.389"
44		P44	583025	2503503.286	22° 38' 11.291"	81° 48' 28.709"
45		P45	583033	2503507.791	22° 38' 11.436"	81° 48' 29.022"
46	P46	583042	2503512.606	22° 38' 11.591"	81° 48' 29.33"	

47	P47	583051	2503517.687	22° 38' 11.754"	81° 48' 29.633"
48	P48	583059	2503522.992	22° 38' 11.925"	81° 48' 29.931"
49	P49	583068	2503528.481	22° 38' 12.102"	81° 48' 30.225"
50	P50	583076	2503534.113	22° 38' 12.284"	81° 48' 30.515"
51	P51	583084	2503539.851	22° 38' 12.469"	81° 48' 30.803"
52	P52	583092	2503545.658	22° 38' 12.657"	81° 48' 31.09"
53	P53	583100	2503551.497	22° 38' 12.845"	81° 48' 31.375"
54	P54	583108	2503557.341	22° 38' 13.034"	81° 48' 31.661"
55	P55	583117	2503563.184	22° 38' 13.222"	81° 48' 31.946"
56	P56	583125	2503569.015	22° 38' 13.41"	81° 48' 32.232"
57	P57	583133	2503574.801	22° 38' 13.597"	81° 48' 32.518"
58	P58	583141	2503580.503	22° 38' 13.781"	81° 48' 32.807"
59	P59	583149	2503586.085	22° 38' 13.961"	81° 48' 33.099"
60	P60	583158	2503591.509	22° 38' 14.136"	81° 48' 33.394"
61	P61	583166	2503596.734	22° 38' 14.304"	81° 48' 33.694"
62	P62	583175	2503601.719	22° 38' 14.465"	81° 48' 33.999"
63	P63	583184	2503606.422	22° 38' 14.616"	81° 48' 34.309"
64	P64	583193	2503610.797	22° 38' 14.757"	81° 48' 34.625"
65	P65	583202	2503614.811	22° 38' 14.886"	81° 48' 34.946"
66	P66	583211	2503618.456	22° 38' 15.003"	81° 48' 35.273"
67	P67	583221	2503621.726	22° 38' 15.108"	81° 48' 35.605"
68	P68	583230	2503624.615	22° 38' 15.2"	81° 48' 35.941"
69	P69	583240	2503627.125	22° 38' 15.28"	81° 48' 36.28"
70	P70	583250	2503629.286	22° 38' 15.348"	81° 48' 36.623"
71	P71	583260	2503631.139	22° 38' 15.407"	81° 48' 36.967"
72	P72	583269	2503632.726	22° 38' 15.457"	81° 48' 37.313"
73	P73	583279	2503634.089	22° 38' 15.499"	81° 48' 37.661"
74	P74	583289	2503635.273	22° 38' 15.536"	81° 48' 38.009"
75	P75	583299	2503636.322	22° 38' 15.568"	81° 48' 38.357"
76	P76	583309	2503637.278	22° 38' 15.598"	81° 48' 38.706"
77	P77	583319	2503638.187	22° 38' 15.625"	81° 48' 39.055"
78	P78	583329	2503639.086	22° 38' 15.653"	81° 48' 39.404"
79	P79	583339	2503639.986	22° 38' 15.68"	81° 48' 39.753"
80	P80	583349	2503640.885	22° 38' 15.708"	81° 48' 40.102"
81	P81	583359	2503641.785	22° 38' 15.735"	81° 48' 40.452"
82	P82	583369	2503642.684	22° 38' 15.763"	81° 48' 40.801"
83	P83	583379	2503643.584	22° 38' 15.79"	81° 48' 41.15"
84	P84	583389	2503644.483	22° 38' 15.818"	81° 48' 41.499"
85	P85	583399	2503645.383	22° 38' 15.845"	81° 48' 41.848"
86	P86	583409	2503646.282	22° 38' 15.873"	81° 48' 42.197"
87	P87	583419	2503647.182	22° 38' 15.9"	81° 48' 42.546"

88		P88	583429	2503648.081	22° 38' 15.928"	81° 48' 42.895"
89		P89	583439	2503648.981	22° 38' 15.955"	81° 48' 43.244"
90		P90	583449	2503649.88	22° 38' 15.983"	81° 48' 43.593"
91		P91	583459	2503650.78	22° 38' 16.01"	81° 48' 43.942"
92		P92	583469	2503651.679	22° 38' 16.038"	81° 48' 44.291"
93		P93	583478	2503652.578	22° 38' 16.065"	81° 48' 44.64"
94		P94	583488	2503653.478	22° 38' 16.093"	81° 48' 44.989"
95		P95	583498	2503654.377	22° 38' 16.12"	81° 48' 45.339"
96		P96	583508	2503655.277	22° 38' 16.148"	81° 48' 45.688"
97	Patch 1_3	P97	583783	2503757.157	22° 38' 19.412"	81° 48' 55.312"
98		P98	583790	2503763.243	22° 38' 19.608"	81° 48' 55.591"
99		P99	583798	2503769.272	22° 38' 19.803"	81° 48' 55.872"
100		P100	583806	2503775.208	22° 38' 19.995"	81° 48' 56.155"
101		P101	583815	2503781.013	22° 38' 20.182"	81° 48' 56.441"
102		P102	583823	2503786.649	22° 38' 20.364"	81° 48' 56.732"
103		P103	583831	2503792.078	22° 38' 20.539"	81° 48' 57.027"
104	Patch 1_4	P104	584732	2503914.105	22° 38' 24.345"	81° 49' 28.595"
105		P105	584742	2503912.184	22° 38' 24.281"	81° 49' 28.938"
106		P106	584751	2503910.263	22° 38' 24.217"	81° 49' 29.282"
107		P107	584761	2503908.342	22° 38' 24.153"	81° 49' 29.625"
108		P108	584771	2503906.42	22° 38' 24.089"	81° 49' 29.968"
109		P109	584781	2503904.499	22° 38' 24.024"	81° 49' 30.312"
110		P110	584791	2503902.578	22° 38' 23.96"	81° 49' 30.655"
111		P111	584800	2503900.657	22° 38' 23.896"	81° 49' 30.999"
112		P112	584810	2503898.736	22° 38' 23.832"	81° 49' 31.342"
113		P113	584820	2503896.815	22° 38' 23.767"	81° 49' 31.686"
114		P114	584830	2503894.894	22° 38' 23.703"	81° 49' 32.029"
115		P115	584840	2503892.973	22° 38' 23.639"	81° 49' 32.372"
116		P116	584849	2503891.052	22° 38' 23.575"	81° 49' 32.716"
117		P117	584859	2503889.131	22° 38' 23.51"	81° 49' 33.059"
118		P118	584869	2503887.21	22° 38' 23.446"	81° 49' 33.403"
119	Patch 1_5	P119	586261	2503917.1	22° 38' 24.165"	81° 50' 22.186"
120		P120	586271	2503919.541	22° 38' 24.242"	81° 50' 22.526"
121		P121	586281	2503921.74	22° 38' 24.312"	81° 50' 22.868"
122		P122	586291	2503923.711	22° 38' 24.374"	81° 50' 23.212"
123		P123	586301	2503925.497	22° 38' 24.431"	81° 50' 23.557"
124		P124	586310	2503927.14	22° 38' 24.482"	81° 50' 23.903"
125		P125	586320	2503928.686	22° 38' 24.531"	81° 50' 24.249"
126		P126	586330	2503930.179	22° 38' 24.577"	81° 50' 24.596"
127		P127	586340	2503931.661	22° 38' 24.624"	81° 50' 24.943"
128		P128	586350	2503933.142	22° 38' 24.67"	81° 50' 25.289"

129		P129	586360	2503934.624	22° 38' 24.717"	81° 50' 25.636"
130		P130	586370	2503936.105	22° 38' 24.763"	81° 50' 25.983"
131		P131	586380	2503937.587	22° 38' 24.809"	81° 50' 26.33"
132		P132	586390	2503939.068	22° 38' 24.856"	81° 50' 26.676"
133		P133	586399	2503940.558	22° 38' 24.902"	81° 50' 27.023"
134		P134	586409	2503942.09	22° 38' 24.95"	81° 50' 27.37"
135		P135	586419	2503943.706	22° 38' 25.001"	81° 50' 27.716"
136	Patch 1_6	P136	586832	2504162.492	22° 38' 32.04"	81° 50' 42.221"
137		P137	586841	2504167.673	22° 38' 32.206"	81° 50' 42.521"
138		P138	586849	2504172.853	22° 38' 32.373"	81° 50' 42.822"
139		P139	586858	2504178.033	22° 38' 32.54"	81° 50' 43.123"
140		P140	586866	2504183.214	22° 38' 32.707"	81° 50' 43.424"
141		P141	586875	2504188.394	22° 38' 32.874"	81° 50' 43.724"
142		P142	586883	2504193.576	22° 38' 33.041"	81° 50' 44.025"
143		P143	586892	2504198.78	22° 38' 33.208"	81° 50' 44.325"
144		P144	586900	2504204.045	22° 38' 33.378"	81° 50' 44.624"
145		P145	586909	2504209.406	22° 38' 33.551"	81° 50' 44.921"
146		P146	586917	2504214.901	22° 38' 33.728"	81° 50' 45.215"
147		P147	586925	2504220.564	22° 38' 33.911"	81° 50' 45.504"
148		P148	586933	2504226.431	22° 38' 34.1"	81° 50' 45.789"
149		P149	586941	2504232.531	22° 38' 34.297"	81° 50' 46.068"
150	Patch 1_7	P150	587008	2504306.79	22° 38' 36.699"	81° 50' 48.41"
151		P151	587014	2504314.97	22° 38' 36.964"	81° 50' 48.613"
152		P152	587019	2504323.171	22° 38' 37.23"	81° 50' 48.815"
153		P153	587025	2504331.376	22° 38' 37.496"	81° 50' 49.017"
154		P154	587031	2504339.58	22° 38' 37.761"	81° 50' 49.219"
155		P155	587036	2504347.784	22° 38' 38.027"	81° 50' 49.421"
156		P156	587042	2504355.988	22° 38' 38.293"	81° 50' 49.623"
157		P157	587048	2504364.193	22° 38' 38.559"	81° 50' 49.825"
158		P158	587054	2504372.397	22° 38' 38.824"	81° 50' 50.027"
159		P159	587059	2504380.597	22° 38' 39.09"	81° 50' 50.229"
160		P160	587065	2504388.77	22° 38' 39.355"	81° 50' 50.432"
161		P161	587071	2504396.891	22° 38' 39.618"	81° 50' 50.638"
162		P162	587077	2504404.932	22° 38' 39.878"	81° 50' 50.848"
163		P163	587083	2504412.866	22° 38' 40.135"	81° 50' 51.063"
164		P164	587089	2504420.662	22° 38' 40.387"	81° 50' 51.284"
165		P165	587096	2504428.287	22° 38' 40.634"	81° 50' 51.512"
166		P166	587102	2504435.706	22° 38' 40.874"	81° 50' 51.748"
167		P167	587109	2504442.881	22° 38' 41.106"	81° 50' 51.994"
168		P168	587117	2504449.777	22° 38' 41.329"	81° 50' 52.249"
169		P169	587124	2504456.377	22° 38' 41.542"	81° 50' 52.513"

170		P170	587132	2504462.672	22° 38' 41.745"	81° 50' 52.787"
171		P171	587140	2504468.651	22° 38' 41.938"	81° 50' 53.069"
172		P172	587148	2504474.305	22° 38' 42.121"	81° 50' 53.359"
173		P173	587157	2504479.625	22° 38' 42.292"	81° 50' 53.657"
174		P174	587165	2504484.602	22° 38' 42.452"	81° 50' 53.961"
175		P175	587174	2504489.228	22° 38' 42.601"	81° 50' 54.273"
176		P176	587183	2504493.495	22° 38' 42.738"	81° 50' 54.591"
177		P177	587192	2504497.398	22° 38' 42.863"	81° 50' 54.914"
178		P178	587202	2504500.929	22° 38' 42.976"	81° 50' 55.242"
179		P179	587211	2504504.084	22° 38' 43.077"	81° 50' 55.575"
180		P180	587221	2504506.856	22° 38' 43.166"	81° 50' 55.912"
181		P181	587231	2504509.243	22° 38' 43.242"	81° 50' 56.253"
182		P182	587240	2504511.239	22° 38' 43.305"	81° 50' 56.597"
183		P183	587250	2504512.841	22° 38' 43.355"	81° 50' 56.943"
184		P184	587260	2504514.047	22° 38' 43.392"	81° 50' 57.291"
185		P185	587270	2504514.856	22° 38' 43.417"	81° 50' 57.64"
186		P186	587280	2504515.265	22° 38' 43.428"	81° 50' 57.99"
187		P187	587290	2504515.275	22° 38' 43.427"	81° 50' 58.341"
188		P188	587300	2504514.885	22° 38' 43.412"	81° 50' 58.691"
189		P189	587310	2504514.095	22° 38' 43.385"	81° 50' 59.04"
190		P190	587320	2504512.907	22° 38' 43.344"	81° 50' 59.387"
191	Patch 1_8	P191	590662	2505404.974	22° 39' 11.72"	81° 52' 56.645"
192		P192	590672	2505406.649	22° 39' 11.772"	81° 52' 56.991"
193		P193	590681	2505408.324	22° 39' 11.825"	81° 52' 57.337"
194		P194	590691	2505410	22° 39' 11.877"	81° 52' 57.683"
195		P195	590701	2505411.675	22° 39' 11.93"	81° 52' 58.028"
196		P196	590711	2505413.35	22° 39' 11.983"	81° 52' 58.374"
197		P197	590721	2505415.025	22° 39' 12.035"	81° 52' 58.72"
198		P198	590731	2505416.7	22° 39' 12.088"	81° 52' 59.066"
199		P199	590741	2505418.376	22° 39' 12.14"	81° 52' 59.411"
200		P200	590750	2505420.051	22° 39' 12.193"	81° 52' 59.757"
201		P201	590760	2505421.726	22° 39' 12.245"	81° 53' 0.103"
202		P202	590770	2505423.401	22° 39' 12.298"	81° 53' 0.449"
203		P203	590780	2505425.076	22° 39' 12.351"	81° 53' 0.795"
204		P204	590790	2505426.752	22° 39' 12.403"	81° 53' 1.14"
205	Patch 1_9	P205	593736	2505811.145	22° 39' 24.324"	81° 54' 44.453"
206		P206	593746	2505812.929	22° 39' 24.38"	81° 54' 44.798"
207		P207	593756	2505814.714	22° 39' 24.436"	81° 54' 45.143"
208		P208	593766	2505816.498	22° 39' 24.493"	81° 54' 45.488"
209		P209	593776	2505818.283	22° 39' 24.549"	81° 54' 45.833"
210		P210	593786	2505820.068	22° 39' 24.605"	81° 54' 46.178"

211		P211	593795	2505821.852	22° 39' 24.661"	81° 54' 46.523"
212		P212	593805	2505823.637	22° 39' 24.717"	81° 54' 46.868"
213		P213	593815	2505825.422	22° 39' 24.773"	81° 54' 47.214"
214	Patch 1_10	P214	595306	2506218.14	22° 39' 37.243"	81° 55' 39.547"
215		P215	595316	2506220.846	22° 39' 37.329"	81° 55' 39.885"
216		P216	595326	2506223.231	22° 39' 37.405"	81° 55' 40.226"
217		P217	595335	2506225.29	22° 39' 37.47"	81° 55' 40.569"
218		P218	595345	2506227.021	22° 39' 37.524"	81° 55' 40.914"
219		P219	595355	2506228.424	22° 39' 37.568"	81° 55' 41.262"
220		P220	595365	2506229.496	22° 39' 37.6"	81° 55' 41.61"
221		P221	595375	2506230.236	22° 39' 37.622"	81° 55' 41.96"
222		P222	595385	2506230.643	22° 39' 37.634"	81° 55' 42.31"
223		P223	595395	2506230.717	22° 39' 37.634"	81° 55' 42.66"
224		P224	595405	2506230.458	22° 39' 37.624"	81° 55' 43.01"
225		P225	595415	2506229.866	22° 39' 37.602"	81° 55' 43.36"
226		P226	595425	2506228.943	22° 39' 37.57"	81° 55' 43.709"
227		P227	595435	2506227.719	22° 39' 37.528"	81° 55' 44.056"
228	P228	595445	2506226.238	22° 39' 37.478"	81° 55' 44.402"	
229	Patch 1_11	P229	595631	2506187.088	22° 39' 36.167"	81° 55' 50.907"
230		P230	595641	2506184.984	22° 39' 36.097"	81° 55' 51.249"
231		P231	595650	2506182.88	22° 39' 36.027"	81° 55' 51.592"
232		P232	595660	2506180.787	22° 39' 35.956"	81° 55' 51.934"
233		P233	595670	2506178.743	22° 39' 35.888"	81° 55' 52.276"
234		P234	595680	2506176.791	22° 39' 35.823"	81° 55' 52.619"
235		P235	595690	2506174.976	22° 39' 35.762"	81° 55' 52.964"
236		P236	595699	2506173.342	22° 39' 35.706"	81° 55' 53.309"
237		P237	595709	2506171.932	22° 39' 35.659"	81° 55' 53.655"
238		P238	595719	2506170.793	22° 39' 35.619"	81° 55' 54.003"
239		P239	595729	2506169.968	22° 39' 35.591"	81° 55' 54.352"
240		P240	595739	2506169.474	22° 39' 35.573"	81° 55' 54.702"
241		P241	595749	2506169.314	22° 39' 35.565"	81° 55' 55.052"
242		P242	595759	2506169.483	22° 39' 35.569"	81° 55' 55.403"
243		P243	595769	2506169.949	22° 39' 35.582"	81° 55' 55.753"
244		P244	595779	2506170.668	22° 39' 35.603"	81° 55' 56.102"
245		P245	595789	2506171.594	22° 39' 35.631"	81° 55' 56.451"
246		P246	595799	2506172.683	22° 39' 35.665"	81° 55' 56.8"
247		P247	595809	2506173.891	22° 39' 35.702"	81° 55' 57.148"
248		P248	595819	2506175.174	22° 39' 35.742"	81° 55' 57.496"
249		P249	595829	2506176.487	22° 39' 35.782"	81° 55' 57.843"
250		P250	595839	2506177.803	22° 39' 35.823"	81° 55' 58.191"
251		P251	595849	2506179.119	22° 39' 35.864"	81° 55' 58.538"

252	P252	595859	2506180.434	22° 39' 35.905"	81° 55' 58.886"
253	P253	595868	2506181.75	22° 39' 35.945"	81° 55' 59.234"
254	P254	595878	2506183.066	22° 39' 35.986"	81° 55' 59.581"
255	P255	595888	2506184.381	22° 39' 36.027"	81° 55' 59.929"
256	P256	595898	2506185.697	22° 39' 36.068"	81° 56' 0.277"
257	P257	595908	2506187.013	22° 39' 36.108"	81° 56' 0.624"
258	P258	595918	2506188.328	22° 39' 36.149"	81° 56' 0.972"
259	P259	595928	2506189.644	22° 39' 36.19"	81° 56' 1.319"
260	P260	595938	2506190.96	22° 39' 36.231"	81° 56' 1.667"
261	P261	595948	2506192.275	22° 39' 36.271"	81° 56' 2.015"
262	P262	595958	2506193.591	22° 39' 36.312"	81° 56' 2.362"
263	P263	595968	2506194.907	22° 39' 36.353"	81° 56' 2.71"
264	P264	595977	2506196.222	22° 39' 36.394"	81° 56' 3.057"
265	P265	595987	2506197.538	22° 39' 36.434"	81° 56' 3.405"
266	P266	595997	2506198.854	22° 39' 36.475"	81° 56' 3.753"
267	P267	596007	2506200.169	22° 39' 36.516"	81° 56' 4.1"
268	P268	596017	2506201.485	22° 39' 36.557"	81° 56' 4.448"
269	P269	596027	2506202.8	22° 39' 36.597"	81° 56' 4.795"
270	P270	596037	2506204.116	22° 39' 36.638"	81° 56' 5.143"
271	P271	596047	2506205.432	22° 39' 36.679"	81° 56' 5.491"
272	P272	596057	2506206.747	22° 39' 36.72"	81° 56' 5.838"
273	P273	596067	2506208.063	22° 39' 36.76"	81° 56' 6.186"
274	P274	596077	2506209.379	22° 39' 36.801"	81° 56' 6.533"
275	P275	596087	2506210.694	22° 39' 36.842"	81° 56' 6.881"
276	P276	596096	2506212.01	22° 39' 36.883"	81° 56' 7.229"
277	P277	596106	2506213.326	22° 39' 36.924"	81° 56' 7.576"
278	P278	596116	2506214.641	22° 39' 36.964"	81° 56' 7.924"
279	P279	596126	2506215.957	22° 39' 37.005"	81° 56' 8.272"
280	P280	596136	2506217.273	22° 39' 37.046"	81° 56' 8.619"
281	P281	596146	2506218.588	22° 39' 37.086"	81° 56' 8.967"
282	P282	596156	2506219.904	22° 39' 37.127"	81° 56' 9.314"
283	P283	596166	2506221.22	22° 39' 37.168"	81° 56' 9.662"
284	P284	596176	2506222.535	22° 39' 37.209"	81° 56' 10.01"
285	P285	596186	2506223.851	22° 39' 37.25"	81° 56' 10.357"
286	P286	596196	2506225.167	22° 39' 37.29"	81° 56' 10.705"
287	P287	596205	2506226.482	22° 39' 37.331"	81° 56' 11.052"
288	P288	596215	2506227.798	22° 39' 37.372"	81° 56' 11.4"
289	P289	596225	2506229.114	22° 39' 37.413"	81° 56' 11.748"
290	P290	596235	2506230.429	22° 39' 37.453"	81° 56' 12.095"
291	P291	596245	2506231.745	22° 39' 37.494"	81° 56' 12.443"
292	P292	596255	2506233.061	22° 39' 37.535"	81° 56' 12.79"

293		P293	596265	2506234.376	22° 39' 37.576"	81° 56' 13.138"
294		P294	596275	2506235.692	22° 39' 37.616"	81° 56' 13.486"
295		P295	596285	2506237.008	22° 39' 37.657"	81° 56' 13.833"
296		P296	596295	2506238.323	22° 39' 37.698"	81° 56' 14.181"
297		P297	596305	2506239.639	22° 39' 37.739"	81° 56' 14.528"
298		P298	596315	2506240.955	22° 39' 37.779"	81° 56' 14.876"
299		P299	596324	2506242.27	22° 39' 37.82"	81° 56' 15.224"
300		P300	596334	2506243.586	22° 39' 37.861"	81° 56' 15.571"
301		P301	596344	2506244.902	22° 39' 37.902"	81° 56' 15.919"
302		P302	596354	2506246.217	22° 39' 37.942"	81° 56' 16.267"
303		P303	596364	2506247.533	22° 39' 37.983"	81° 56' 16.614"
304		P304	596374	2506248.849	22° 39' 38.024"	81° 56' 16.962"
305		P305	596384	2506250.164	22° 39' 38.065"	81° 56' 17.309"
306		P306	596394	2506251.48	22° 39' 38.105"	81° 56' 17.657"
307		P307	596404	2506252.796	22° 39' 38.146"	81° 56' 18.005"
308		P308	596414	2506254.111	22° 39' 38.187"	81° 56' 18.352"
309		P309	596424	2506255.427	22° 39' 38.228"	81° 56' 18.7"
310		P310	596433	2506256.743	22° 39' 38.268"	81° 56' 19.047"
311		P311	596443	2506258.059	22° 39' 38.309"	81° 56' 19.395"
312		P312	596453	2506259.395	22° 39' 38.35"	81° 56' 19.743"
313	Patch 1_12	P313	596903	2506533.937	22° 39' 47.185"	81° 56' 35.574"
314		P314	596913	2506535.236	22° 39' 47.225"	81° 56' 35.922"
315		P315	596923	2506536.137	22° 39' 47.253"	81° 56' 36.271"
316		P316	596933	2506536.639	22° 39' 47.267"	81° 56' 36.621"
317		P317	596943	2506536.742	22° 39' 47.268"	81° 56' 36.971"
318		P318	596953	2506536.444	22° 39' 47.256"	81° 56' 37.322"
319		P319	596963	2506535.748	22° 39' 47.232"	81° 56' 37.671"
320		P320	596973	2506534.652	22° 39' 47.194"	81° 56' 38.019"
321		P321	596983	2506533.161	22° 39' 47.144"	81° 56' 38.365"
322		P322	596993	2506531.275	22° 39' 47.08"	81° 56' 38.709"
323		P323	597003	2506529.01	22° 39' 47.005"	81° 56' 39.049"
324		P324	597012	2506526.411	22° 39' 46.918"	81° 56' 39.387"
325		P325	597022	2506523.521	22° 39' 46.822"	81° 56' 39.722"
326		P326	597031	2506520.387	22° 39' 46.718"	81° 56' 40.054"
327		P327	597041	2506517.051	22° 39' 46.608"	81° 56' 40.383"
328		P328	597050	2506513.558	22° 39' 46.492"	81° 56' 40.711"
329		P329	597060	2506509.949	22° 39' 46.373"	81° 56' 41.037"
330		P330	597069	2506506.266	22° 39' 46.251"	81° 56' 41.362"
331		P331	597078	2506502.551	22° 39' 46.129"	81° 56' 41.686"
332		P332	597087	2506498.832	22° 39' 46.006"	81° 56' 42.011"
333		P333	597097	2506495.114	22° 39' 45.883"	81° 56' 42.335"

334		P334	597106	2506491.401	22° 39' 45.76"	81° 56' 42.66"
335		P335	597115	2506487.727	22° 39' 45.639"	81° 56' 42.985"
336		P336	597125	2506484.136	22° 39' 45.52"	81° 56' 43.311"
337		P337	597134	2506480.675	22° 39' 45.406"	81° 56' 43.639"
338	Patch 1_13	P338	598306	2506284.855	22° 39' 38.794"	81° 57' 24.658"
339		P339	598316	2506284.783	22° 39' 38.79"	81° 57' 25.009"
340		P340	598326	2506285.11	22° 39' 38.798"	81° 57' 25.359"
341		P341	598336	2506285.837	22° 39' 38.82"	81° 57' 25.708"
342		P342	598346	2506286.963	22° 39' 38.855"	81° 57' 26.057"
343		P343	598356	2506288.485	22° 39' 38.902"	81° 57' 26.403"
344		P344	598366	2506290.4	22° 39' 38.962"	81° 57' 26.748"
345		P345	598375	2506292.707	22° 39' 39.035"	81° 57' 27.089"
346		P346	598385	2506295.401	22° 39' 39.121"	81° 57' 27.427"
347		P347	598394	2506298.478	22° 39' 39.219"	81° 57' 27.761"
348		P348	598404	2506301.933	22° 39' 39.329"	81° 57' 28.091"
349		P349	598413	2506305.76	22° 39' 39.452"	81° 57' 28.415"
350		P350	598422	2506309.954	22° 39' 39.586"	81° 57' 28.734"
351		P351	598431	2506314.507	22° 39' 39.732"	81° 57' 29.047"
352		P352	598440	2506319.413	22° 39' 39.89"	81° 57' 29.354"
353		P353	598448	2506324.663	22° 39' 40.059"	81° 57' 29.653"
354		P354	598457	2506330.249	22° 39' 40.239"	81° 57' 29.945"
355		P355	598465	2506336.163	22° 39' 40.43"	81° 57' 30.229"
356		P356	598472	2506342.394	22° 39' 40.63"	81° 57' 30.504"
357		P357	598480	2506348.933	22° 39' 40.842"	81° 57' 30.77"
358		P358	598487	2506355.769	22° 39' 41.062"	81° 57' 31.028"
359		P359	598494	2506362.892	22° 39' 41.292"	81° 57' 31.275"
360		P360	598501	2506370.289	22° 39' 41.532"	81° 57' 31.513"
361		P361	598507	2506377.95	22° 39' 41.779"	81° 57' 31.74"
362		P362	598514	2506385.854	22° 39' 42.035"	81° 57' 31.956"
363		P363	598519	2506393.966	22° 39' 42.298"	81° 57' 32.163"
364		P364	598525	2506402.252	22° 39' 42.566"	81° 57' 32.361"
365		P365	598530	2506410.68	22° 39' 42.839"	81° 57' 32.551"
366		P366	598536	2506419.221	22° 39' 43.115"	81° 57' 32.735"
367		P367	598541	2506427.849	22° 39' 43.395"	81° 57' 32.914"
368	P368	598546	2506436.54	22° 39' 43.677"	81° 57' 33.089"	
369	Patch 1_14	P369	598762	2506700.43	22° 39' 52.212"	81° 57' 40.723"
370		P370	598771	2506703.745	22° 39' 52.318"	81° 57' 41.054"
371		P371	598781	2506706.679	22° 39' 52.411"	81° 57' 41.39"
372		P372	598790	2506709.229	22° 39' 52.492"	81° 57' 41.729"
373	Patch 1_15	P373	599589	2506573.977	22° 39' 47.926"	81° 58' 9.681"
374		P374	599599	2506573.842	22° 39' 47.919"	81° 58' 10.031"

375	P375	599609	2506573.707	22° 39' 47.912"	81° 58' 10.382"
376	P376	599619	2506573.572	22° 39' 47.906"	81° 58' 10.732"
377	P377	599629	2506573.437	22° 39' 47.899"	81° 58' 11.082"
378	P378	599639	2506573.302	22° 39' 47.893"	81° 58' 11.433"
379	P379	599649	2506573.168	22° 39' 47.886"	81° 58' 11.783"
380	P380	599659	2506573.033	22° 39' 47.88"	81° 58' 12.133"
381	P381	599669	2506572.898	22° 39' 47.873"	81° 58' 12.484"
382	P382	599679	2506572.763	22° 39' 47.867"	81° 58' 12.834"
383	P383	599689	2506572.628	22° 39' 47.86"	81° 58' 13.184"
384	P384	599699	2506572.493	22° 39' 47.854"	81° 58' 13.534"
385	P385	599709	2506572.358	22° 39' 47.847"	81° 58' 13.885"
386	P386	599719	2506572.223	22° 39' 47.841"	81° 58' 14.235"
387	P387	599729	2506572.089	22° 39' 47.834"	81° 58' 14.585"
388	P388	599739	2506571.954	22° 39' 47.828"	81° 58' 14.936"
389	P389	599749	2506571.819	22° 39' 47.821"	81° 58' 15.286"
390	P390	599759	2506571.684	22° 39' 47.815"	81° 58' 15.636"
391	P391	599769	2506571.549	22° 39' 47.808"	81° 58' 15.987"
392	P392	599779	2506571.414	22° 39' 47.802"	81° 58' 16.337"
393	P393	599789	2506571.279	22° 39' 47.795"	81° 58' 16.687"
394	P394	599799	2506571.145	22° 39' 47.789"	81° 58' 17.038"
395	P395	599809	2506571.01	22° 39' 47.782"	81° 58' 17.388"
396	P396	599819	2506570.875	22° 39' 47.776"	81° 58' 17.738"
397	P397	599829	2506570.74	22° 39' 47.769"	81° 58' 18.088"
398	P398	599839	2506570.605	22° 39' 47.763"	81° 58' 18.439"
399	P399	599849	2506570.47	22° 39' 47.756"	81° 58' 18.789"
400	P400	599859	2506570.335	22° 39' 47.75"	81° 58' 19.139"
401	P401	599869	2506570.2	22° 39' 47.743"	81° 58' 19.49"
402	P402	599879	2506570.066	22° 39' 47.737"	81° 58' 19.84"
403	P403	599889	2506569.931	22° 39' 47.73"	81° 58' 20.19"
404	P404	599899	2506569.796	22° 39' 47.724"	81° 58' 20.541"
405	P405	599909	2506569.661	22° 39' 47.717"	81° 58' 20.891"
406	P406	599919	2506569.526	22° 39' 47.711"	81° 58' 21.241"
407	P407	599929	2506569.391	22° 39' 47.704"	81° 58' 21.592"
408	P408	599939	2506569.256	22° 39' 47.698"	81° 58' 21.942"
409	P409	599949	2506569.122	22° 39' 47.691"	81° 58' 22.292"
410	P410	599959	2506568.987	22° 39' 47.685"	81° 58' 22.642"
411	P411	599969	2506568.852	22° 39' 47.678"	81° 58' 22.993"
412	P412	599979	2506568.717	22° 39' 47.672"	81° 58' 23.343"
413	P413	599989	2506568.582	22° 39' 47.665"	81° 58' 23.693"
414	P414	599999	2506568.447	22° 39' 47.659"	81° 58' 24.044"
415	P415	600009	2506568.312	22° 39' 47.652"	81° 58' 24.394"

416		P416	600019	2506568.177	22° 39' 47.646"	81° 58' 24.744"
417		P417	600029	2506568.043	22° 39' 47.639"	81° 58' 25.095"
418		P418	600039	2506567.908	22° 39' 47.633"	81° 58' 25.445"
419		P419	600049	2506567.773	22° 39' 47.626"	81° 58' 25.795"
420		P420	600059	2506567.638	22° 39' 47.62"	81° 58' 26.145"
421		P421	600069	2506567.503	22° 39' 47.613"	81° 58' 26.496"
422		P422	600079	2506567.368	22° 39' 47.606"	81° 58' 26.846"
423		P423	600089	2506567.22	22° 39' 47.6"	81° 58' 27.196"
424	Patch 1_16	P424	600700	2506370.703	22° 39' 41.079"	81° 58' 48.545"
425		P425	600709	2506367.02	22° 39' 40.957"	81° 58' 48.87"
426		P426	600718	2506363.577	22° 39' 40.843"	81° 58' 49.198"
427		P427	600728	2506360.421	22° 39' 40.739"	81° 58' 49.53"
428		P428	600737	2506357.597	22° 39' 40.645"	81° 58' 49.866"
429		P429	600747	2506355.147	22° 39' 40.563"	81° 58' 50.205"
430		P430	600757	2506353.086	22° 39' 40.494"	81° 58' 50.547"
431		P431	600767	2506351.419	22° 39' 40.437"	81° 58' 50.892"
432		P432	600777	2506350.146	22° 39' 40.394"	81° 58' 51.239"
433		P433	600787	2506349.272	22° 39' 40.363"	81° 58' 51.588"
434		P434	600797	2506348.797	22° 39' 40.346"	81° 58' 51.938"
435	Patch 1_17	P435	601581	2506335.358	22° 39' 39.74"	81° 59' 19.424"
436		P436	601590	2506330.842	22° 39' 39.591"	81° 59' 19.736"
437		P437	601599	2506325.972	22° 39' 39.431"	81° 59' 20.041"
438		P438	601607	2506320.757	22° 39' 39.259"	81° 59' 20.338"
439		P439	601616	2506315.205	22° 39' 39.077"	81° 59' 20.629"
440	Patch 1_18	P440	602324	2505620.578	22° 39' 16.336"	81° 59' 45.268"
441		P441	602328	2505611.646	22° 39' 16.045"	81° 59' 45.423"
442		P442	602332	2505602.541	22° 39' 15.748"	81° 59' 45.566"
443		P443	602336	2505593.287	22° 39' 15.446"	81° 59' 45.697"
444		P444	602340	2505583.911	22° 39' 15.141"	81° 59' 45.816"
445		P445	602343	2505574.438	22° 39' 14.832"	81° 59' 45.926"
446		P446	602346	2505564.889	22° 39' 14.521"	81° 59' 46.028"
447		P447	602349	2505555.283	22° 39' 14.208"	81° 59' 46.123"
448		P448	602351	2505545.634	22° 39' 13.893"	81° 59' 46.213"
449		P449	602354	2505535.956	22° 39' 13.578"	81° 59' 46.299"
450		P450	602356	2505526.261	22° 39' 13.262"	81° 59' 46.382"
451		P451	602359	2505516.56	22° 39' 12.946"	81° 59' 46.465"
452		P452	602361	2505506.86	22° 39' 12.63"	81° 59' 46.548"
453		P453	602363	2505497.159	22° 39' 12.314"	81° 59' 46.631"
454		P454	602366	2505487.458	22° 39' 11.998"	81° 59' 46.713"
455		P455	602368	2505477.757	22° 39' 11.682"	81° 59' 46.796"
456		P456	602371	2505468.056	22° 39' 11.367"	81° 59' 46.879"

457		P457	602373	2505458.355	22° 39' 11.051"	81° 59' 46.962"	
458		P458	602376	2505448.654	22° 39' 10.735"	81° 59' 47.044"	
459		P459	602378	2505438.953	22° 39' 10.419"	81° 59' 47.127"	
460		P460	602380	2505429.252	22° 39' 10.103"	81° 59' 47.21"	
461		P461	602383	2505419.552	22° 39' 9.787"	81° 59' 47.293"	
462		P462	602385	2505409.851	22° 39' 9.471"	81° 59' 47.376"	
463		P463	602388	2505400.15	22° 39' 9.155"	81° 59' 47.458"	
464		P464	602390	2505390.449	22° 39' 8.839"	81° 59' 47.541"	
465		P465	602393	2505380.748	22° 39' 8.523"	81° 59' 47.624"	
466		P466	602395	2505371.047	22° 39' 8.207"	81° 59' 47.707"	
467	Patch 1_19	P467	602474	2505092.492	22° 38' 59.132"	81° 59' 50.401"	
468		P468	602479	2505083.765	22° 38' 58.847"	81° 59' 50.57"	
469		P469	602484	2505075.239	22° 38' 58.569"	81° 59' 50.751"	
470		P470	602489	2505066.929	22° 38' 58.297"	81° 59' 50.943"	
471		P471	602495	2505058.848	22° 38' 58.033"	81° 59' 51.148"	
472		P472	602501	2505051.01	22° 38' 57.777"	81° 59' 51.364"	
473		P473	602508	2505043.425	22° 38' 57.529"	81° 59' 51.59"	
474		P474	602515	2505036.108	22° 38' 57.29"	81° 59' 51.827"	
475		Patch 1_20	P475	602917	2504739.752	22° 38' 47.565"	82° 0' 5.854"
476			P476	602925	2504733.906	22° 38' 47.373"	82° 0' 6.137"
477	P477		602933	2504728.061	22° 38' 47.181"	82° 0' 6.42"	
478	P478		602942	2504722.216	22° 38' 46.989"	82° 0' 6.703"	
479	P479		602950	2504716.37	22° 38' 46.798"	82° 0' 6.986"	
480	P480		602958	2504710.525	22° 38' 46.606"	82° 0' 7.269"	
481	P481		602966	2504704.68	22° 38' 46.414"	82° 0' 7.552"	
482	P482		602974	2504698.834	22° 38' 46.222"	82° 0' 7.834"	
483	P483		602982	2504692.989	22° 38' 46.03"	82° 0' 8.117"	
484	P484		602990	2504687.144	22° 38' 45.838"	82° 0' 8.4"	
485	P485		602998	2504681.298	22° 38' 45.647"	82° 0' 8.683"	
486	P486		603006	2504675.453	22° 38' 45.455"	82° 0' 8.966"	
487	P487		603015	2504669.608	22° 38' 45.263"	82° 0' 9.249"	
488	P488		603023	2504663.762	22° 38' 45.071"	82° 0' 9.532"	
489	P489		603031	2504657.917	22° 38' 44.879"	82° 0' 9.814"	
490	P490		603039	2504652.071	22° 38' 44.687"	82° 0' 10.097"	
491	P491		603047	2504646.226	22° 38' 44.495"	82° 0' 10.38"	
492	P492		603055	2504640.381	22° 38' 44.304"	82° 0' 10.663"	
493	P493		603063	2504634.535	22° 38' 44.112"	82° 0' 10.946"	
494	P494		603071	2504628.69	22° 38' 43.92"	82° 0' 11.229"	
495	P495		603079	2504622.845	22° 38' 43.728"	82° 0' 11.512"	
496	P496		603088	2504616.999	22° 38' 43.536"	82° 0' 11.794"	
497	P497		603096	2504611.154	22° 38' 43.344"	82° 0' 12.077"	

498		P498	603104	2504605.309	22° 38' 43.152"	82° 0' 12.36"
499		P499	603112	2504599.463	22° 38' 42.961"	82° 0' 12.643"
500		P500	603120	2504593.618	22° 38' 42.769"	82° 0' 12.926"
501		P501	603128	2504587.773	22° 38' 42.577"	82° 0' 13.209"
502		P502	603136	2504581.927	22° 38' 42.385"	82° 0' 13.492"
503		P503	603144	2504576.082	22° 38' 42.193"	82° 0' 13.774"
504		P504	603153	2504570.237	22° 38' 42.001"	82° 0' 14.057"
505		P505	603161	2504564.391	22° 38' 41.809"	82° 0' 14.34"
506		P506	603169	2504558.546	22° 38' 41.618"	82° 0' 14.623"
507		P507	603177	2504552.717	22° 38' 41.426"	82° 0' 14.906"
508		P508	603185	2504546.939	22° 38' 41.237"	82° 0' 15.191"
509		P509	603193	2504541.249	22° 38' 41.05"	82° 0' 15.478"
510		P510	603202	2504535.683	22° 38' 40.867"	82° 0' 15.767"
511		P511	603210	2504530.282	22° 38' 40.69"	82° 0' 16.061"
512		P512	603219	2504525.084	22° 38' 40.519"	82° 0' 16.359"
513		P513	603227	2504520.132	22° 38' 40.356"	82° 0' 16.662"
514		P514	603236	2504515.468	22° 38' 40.202"	82° 0' 16.971"
515		P515	603245	2504511.137	22° 38' 40.059"	82° 0' 17.286"
516		P516	603254	2504507.169	22° 38' 39.928"	82° 0' 17.606"
517		P517	603264	2504503.571	22° 38' 39.809"	82° 0' 17.932"
518		P518	603273	2504500.35	22° 38' 39.702"	82° 0' 18.263"
519		P519	603283	2504497.503	22° 38' 39.608"	82° 0' 18.598"
520		P520	603292	2504495.001	22° 38' 39.524"	82° 0' 18.937"
521		P521	603302	2504492.804	22° 38' 39.451"	82° 0' 19.278"
522	Patch 1_21	P522	605465	2504031.687	22° 38' 23.976"	82° 1' 34.949"
523		P523	605473	2504025.878	22° 38' 23.786"	82° 1' 35.233"
524		P524	605481	2504019.75	22° 38' 23.585"	82° 1' 35.508"
525		P525	605489	2504013.311	22° 38' 23.374"	82° 1' 35.775"
526		P526	605496	2504006.571	22° 38' 23.153"	82° 1' 36.032"
527		P527	605504	2503999.541	22° 38' 22.923"	82° 1' 36.279"
528		P528	605510	2503992.233	22° 38' 22.683"	82° 1' 36.517"
529		P529	605517	2503984.657	22° 38' 22.436"	82° 1' 36.743"
530		P530	605523	2503976.826	22° 38' 22.18"	82° 1' 36.959"
531		P531	605529	2503968.753	22° 38' 21.916"	82° 1' 37.164"
532		P532	605535	2503960.451	22° 38' 21.645"	82° 1' 37.357"
533		P533	605540	2503951.932	22° 38' 21.366"	82° 1' 37.539"
534		P534	605545	2503943.211	22° 38' 21.082"	82° 1' 37.708"
535		P535	605549	2503934.301	22° 38' 20.791"	82° 1' 37.865"
536		P536	605553	2503925.217	22° 38' 20.495"	82° 1' 38.009"
537		P537	605557	2503915.972	22° 38' 20.193"	82° 1' 38.14"
538		P538	605561	2503906.583	22° 38' 19.887"	82° 1' 38.258"

539		P539	605564	2503897.064	22° 38' 19.577"	82° 1' 38.363"
540		P540	605566	2503887.43	22° 38' 19.263"	82° 1' 38.455"
541		P541	605569	2503877.697	22° 38' 18.946"	82° 1' 38.533"
542		P542	605571	2503867.879	22° 38' 18.626"	82° 1' 38.597"
543		P543	605572	2503857.994	22° 38' 18.305"	82° 1' 38.647"
544		P544	605573	2503848.057	22° 38' 17.981"	82° 1' 38.684"
545	Patch 1_22	P545	605870	2502154.119	22° 37' 22.833"	82° 1' 48.659"
546		P546	605876	2502146.229	22° 37' 22.575"	82° 1' 48.872"
547		P547	605882	2502138.591	22° 37' 22.326"	82° 1' 49.096"
548		P548	605889	2502131.217	22° 37' 22.084"	82° 1' 49.331"
549		P549	605896	2502124.119	22° 37' 21.852"	82° 1' 49.576"
550	Patch 1_23	P550	606015	2502051.061	22° 37' 19.45"	82° 1' 53.713"
551		P551	606024	2502046.681	22° 37' 19.305"	82° 1' 54.027"
552		P552	606033	2502042.3	22° 37' 19.161"	82° 1' 54.341"
553		P553	606042	2502037.898	22° 37' 19.016"	82° 1' 54.655"
554		P554	606051	2502033.436	22° 37' 18.868"	82° 1' 54.967"
555		P555	606060	2502028.873	22° 37' 18.718"	82° 1' 55.277"
556		P556	606068	2502024.171	22° 37' 18.563"	82° 1' 55.585"
557		P557	606077	2502019.293	22° 37' 18.403"	82° 1' 55.89"
558		P558	606086	2502014.203	22° 37' 18.235"	82° 1' 56.19"
559		P559	606094	2502008.865	22° 37' 18.06"	82° 1' 56.485"
560	Patch 1_24	P560	606228	2501874.553	22° 37' 13.662"	82° 2' 1.131"
561		P561	606235	2501867.492	22° 37' 13.431"	82° 2' 1.378"
562		P562	606242	2501860.511	22° 37' 13.202"	82° 2' 1.627"
563		P563	606249	2501853.576	22° 37' 12.975"	82° 2' 1.877"
564		P564	606256	2501846.655	22° 37' 12.749"	82° 2' 2.129"
565		P565	606264	2501839.734	22° 37' 12.522"	82° 2' 2.38"
566		P566	606271	2501832.813	22° 37' 12.295"	82° 2' 2.631"
567		P567	606278	2501825.892	22° 37' 12.069"	82° 2' 2.882"
568		P568	606285	2501818.971	22° 37' 11.842"	82° 2' 3.133"
569		P569	606292	2501812.05	22° 37' 11.615"	82° 2' 3.384"
570		P570	606300	2501805.129	22° 37' 11.389"	82° 2' 3.635"
571		P571	606307	2501798.208	22° 37' 11.162"	82° 2' 3.886"
572		P572	606314	2501791.287	22° 37' 10.935"	82° 2' 4.138"
573		P573	606321	2501784.366	22° 37' 10.708"	82° 2' 4.389"
574		P574	606329	2501777.445	22° 37' 10.482"	82° 2' 4.64"
575		P575	606336	2501770.524	22° 37' 10.255"	82° 2' 4.891"
576		P576	606343	2501763.603	22° 37' 10.028"	82° 2' 5.142"
577		P577	606350	2501756.682	22° 37' 9.802"	82° 2' 5.393"
578		P578	606357	2501749.758	22° 37' 9.575"	82° 2' 5.644"
579	Patch 1_25	P579	606704	2501391.558	22° 36' 57.849"	82° 2' 17.683"

580		P580	606712	2501385.606	22° 36' 57.654"	82° 2' 17.963"
581		P581	606720	2501379.655	22° 36' 57.459"	82° 2' 18.243"
582		P582	606728	2501373.703	22° 36' 57.263"	82° 2' 18.523"
583		P583	606736	2501367.751	22° 36' 57.068"	82° 2' 18.803"
584		P584	606744	2501361.8	22° 36' 56.872"	82° 2' 19.083"
585		P585	606752	2501355.844	22° 36' 56.677"	82° 2' 19.363"
586		P586	606760	2501349.857	22° 36' 56.48"	82° 2' 19.642"
587		P587	606768	2501343.804	22° 36' 56.282"	82° 2' 19.919"
588		P588	606946	2501184.188	22° 36' 51.051"	82° 2' 26.131"
589	Patch 1_26	P589	606955	2501179.294	22° 36' 50.89"	82° 2' 26.436"
590		P590	606964	2501174.754	22° 36' 50.74"	82° 2' 26.746"
591		P591	606973	2501170.573	22° 36' 50.602"	82° 2' 27.064"
592		P592	606982	2501166.759	22° 36' 50.476"	82° 2' 27.386"
593		P593	606992	2501163.318	22° 36' 50.362"	82° 2' 27.714"
594		P594	607001	2501160.255	22° 36' 50.261"	82° 2' 28.047"
595		P595	607011	2501157.575	22° 36' 50.171"	82° 2' 28.384"
596		P596	607021	2501155.282	22° 36' 50.094"	82° 2' 28.724"
597		P597	607030	2501153.381	22° 36' 50.03"	82° 2' 29.067"
598		P598	607040	2501151.873	22° 36' 49.979"	82° 2' 29.413"
599	Patch 1_27	P599	607339	2501177.069	22° 36' 50.73"	82° 2' 39.868"
600		P600	607349	2501176.996	22° 36' 50.726"	82° 2' 40.219"
601		P601	607359	2501176.558	22° 36' 50.709"	82° 2' 40.568"
602		P602	607369	2501175.724	22° 36' 50.68"	82° 2' 40.917"
603		P603	607378	2501174.492	22° 36' 50.638"	82° 2' 41.264"
604		P604	607388	2501172.865	22° 36' 50.582"	82° 2' 41.61"
605		P605	607398	2501170.844	22° 36' 50.514"	82° 2' 41.952"
606		P606	607408	2501168.433	22° 36' 50.434"	82° 2' 42.291"
607		P607	607417	2501165.636	22° 36' 50.341"	82° 2' 42.627"
608		P608	607427	2501162.458	22° 36' 50.235"	82° 2' 42.958"
609	P609	607436	2501158.912	22° 36' 50.118"	82° 2' 43.285"	
610	Patch 1_28	P610	607938	2500868.527	22° 36' 40.561"	82° 3' 0.771"
611		P611	607945	2500861.622	22° 36' 40.335"	82° 3' 1.023"
612		P612	607952	2500854.432	22° 36' 40.099"	82° 3' 1.264"
613		P613	607958	2500846.971	22° 36' 39.855"	82° 3' 1.496"
614		P614	607965	2500839.249	22° 36' 39.603"	82° 3' 1.716"
615		P615	607971	2500831.279	22° 36' 39.342"	82° 3' 1.926"
616		P616	607977	2500823.075	22° 36' 39.074"	82° 3' 2.124"
617		P617	607982	2500814.648	22° 36' 38.799"	82° 3' 2.31"
618		P618	607987	2500806.013	22° 36' 38.517"	82° 3' 2.485"
619		P619	607992	2500797.183	22° 36' 38.229"	82° 3' 2.647"
620		P620	607996	2500788.172	22° 36' 37.935"	82° 3' 2.797"

621		P621	608000	2500778.995	22° 36' 37.635"	82° 3' 2.933"
622		P622	608004	2500769.667	22° 36' 37.331"	82° 3' 3.057"
623		P623	608007	2500760.202	22° 36' 37.023"	82° 3' 3.168"
624		P624	608010	2500750.617	22° 36' 36.71"	82° 3' 3.265"
625	Patch 1_29	P625	608327	2499490.353	22° 35' 55.658"	82° 3' 14.054"
626		P626	608331	2499481.587	22° 35' 55.372"	82° 3' 14.22"
627		P627	608336	2499472.82	22° 35' 55.086"	82° 3' 14.387"
628		P628	608341	2499464.054	22° 35' 54.8"	82° 3' 14.553"
629		P629	608346	2499455.288	22° 35' 54.514"	82° 3' 14.719"
630		P630	608351	2499446.521	22° 35' 54.227"	82° 3' 14.886"
631		P631	608355	2499437.755	22° 35' 53.941"	82° 3' 15.052"
632		P632	608360	2499428.989	22° 35' 53.655"	82° 3' 15.218"
633		P633	608365	2499420.222	22° 35' 53.369"	82° 3' 15.385"
634		P634	608370	2499411.456	22° 35' 53.083"	82° 3' 15.551"
635		P635	608375	2499402.69	22° 35' 52.797"	82° 3' 15.717"
636		P636	608380	2499393.924	22° 35' 52.51"	82° 3' 15.884"
637		P637	608384	2499385.157	22° 35' 52.224"	82° 3' 16.05"
638		P638	608389	2499376.391	22° 35' 51.938"	82° 3' 16.216"
639		P639	608394	2499367.625	22° 35' 51.652"	82° 3' 16.383"
640		P640	608399	2499358.858	22° 35' 51.366"	82° 3' 16.549"
641		P641	608404	2499350.092	22° 35' 51.08"	82° 3' 16.715"
642		P642	608408	2499341.326	22° 35' 50.793"	82° 3' 16.882"
643		P643	608413	2499332.559	22° 35' 50.507"	82° 3' 17.048"
644		P644	608418	2499323.793	22° 35' 50.221"	82° 3' 17.214"
645		P645	608423	2499315.027	22° 35' 49.935"	82° 3' 17.381"
646		P646	608428	2499306.26	22° 35' 49.649"	82° 3' 17.547"
647		P647	608432	2499297.494	22° 35' 49.363"	82° 3' 17.713"
648		P648	608437	2499288.728	22° 35' 49.077"	82° 3' 17.88"
649		P649	608442	2499279.961	22° 35' 48.79"	82° 3' 18.046"
650		P650	608447	2499271.195	22° 35' 48.504"	82° 3' 18.212"
651		P651	608452	2499262.429	22° 35' 48.218"	82° 3' 18.379"
652		P652	608456	2499253.662	22° 35' 47.932"	82° 3' 18.545"
653		P653	608461	2499244.896	22° 35' 47.646"	82° 3' 18.711"
654		P654	608466	2499236.13	22° 35' 47.36"	82° 3' 18.878"
655		P655	608471	2499227.36	22° 35' 47.073"	82° 3' 19.044"
656		P656	608476	2499218.571	22° 35' 46.786"	82° 3' 19.209"
657		P657	608480	2499209.741	22° 35' 46.498"	82° 3' 19.371"
658		P658	608485	2499200.848	22° 35' 46.208"	82° 3' 19.529"
659		P659	608489	2499191.876	22° 35' 45.915"	82° 3' 19.681"
660		P660	608494	2499182.808	22° 35' 45.619"	82° 3' 19.826"

# Marwahi Forest Division



*Sark*  
Sub Engg.

Sub Engineer  
N.H. (P.W.D.)  
Sub Dn. Bilaspur (C.G.)

*Patel*  
(Smt. Mamta Patel)  
Executive Engineer  
P.W.D., N.H. Division  
Bilaspur (C.G.)

64F/14 and 64J/2

वनपरिक्षेत्र अधिकारी वन परिशिष्टाधिकारी

उप वन मंडलाधिकारी  
गौरेला

## LEGEND

*Op*  
National Highway

Protected Forest/Revenue Forest