



Public Works Department National Highway Division, Bilaspur Chhattisgarh



Bilaspur 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 b 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.

Geotrax is Empanelled for DGPS Survey and mapping by Chhattisgarh Council of Science and Technology (CGCOST), Raipur, Chhattisgarh and also me 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 84.175 km. The road starts from outskirts 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



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

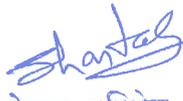
2. Scope of Work

1. Using the CMPDI established base station as reference, Geotrax 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 Geo referenced 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 shape file format and kml file
8. Printing of DGPS Survey report and Geo referenced maps.


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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. Geotrax 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 Geotrax.

4.2 Base Station DGPS Surveyed Coordinates

Station Name	Observed Geographic Co-ordinates (WGS- UTM Co-ordinates (Zone 44 N))		UTM Co-ordinates (Zone 44 N)	
	Latitude	Longitude	Easting	Northing
1	22° 38' 45.885"	81° 50' 55.658"	587213.078	2504590.435


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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 TBM	Easting	Northing	Height(m)	Latitude	Longitude	Location
TBM : 1	609111.45	2496368.5	465.015	22° 34' 13.967"	82° 3' 40.762"	Pillar
TBM : 2	609535.3	2496300.8	449.903	22° 34' 11.664"	82° 3' 55.585"	Culvert
TBM : 3	609987.42	2496215	432.363	22° 34' 8.772"	82° 4' 11.393"	Pillar
TBM : 4	609936.65	2496282.9	422.9	22° 34' 10.989"	82° 4' 9.633"	Pillar
TBM : 5	610353.62	2496189.6	402.035	22° 34' 7.861"	82° 4' 24.208"	Pillar
TBM : 8	610957.75	2495477.7	395.008	22° 33' 44.57"	82° 4' 45.18"	Pillar
TBM : 9	611340.35	2495199.4	382.137	22° 33' 35.429"	82° 4' 58.504"	Pillar
TBM : 10	611405.31	2494464.3	372.445	22° 33' 11.513"	82° 5' 0.592"	Pillar
TBM : 11	611349.83	2494078.4	368.54	22° 32' 58.976"	82° 4' 58.551"	Pillar
TBM : 12	611434.94	2493872.5	358.944	22° 32' 52.263"	82° 5' 1.479"	River
TBM : 13	611722.99	2493525	367.684	22° 32' 40.894"	82° 5' 11.474"	Culvert
TBM : 14	611676.91	2493354.8	367.648	22° 32' 35.369"	82° 5' 9.817"	Pillar
TBM : 15	611247.8	2492480	366.31	22° 32' 7.027"	82° 4' 54.575"	Pillar
TBM : 16	610552.28	2491444.4	363.89	22° 31' 33.514"	82° 4' 29.969"	Pillar
TBM : 17	609943.68	2490350.6	351.848	22° 30' 58.09"	82° 4' 8.393"	Culvert
TBM : 18	609972.32	2489924.7	359.14	22° 30' 44.236"	82° 4' 9.289"	Pillar
TBM : 19	610259.3	2488983	357.362	22° 30' 13.546"	82° 4' 19.097"	Pillar
TBM : 20	610221.28	2488814.6	355.364	22° 30' 8.082"	82° 4' 17.724"	Pillar
TBM : 21	609777.07	2488087.1	353.255	22° 29' 44.529"	82° 4' 1.997"	Culvert
TBM : 22	609591.91	2487599.6	351.339	22° 29' 28.719"	82° 3' 55.396"	Culvert
TBM : 23	609645.05	2486762	349.127	22° 29' 1.469"	82° 3' 57.047"	Pillar
TBM : 24	609693.36	2486187	348.28	22° 28' 42.76"	82° 3' 58.595"	Pillar
TBM : 25	609732.17	2485674	342.172	22° 28' 26.071"	82° 3' 59.825"	Pillar
TBM : 26	609791.08	2485191	341.307	22° 28' 10.353"	82° 4' 1.765"	Road
TBM : 27	610151.78	2484729.7	342.674	22° 27' 55.269"	82° 4' 14.27"	Culvert
TBM : 28	610256.64	2484457.9	47.264	22° 27' 46.408"	82° 4' 17.871"	Pillar
TBM : 29	609678.33	2483154.6	353.854	22° 27' 4.162"	82° 3' 57.314"	Pillar
TBM : 30	609868.89	2482172.5	349.545	22° 26' 32.182"	82° 4' 3.736"	Pillar
TBM : 31	609794.71	2481192	344.417	22° 26' 0.317"	82° 4' 0.898"	Pillar
TBM : 32	609031.43	2478877.8	336.887	22° 24' 45.241"	82° 3' 33.628"	Pillar
TBM : 33	609867.44	2478139.7	340.98	22° 24' 21.048"	82° 4' 2.683"	Pillar
TBM : 34	609807.01	2476884.4	342.82	22° 23' 40.242"	82° 4' 0.258"	Culvert
TBM : 35	610555.73	2476290.9	335.925	22° 23' 20.77"	82° 4' 26.291"	Culvert
TBM : 36	611102.52	2476040.6	340.12	22° 23' 12.504"	82° 4' 45.347"	Pillar
TBM : 37	611763.82	2475576	337.195	22° 22' 57.241"	82° 5' 8.353"	Pillar
TBM : 38	613231.65	2475339.3	333.913	22° 22' 49.198"	82° 5' 59.615"	Pillar
TBM : 39	614607.41	2474906.1	327.16	22° 22' 34.783"	82° 6' 47.606"	Pillar

Base TBM	Easting	Northing	Height(m)	Latitude	Longitude	Location
TBM : 40	615396.68	2474787.1	333.915	22° 22' 30.724"	82° 7' 15.17"	Pillar
TBM : 41	615863.67	2474490	340.639	22° 22' 20.95"	82° 7' 31.42"	Pillar
TBM : 42	616662.02	2474009.3	335.247	22° 22' 5.123"	82° 7' 59.205"	Pillar
TBM : 43	617093.86	2473888.9	337.436	22° 22' 1.102"	82° 8' 14.27"	Pillar
TBM : 44	617403.45	2473469.7	37.113	22° 21' 47.395"	82° 8' 24.983"	Culvert
TBM : 45	617584.64	2473019.1	339.663	22° 21' 32.698"	82° 8' 31.197"	Pillar
TBM : 46	617699.8	2472154	333.261	22° 21' 4.54"	82° 8' 34.994"	Pillar
TBM : 47	618058.95	2470368.7	317.02	22° 20' 6.401"	82° 8' 47.074"	Pillar
TBM : 48	618267.48	2469959.5	310.766	22° 19' 53.042"	82° 8' 54.253"	Pillar
TBM : 49	618265.79	2468715.2	322.132	22° 19' 12.582"	82° 8' 53.863"	Pillar

4.4 Field Photographs of TBM Stations



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4.5 DGPS Survey Procedure

Geotrax started the DGPS Survey using the above-mentioned 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 Base Station

DGPS survey was carried out using a pair of DGPS instrument. One DGPS Instrument was used as Base Station. 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, centerline 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, centerline, and

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

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.

5. DGPS Survey and Mapping Results

The total forest area inside the Keonchi - Ratanpur road corridor proposed for forest diversion is approximately 18.245 Ha. Out of this, the Protected Forest area is 12.266 Ha and Revenue forest area is 5.979 Ha.

There are total of 02 forest compartments touching the Road corridor boundary. Out of the 02 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							
Revenue Forest Khasras							
S.No.	Topo Sheet No.	Village Name	Khasra No.	Forest Type	Forest Range	Forest Division	Area Acquired in (Hec.)
1	64 J/3	Chhatona	375	Revenue Forest	Ratanpur Range	Bilaspur	0.596
2		Banabel	84	Revenue Forest	Ratanpur Range	Bilaspur	1.499
3		Majhwani	31/1क	Revenue Forest	Ratanpur Range	Bilaspur	0.811
4		Ratanpur	822/1क/1	Revenue Forest	Ratanpur Range	Bilaspur	0.617
5		Ratanpur	922/15	Revenue Forest	Ratanpur Range	Bilaspur	0.371
6		Ratanpur	922/1क	Revenue Forest	Ratanpur Range	Bilaspur	0.083
7		Ratanpur	2150/1	Revenue Forest	Ratanpur Range	Bilaspur	0.655
8		Ratanpur	2086	Revenue Forest	Ratanpur Range	Bilaspur	0.397
9		Ratanpur	2088	Revenue Forest	Ratanpur Range	Bilaspur	0.677
10		Ratanpur	2116	Revenue Forest	Ratanpur Range	Bilaspur	0.173
Total Revenue Forest Area in Hectares							5.879

Keonchi to Ratanpur Road Length km.84.175 Land Schedule of the Protected Forest in the road

S.No.	Topo Sheet No.	Beat Name	Compartment No.	Forest Type	Forest Range	Forest Division	Area Acquired in (Hec.)
1		Semra	2382	Protected Forest	Belgahana Range	Bilaspur	0.868 ✓
2		Kenda	2380	Protected Forest	Belgahana Range	Bilaspur	0.27 ✓
3		Kenda	2380	Protected Forest	Belgahana Range	Bilaspur	1.737 ✓
4		Silpahari	2368	Protected Forest	Belgahana Range	Bilaspur	1.277 ✓
5		Kenda	2381	Protected Forest	Belgahana Range	Bilaspur	0.814 ✓
6		Kenda	2381	Protected Forest	Belgahana Range	Bilaspur	0.299 ✓
7	64 J/3	Sodakhurd	2553	Protected Forest	Ratanpur Range	Bilaspur	0.479 ✓
8		Amamuda	2538	Protected Forest	Ratanpur Range	Bilaspur	0.181 ✓
9		Amamuda	2538	Protected Forest	Ratanpur Range	Bilaspur	0.388 ✓
10		Amamuda	2538 ✓	Protected Forest	Ratanpur Range	Bilaspur	0.458 ✓
11		Bansajhal	2528 ✓	Protected Forest	Ratanpur Range	Bilaspur	0.574 ✓
12		Jamunahi	1609 ✓	Protected Forest	Bhaisajhar Range	Kota Project Division Bilaspur	2.581 ✓
13		Podi	1613 ✓	Protected Forest	Ratanpur Range	Bilaspur	0.545 ✓
14		Ratanpur	1619 ✓	Protected Forest	Bhaisajhar Range	Kota Project Division Bilaspur	1.720 ✓
16		Ratanpur	1621 ✓	Protected Forest	Bhaisajhar Range	Kota Project Division Bilaspur	0.175 ✓
Total Proposed Protected Forest Area (Hec.)							12.366
Total Proposed Revenue Forest Area (Ha.)							5.879
Total Proposed Forest Area for diversion (Ha.)							18.245

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Keonchi to Ratanpur Road Length km.84.175 Land Schedule of the Non-Forest (Pvt+ Govt) in Hec.

Sr. No.	Name of District	Name of Tahsil	Name of Village	Forest Land(ha.)	Non-Forest Area (Pvt+ Govt) in Ha.
1	2	3	4	5	6
1	Bilaspur	Kota	Kenda	4.4160	0
2	Bilaspur	Kota	Semra	0.8640	0
3	Bilaspur	Kota	Chureli	0.0000	0
4	Bilaspur	Kota	Kusumkheda	0.0000	0.516
5	Bilaspur	Kota	Vicharpur	0.4800	0.564
6	Bilaspur	Kota	Sordakhurd	0.0000	1.344
7	Bilaspur	Kota	Chhatona	0.6000	2.095
8	Bilaspur	Kota	Amaumda	0.9860	1.248
9	Bilaspur	Kota	Banabel	1.5000	0.468
10	Bilaspur	Kota	Darsagar	0.0000	0.27
11	Bilaspur	Kota	Majhwani	0.8160	1.851
12	Bilaspur	Kota	Kanchnpur	0.0000	2.889
13	Bilaspur	Kota	Baridih	0.0000	0.528
14	Bilaspur	Kota	Bansajhal	0.5750	2.088
15	Bilaspur	Kota	Chapora	0.0000	3.696
16	Bilaspur	Kota	Khaira	0.0000	3.492
17	Bilaspur	Kota	Pondi	0.5400	0.568
18	Bilaspur	Kota	Ghasipur	0.0000	0
19	Bilaspur	Kota	Ratanpur	7.4680	17.524
Tota Forest & Non- Forest Area (Hec.)				18.245	39.141

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वनपरिक्षेत्र रतनपुर (सा.)

परिक्षेत्र अधिकारी
भैसाझार

परिक्षेत्र अधिकारी
बेलगढ़ना परिक्षेत्र

उप वनमंडलाधिकारी
उप वनमंडल कोटा (उ.ग.)
Global

उप वनमंडलाधिकारी
बिलासपुर (छ.ग.)

उप वनमंडलाधिकारी
बिलासपुर वनमंडल बिलासपुर (छ.ग.)

6. Background of Organization

Geotrax International Services (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 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).

Geotrax 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)

Geotrax 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 (for layout and quality control).

Being a client focused organization, Geotrax'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. Geotrax'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

7.1 Annexure — 1: Patch wise Forest area statement

7.1.1 PF&RF Forest Compartment Patch wise area statement

Protected Forest Compartment Patch Wise Area Statement							
S.No	Patch No.	Beat Name	Compartment No.	Forest Type	Forest Range	Forest Division	Area Acquired in (Hec.)
3	Patch No.-1	Semra	2382	Protected Forest	Belgahana Range	Bilaspur	0.868
4	Patch No.-2	Kenda	2380	Protected Forest	Belgahana Range	Bilaspur	0.27
5	Patch No.-3	Kenda	2380	Protected Forest	Belgahana Range	Bilaspur	1.737
6	Patch No.-4	Silpahari	2368	Protected Forest	Belgahana Range	Bilaspur	1.277
7	Patch No.-5	Kenda	2381	Protected Forest	Belgahana Range	Bilaspur	0.814
8	Patch No.-6	Kenda	2381	Protected Forest	Belgahana Range	Bilaspur	0.299

9	Patch No.-7	Sodakhurd	2553	Protected Forest	Ratanpur Range	Bilaspur	0.479
10	Patch No.-9	Amamudra	2538	Protected Forest	Ratanpur Range	Bilaspur	0.181
11	Patch No.-10	Amamudra	2538	Protected Forest	Ratanpur Range	Bilaspur	0.388
12	Patch No.-11	Amamudra	2538	Protected Forest	Ratanpur Range	Bilaspur	0.458
13	Patch No.-14	Bansajhal	2528	Protected Forest	Ratanpur Range	Bilaspur	0.574
14	Patch No.-15	Jamunahi	1609	Protected Forest	Bhaisajhar Range	Kota Project Division Bilaspur	2.581
16	Patch No.-16	Podi	1613	Protected Forest	Ratanpur Range	Bilaspur	0.545
17	Patch No.-17	Ratanpur	1619	Protected Forest	Bhaisajhar Range	Kota Project Division Bilaspur	1.720
19	Patch No.-26	Ratanpur	1621	Protected Forest	Bhaisajhar Range	Kota Project Division Bilaspur	0.175
Total Proposed Forest Area Belgahana Range (Hec.)							12.366
Total Proposed Protected Forest Area Ratanpur Range (Hec.)							10.469
Chhattisgarh Rajya Van Vikas Nigam Ltd Bhaisajhar Range (Hec.)							2.430
Total Proposed Protected Forest Area (Hec.)							12.366
Total Proposed Revenue Forest Area (Hec.)							5.879
Total Proposed Revenue Forest Area (Hec.)							18.245

7.1.2 Revenue Forest Patch wise area statement

Revenue Forest Patch Wise Aresa Statement							
S.No.	Patch No.	Village Name	Khasra No.	Forest Type	Forest Range	Forest Division	Area Acquired in (Hec.)
1	Patch No.-08	Chhatona	375	Revenue Forest	Ratanpur Range	Bilaspur	0.596
2	Patch No.-12	Banabel	84	Revenue Forest	Ratanpur Range	Bilaspur	1.499

3	Patch No.-13	Majhwani	31/1क	Revenue Forest	Ratanpur Range	Bilaspur	0.811
4	Patch No.-19	Ratanpur	822/1क/1	Revenue Forest	Ratanpur Range	Bilaspur	0.617
5	Patch No.-20	Ratanpur	922/15	Revenue Forest	Ratanpur Range	Bilaspur	0.371
6	Patch No.-21	Ratanpur	922/1क	Revenue Forest	Ratanpur Range	Bilaspur	0.083
7	Patch No.-22	Ratanpur	2150/1	Revenue Forest	Ratanpur Range	Bilaspur	0.655
8	Patch No.-23	Ratanpur	2086	Revenue Forest	Ratanpur Range	Bilaspur	0.397
9	Patch No.-24	Ratanpur	2088	Revenue Forest	Ratanpur Range	Bilaspur	0.677
10	Patch No.-25	Ratanpur	2116	Revenue Forest	Ratanpur Range	Bilaspur	0.173
Total Revenue Forest Area in Hectares							5.879

7.2 Annexure-2: Forest Patches DG PS Surveyed Coordinates

SI No	Patch No	Pillar Id	Easting	Northing	Latitude	Longitude
1	Patch No-1	P1	611035.2 1	2495431.71	22° 33' 43.055"	82° 4' 47.88"
2		P2	611043.2 5	2495425.76	22° 33' 42.86"	82° 4' 48.16"
3		P3	611051.2 9	2495419.82	22° 33' 42.665"	82° 4' 48.44"
4		P4	611059.3 3	2495413.87	22° 33' 42.47"	82° 4' 48.72"
5		P5	611067.3 7	2495407.93	22° 33' 42.275"	82° 4' 49"
6		P6	611075.4 2	2495401.98	22° 33' 42.08"	82° 4' 49.28"
7		P7	611083.4 6	2495396.04	22° 33' 41.884"	82° 4' 49.56"
8		P8	611091.5	2495390.1	22° 33' 41.689"	82° 4' 49.84"
9		P9	611099.5 4	2495384.15	22° 33' 41.494"	82° 4' 50.12"
10		P10	611107.5 8	2495378.21	22° 33' 41.299"	82° 4' 50.4"

11	P11	611115.6 2	2495372.26	22° 33' 41.104"	82° 4' 50.68"
12	P12	611123.6 6	2495366.32	22° 33' 40.909"	82° 4' 50.96"
13	P13	611131.7	2495360.37	22° 33' 40.713"	82° 4' 51.24"
14	P14	611139.7 5	2495354.43	22° 33' 40.518"	82° 4' 51.52"
15	P15	611147.7 9	2495348.49	22° 33' 40.323"	82° 4' 51.8"
16	P16	611155.8 3	2495342.54	22° 33' 40.128"	82° 4' 52.08"
17	P17	611163.8 7	2495336.6	22° 33' 39.933"	82° 4' 52.36"
18	P18	611171.9 1	2495330.65	22° 33' 39.737"	82° 4' 52.64"
19	P19	611179.9 5	2495324.71	22° 33' 39.542"	82° 4' 52.92"
20	P20	611187.9 9	2495318.76	22° 33' 39.347"	82° 4' 53.2"
21	P21	611196.0 4	2495312.82	22° 33' 39.152"	82° 4' 53.481"
22	P22	611204.0 8	2495306.87	22° 33' 38.957"	82° 4' 53.761"
23	P23	611212.1 2	2495300.93	22° 33' 38.761"	82° 4' 54.041"
24	P24	611220.1 6	2495294.99	22° 33' 38.566"	82° 4' 54.321"
25	P25	611228.2	2495289.04	22° 33' 38.371"	82° 4' 54.601"
26	P26	611236.2 4	2495283.1	22° 33' 38.176"	82° 4' 54.881"
27	P27	611244.2 8	2495277.15	22° 33' 37.981"	82° 4' 55.161"
28	P28	611252.3 2	2495271.2	22° 33' 37.785"	82° 4' 55.441"
29	P29	611260.3 3	2495265.22	22° 33' 37.589"	82° 4' 55.72"
30	P30	611268.2 9	2495259.17	22° 33' 37.39"	82° 4' 55.997"
31	P31	611276.1 7	2495253.01	22° 33' 37.188"	82° 4' 56.271"
32	P32	611283.9	2495246.71	22° 33'	82° 4'

			4		36.982"	56.541"
33		P33	611291.5 7	2495240.25	22° 33' 36.77"	82° 4' 56.807"
34		P34	611299.0 3	2495233.58	22° 33' 36.551"	82° 4' 57.066"
35		P35	611306.2 7	2495226.69	22° 33' 36.325"	82° 4' 57.318"
36		P36	611313.2 7	2495219.55	22° 33' 36.091"	82° 4' 57.561"
37		P37	611319.9 8	2495212.13	22° 33' 35.849"	82° 4' 57.794"
38	Patch No-2	P38	611319.9 8	2495212.13	22° 33' 35.849"	82° 4' 57.794"
39		P39	611332.4 9	2495196.53	22° 33' 35.339"	82° 4' 58.228"
40		P40	611338.2 6	2495188.37	22° 33' 35.072"	82° 4' 58.428"
41		P41	611343.7 1	2495179.98	22° 33' 34.798"	82° 4' 58.617"
42		P42	611348.8 1	2495171.39	22° 33' 34.517"	82° 4' 58.793"
43		P43	611353.5 7	2495162.59	22° 33' 34.23"	82° 4' 58.958"
44		P44	611357.9 7	2495153.61	22° 33' 33.937"	82° 4' 59.109"
45		P45	611362.0 1	2495144.46	22° 33' 33.638"	82° 4' 59.248"
46		P46	611365.6 8	2495135.16	22° 33' 33.335"	82° 4' 59.375"
47		P47	611368.9 7	2495125.72	22° 33' 33.027"	82° 4' 59.487"
48		P48	611371.8 9	2495116.16	22° 33' 32.716"	82° 4' 59.587"
49		P49	611374.4 2	2495106.48	22° 33' 32.401"	82° 4' 59.673"
50	Patch No-3	P50	611395.9 6	2494508.31	22° 33' 12.945"	82° 5' 0.275"
51		P51	611393.8 4	2494498.53	22° 33' 12.628"	82° 5' 0.199"
52		P52	611391.6 2	2494488.78	22° 33' 12.311"	82° 5' 0.119"
53		P53	611389.3 5	2494479.04	22° 33' 11.995"	82° 5' 0.037"

54	P54	611387.0 6	2494469.31	22° 33' 11.679"	82° 4' 59.954"
55	P55	611384.7 7	2494459.58	22° 33' 11.363"	82° 4' 59.871"
56	P56	611382.4 8	2494449.84	22° 33' 11.047"	82° 4' 59.789"
57	P57	611380.1 9	2494440.11	22° 33' 10.731"	82° 4' 59.706"
58	P58	611377.9	2494430.37	22° 33' 10.415"	82° 4' 59.624"
59	P59	611375.6 2	2494420.64	22° 33' 10.099"	82° 4' 59.541"
60	P60	611373.3 3	2494410.9	22° 33' 9.783"	82° 4' 59.458"
61	P61	611371.0 4	2494401.17	22° 33' 9.467"	82° 4' 59.376"
62	P62	611368.7 5	2494391.43	22° 33' 9.151"	82° 4' 59.293"
63	P63	611366.4 6	2494381.7	22° 33' 8.835"	82° 4' 59.211"
64	P64	611364.1 7	2494371.96	22° 33' 8.519"	82° 4' 59.128"
65	P65	611361.8 9	2494362.23	22° 33' 8.203"	82° 4' 59.046"
66	P66	611359.6	2494352.49	22° 33' 7.887"	82° 4' 58.963"
67	P67	611357.3 1	2494342.76	22° 33' 7.571"	82° 4' 58.88"
68	P68	611355.0 2	2494333.02	22° 33' 7.255"	82° 4' 58.798"
69	P69	611352.7 3	2494323.29	22° 33' 6.939"	82° 4' 58.715"
70	P70	611350.4 4	2494313.56	22° 33' 6.623"	82° 4' 58.633"
71	P71	611348.1 6	2494303.82	22° 33' 6.307"	82° 4' 58.55"
72	P72	611345.8 7	2494294.09	22° 33' 5.991"	82° 4' 58.467"
73	P73	611343.5 8	2494284.35	22° 33' 5.675"	82° 4' 58.385"
74	P74	611341.2 9	2494274.62	22° 33' 5.359"	82° 4' 58.302"
75	P75	611339	2494264.88	22° 33'	82° 4' 58.22"

				5.043"	
76	P76	611336.7 1	2494255.15	22° 33' 4.727"	82° 4' 58.137"
77	P77	611334.4 2	2494245.41	22° 33' 4.411"	82° 4' 58.055"
78	P78	611332.1 4	2494235.68	22° 33' 4.095"	82° 4' 57.972"
79	P79	611329.8 5	2494225.94	22° 33' 3.779"	82° 4' 57.889"
80	P80	611327.5 6	2494216.21	22° 33' 3.463"	82° 4' 57.807"
81	P81	611325.2 7	2494206.47	22° 33' 3.147"	82° 4' 57.724"
82	P82	611322.9 8	2494196.74	22° 33' 2.831"	82° 4' 57.642"
83	P83	611320.7 1	2494187	22° 33' 2.515"	82° 4' 57.559"
84	P84	611318.4 8	2494177.25	22° 33' 2.198"	82° 4' 57.479"
85	P85	611316.3 5	2494167.48	22° 33' 1.881"	82° 4' 57.402"
86	P86	611314.3 6	2494157.68	22° 33' 1.563"	82° 4' 57.33"
87	P87	611312.5 6	2494147.85	22° 33' 1.244"	82° 4' 57.264"
88	P88	611310.9 8	2494137.97	22° 33' 0.923"	82° 4' 57.206"
89	P89	611309.6 7	2494128.06	22° 33' 0.601"	82° 4' 57.158"
90	P90	611308.6 8	2494118.11	22° 33' 0.278"	82° 4' 57.121"
91	P91	611308.0 2	2494108.13	22° 32' 59.953"	82° 4' 57.095"
92	P92	611307.6 9	2494098.14	22° 32' 59.628"	82° 4' 57.081"
93	P93	611307.7	2494088.14	22° 32' 59.303"	82° 4' 57.079"
94	P94	611308.0 4	2494078.14	22° 32' 58.978"	82° 4' 57.088"
95	P95	611308.7 1	2494068.17	22° 32' 58.654"	82° 4' 57.109"
96	P96	611309.7 2	2494058.22	22° 32' 58.33"	82° 4' 57.142"

97	P97	611311.0 5	2494048.31	22° 32' 58.007"	82° 4' 57.186"
98	P98	611312.7 2	2494038.45	22° 32' 57.686"	82° 4' 57.242"
99	P99	611314.7 1	2494028.65	22° 32' 57.367"	82° 4' 57.31"
100	P100	611317.0 3	2494018.92	22° 32' 57.051"	82° 4' 57.388"
101	P101	611319.6 7	2494009.28	22° 32' 56.736"	82° 4' 57.478"
102	P102	611322.6 4	2493999.73	22° 32' 56.425"	82° 4' 57.579"
103	P103	611325.9 1	2493990.28	22° 32' 56.117"	82° 4' 57.692"
104	P104	611329.5	2493980.95	22° 32' 55.813"	82° 4' 57.815"
105	P105	611333.4	2493971.74	22° 32' 55.512"	82° 4' 57.949"
106	P106	611337.6 1	2493962.67	22° 32' 55.216"	82° 4' 58.094"
107	P107	611342.1 1	2493953.74	22° 32' 54.925"	82° 4' 58.25"
108	P108	611346.9 1	2493944.97	22° 32' 54.639"	82° 4' 58.416"
109	P109	611352	2493936.36	22° 32' 54.358"	82° 4' 58.592"
110	P110	611357.3 6	2493927.92	22° 32' 54.082"	82° 4' 58.777"
111	P111	611362.9 4	2493919.62	22° 32' 53.811"	82° 4' 58.97"
112	P112	611368.7 1	2493911.45	22° 32' 53.544"	82° 4' 59.17"
113	P113	611374.6 3	2493903.39	22° 32' 53.28"	82° 4' 59.375"
114	P114	611380.6 5	2493895.41	22° 32' 53.019"	82° 4' 59.584"
115	P115	611386.7 5	2493887.48	22° 32' 52.76"	82° 4' 59.796"
116	P116	611392.8 9	2493879.59	22° 32' 52.502"	82° 5' 0.008"
117	P117	611399.0 3	2493871.7	22° 32' 52.244"	82° 5' 0.221"
118	P118	611405.1	2493863.81	22° 32'	82° 5' 0.435"

		8		51.986"		
119		P119	611411.3 2	2493855.92	22° 32' 51.728"	82° 5' 0.648"
120		P120	611417.4 7	2493848.03	22° 32' 51.47"	82° 5' 0.861"
121		P121	611423.6 1	2493840.14	22° 32' 51.212"	82° 5' 1.074"
122		P122	611429.7 6	2493832.25	22° 32' 50.954"	82° 5' 1.287"
123		P123	611435.9	2493824.36	22° 32' 50.696"	82° 5' 1.5"
124		P124	611442.0 5	2493816.47	22° 32' 50.438"	82° 5' 1.713"
125		P125	611448.1 9	2493808.58	22° 32' 50.18"	82° 5' 1.926"
126		P126	611454.3 3	2493800.69	22° 32' 49.922"	82° 5' 2.139"
127	Patch No-3	P127	611454.3 3	2493800.69	22° 32' 49.922"	82° 5' 2.139"
128		P128	611466.6 2	2493784.91	22° 32' 49.406"	82° 5' 2.566"
129		P129	611472.7 7	2493777.03	22° 32' 49.148"	82° 5' 2.779"
130		P130	611478.9 1	2493769.14	22° 32' 48.89"	82° 5' 2.992"
131		P131	611485.0 6	2493761.25	22° 32' 48.632"	82° 5' 3.205"
132		P132	611491.2	2493753.36	22° 32' 48.374"	82° 5' 3.418"
133		P133	611497.3 5	2493745.47	22° 32' 48.116"	82° 5' 3.631"
134		P134	611503.4 9	2493737.58	22° 32' 47.858"	82° 5' 3.844"
135		P135	611509.6 4	2493729.69	22° 32' 47.6"	82° 5' 4.057"
136		P136	611515.7 8	2493721.8	22° 32' 47.342"	82° 5' 4.27"
137		P137	611521.9 3	2493713.91	22° 32' 47.084"	82° 5' 4.483"
138		P138	611528.0 7	2493706.02	22° 32' 46.826"	82° 5' 4.696"
139		P139	611534.2 1	2493698.13	22° 32' 46.568"	82° 5' 4.91"

140	P140	611540.3 6	2493690.24	22° 32' 46.31"	82° 5' 5.123"
141	P141	611546.5	2493682.35	22° 32' 46.052"	82° 5' 5.336"
142	P142	611552.6 5	2493674.46	22° 32' 45.794"	82° 5' 5.549"
143	P143	611558.7 9	2493666.57	22° 32' 45.536"	82° 5' 5.762"
144	P144	611564.9 4	2493658.68	22° 32' 45.278"	82° 5' 5.975"
145	P145	611571.0 8	2493650.79	22° 32' 45.02"	82° 5' 6.188"
146	P146	611577.2 3	2493642.9	22° 32' 44.762"	82° 5' 6.401"
147	P147	611583.3 7	2493635.01	22° 32' 44.504"	82° 5' 6.614"
148	P148	611589.5 2	2493627.12	22° 32' 44.246"	82° 5' 6.827"
149	P149	611595.6 6	2493619.24	22° 32' 43.988"	82° 5' 7.04"
150	P150	611601.8	2493611.35	22° 32' 43.73"	82° 5' 7.254"
151	P151	611607.9 5	2493603.46	22° 32' 43.472"	82° 5' 7.467"
152	P152	611614.0 8	2493595.56	22° 32' 43.214"	82° 5' 7.679"
153	P153	611620.1 6	2493587.62	22° 32' 42.955"	82° 5' 7.89"
154	P154	611626.1 6	2493579.62	22° 32' 42.693"	82° 5' 8.098"
155	P155	611632.0 5	2493571.53	22° 32' 42.429"	82° 5' 8.302"
156	P156	611637.7 7	2493563.33	22° 32' 42.161"	82° 5' 8.5"
157	P157	611643.3	2493555	22° 32' 41.888"	82° 5' 8.692"
158	P158	611648.5 9	2493546.52	22° 32' 41.611"	82° 5' 8.875"
159	P159	611653.6	2493537.86	22° 32' 41.329"	82° 5' 9.048"
160	P160	611658.2 9	2493529.03	22° 32' 41.04"	82° 5' 9.21"
161	P161	611662.6	2493520.02	22° 32'	82° 5' 9.359"

		2		40.746"		
162	P162	611666.5 9	2493510.84	22° 32' 40.447"	82° 5' 9.496"	
163	P163	611670.1 9	2493501.51	22° 32' 40.143"	82° 5' 9.62"	
164	P164	611673.4 2	2493492.05	22° 32' 39.834"	82° 5' 9.73"	
165	P165	611676.2 6	2493482.46	22° 32' 39.522"	82° 5' 9.827"	
166	P166	611678.7 2	2493472.77	22° 32' 39.206"	82° 5' 9.911"	
167	P167	611680.7 8	2493462.99	22° 32' 38.888"	82° 5' 9.981"	
168	P168	611682.4 6	2493453.13	22° 32' 38.567"	82° 5' 10.037"	
169	P169	611683.7 4	2493443.21	22° 32' 38.244"	82° 5' 10.079"	
170	P170	611684.6 2	2493433.25	22° 32' 37.92"	82° 5' 10.107"	
171	P171	611685.1	2493423.26	22° 32' 37.595"	82° 5' 10.121"	
172	P172	611685.1 8	2493413.26	22° 32' 37.27"	82° 5' 10.122"	
173	P173	611684.8 6	2493403.27	22° 32' 36.945"	82° 5' 10.108"	
174	P174	611684.1 5	2493393.29	22° 32' 36.621"	82° 5' 10.08"	
175	P175	611683.0 3	2493383.36	22° 32' 36.298"	82° 5' 10.039"	
176	P176	611681.5 2	2493373.47	22° 32' 35.977"	82° 5' 9.983"	
177	Patch No-4	P177	610733.9 9	2491596.78	22° 31' 38.428"	82° 4' 36.367"
178		P178	610727.3 1	2491589.34	22° 31' 38.188"	82° 4' 36.131"
179		P179	610720.6 3	2491581.9	22° 31' 37.947"	82° 4' 35.895"
180		P180	610713.9 5	2491574.46	22° 31' 37.707"	82° 4' 35.66"
181		P181	610707.2 7	2491567.02	22° 31' 37.466"	82° 4' 35.424"
182		P182	610700.5 8	2491559.58	22° 31' 37.226"	82° 4' 35.188"

183	P183	610693.9	2491552.14	22° 31' 36.986"	82° 4' 34.952"
184	P184	610687.2 2	2491544.7	22° 31' 36.745"	82° 4' 34.717"
185	P185	610680.5 4	2491537.26	22° 31' 36.505"	82° 4' 34.481"
186	P186	610673.8 5	2491529.82	22° 31' 36.265"	82° 4' 34.245"
187	P187	610667.1 7	2491522.38	22° 31' 36.024"	82° 4' 34.009"
188	P188	610660.4 9	2491514.94	22° 31' 35.784"	82° 4' 33.774"
189	P189	610653.8 1	2491507.5	22° 31' 35.544"	82° 4' 33.538"
190	P190	610647.1 3	2491500.06	22° 31' 35.303"	82° 4' 33.302"
191	P191	610640.4 4	2491492.62	22° 31' 35.063"	82° 4' 33.066"
192	P192	610633.7 6	2491485.18	22° 31' 34.823"	82° 4' 32.831"
193	P193	610627.0 8	2491477.75	22° 31' 34.582"	82° 4' 32.595"
194	P194	610620.4	2491470.31	22° 31' 34.342"	82° 4' 32.359"
195	P195	610613.7 1	2491462.87	22° 31' 34.102"	82° 4' 32.123"
196	P196	610607.0 3	2491455.43	22° 31' 33.861"	82° 4' 31.888"
197	P197	610600.3 5	2491447.99	22° 31' 33.621"	82° 4' 31.652"
198	P198	610593.6 7	2491440.55	22° 31' 33.381"	82° 4' 31.416"
199	P199	610586.9 9	2491433.11	22° 31' 33.14"	82° 4' 31.18"
200	P200	610580.3	2491425.67	22° 31' 32.9"	82° 4' 30.945"
201	P201	610573.6 2	2491418.23	22° 31' 32.659"	82° 4' 30.709"
202	P202	610566.9 4	2491410.79	22° 31' 32.419"	82° 4' 30.473"
203	P203	610560.2 6	2491403.35	22° 31' 32.179"	82° 4' 30.237"
204	P204	610553.5	2491395.91	22° 31'	82° 4'

		8		31.938"	30.002"
205		P205	610546.8 9	2491388.47	22° 31' 31.698" 82° 4' 29.766"
206		P206	610540.2 1	2491381.03	22° 31' 31.458" 82° 4' 29.53"
207		P207	610533.5 3	2491373.59	22° 31' 31.217" 82° 4' 29.294"
208		P208	610526.8 5	2491366.15	22° 31' 30.977" 82° 4' 29.059"
209		P209	610520.1 6	2491358.71	22° 31' 30.737" 82° 4' 28.823"
210		P210	610513.4 8	2491351.27	22° 31' 30.496" 82° 4' 28.587"
211		P211	610506.8	2491343.83	22° 31' 30.256" 82° 4' 28.351"
212	Patch No-5	P212	609970.4 3	2490750.48	22° 31' 11.087" 82° 4' 9.43"
213		P213	609964.9 3	2490742.14	22° 31' 10.817" 82° 4' 9.235"
214		P214	609959.7 6	2490733.58	22° 31' 10.54" 82° 4' 9.052"
215		P215	609954.9 3	2490724.82	22° 31' 10.256" 82° 4' 8.88"
216		P216	609950.4 6	2490715.88	22° 31' 9.967" 82° 4' 8.722"
217		P217	609946.3 5	2490706.76	22° 31' 9.671" 82° 4' 8.576"
218		P218	609942.6	2490697.49	22° 31' 9.371" 82° 4' 8.442"
219		P219	609939.2 3	2490688.08	22° 31' 9.065" 82° 4' 8.322"
220		P220	609936.2 4	2490678.53	22° 31' 8.756" 82° 4' 8.215"
221		P221	609933.6 4	2490668.88	22° 31' 8.442" 82° 4' 8.121"
222		P222	609931.4 2	2490659.13	22° 31' 8.126" 82° 4' 8.041"
223		P223	609929.5 9	2490649.3	22° 31' 7.807" 82° 4' 7.975"
224		P224	609928.1 6	2490639.4	22° 31' 7.485" 82° 4' 7.922"
225	Patch No-6	P225	610213.3 3	2489030.24	22° 31' 30.737" 82° 4' 28.823"

226		P226	610217.6 8	2489021.23	22° 30' 14.8"	82° 4' 17.65"
227		P227	610221.6 7	2489012.06	22° 30' 14.501"	82° 4' 17.787"
228		P228	610225.2 9	2489002.74	22° 30' 14.197"	82° 4' 17.911"
229		P229	610228.5 4	2488993.29	22° 30' 13.889"	82° 4' 18.023"
230		P230	610231.4	2488983.71	22° 30' 13.577"	82° 4' 18.12"
231		P231	610233.8 8	2488974.02	22° 30' 13.261"	82° 4' 18.205"
232		P232	610235.9 7	2488964.24	22° 30' 12.943"	82° 4' 18.275"
233		P233	610237.6 6	2488954.38	22° 30' 12.622"	82° 4' 18.332"
234		P234	610238.9 6	2488944.47	22° 30' 12.299"	82° 4' 18.375"
235		P235	610239.8 7	2488934.51	22° 30' 11.975"	82° 4' 18.404"
236		P236	610240.3 7	2488924.53	22° 30' 11.65"	82° 4' 18.419"
237		P237	610240.4 8	2488914.53	22° 30' 11.325"	82° 4' 18.421"
238		P238	610240.1 8	2488904.53	22° 30' 11"	82° 4' 18.408"
239		P239	610239.4 9	2488894.56	22° 30' 10.676"	82° 4' 18.381"
240		P240	610238.3 9	2488884.62	22° 30' 10.353"	82° 4' 18.34"
241		P241	610236.9	2488874.73	22° 30' 10.032"	82° 4' 18.286"
242		P242	610235.0 2	2488864.91	22° 30' 9.713"	82° 4' 18.217"
243		P243	610232.7 4	2488855.17	22° 30' 9.397"	82° 4' 18.135"
244		P244	610230.0 8	2488845.53	22° 30' 9.084"	82° 4' 18.04"
245		P245	610227.0 3	2488836.01	22° 30' 8.775"	82° 4' 17.931"
246	Patch No-7	P246	609803.6 2	2485065.84	22° 28' 6.28"	82° 4' 2.173"
247		P247	609806.5	2485056.28	22° 28'	82° 4' 2.273"

		4		5.968"	
248	P248	609809.8 4	2485046.84	22° 28' 5.66"	82° 4' 2.386"
249	P249	609813.5 1	2485037.54	22° 28' 5.357"	82° 4' 2.512"
250	P250	609817.5 5	2485028.39	22° 28' 5.059"	82° 4' 2.651"
251	P251	609821.9 6	2485019.41	22° 28' 4.766"	82° 4' 2.803"
252	P252	609826.7 2	2485010.62	22° 28' 4.479"	82° 4' 2.967"
253	P253	609831.8 2	2485002.02	22° 28' 4.198"	82° 4' 3.144"
254	P254	609837.2 7	2484993.64	22° 28' 3.924"	82° 4' 3.332"
255	P255	609843.0 5	2484985.48	22° 28' 3.657"	82° 4' 3.533"
256	P256	609849.1 5	2484977.55	22° 28' 3.398"	82° 4' 3.744"
257	P257	609855.5 6	2484969.88	22° 28' 3.147"	82° 4' 3.966"
258	P258	609862.2 7	2484962.47	22° 28' 2.905"	82° 4' 4.199"
259	P259	609869.2 8	2484955.33	22° 28' 2.671"	82° 4' 4.443"
260	P260	609876.5 4	2484948.46	22° 28' 2.446"	82° 4' 4.695"
261	P261	609884.0 3	2484941.83	22° 28' 2.229"	82° 4' 4.955"
262	P262	609891.7	2484935.41	22° 28' 2.018"	82° 4' 5.222"
263	P263	609899.5 2	2484929.18	22° 28' 1.814"	82° 4' 5.494"
264	P264	609907.4 6	2484923.11	22° 28' 1.614"	82° 4' 5.77"
265	P265	609915.4 9	2484917.15	22° 28' 1.419"	82° 4' 6.05"
266	P266	609923.5 9	2484911.28	22° 28' 1.226"	82° 4' 6.332"
267	P267	609931.7 2	2484905.46	22° 28' 1.035"	82° 4' 6.615"
268	P268	609939.8 6	2484899.65	22° 28' 0.844"	82° 4' 6.898"

269		P269	609948	2484893.84	22° 28' 0.653"	82° 4' 7.182"	
270		P270	609956.1 4	2484888.04	22° 28' 0.463"	82° 4' 7.465"	
271		P271	609964.2 8	2484882.23	22° 28' 0.272"	82° 4' 7.748"	
272	Patch No-7	P272	609972.4 2	2484876.42	22° 28' 0.081"	82° 4' 8.032"	
273		P273	609980.5 6	2484870.62	22° 27' 59.891"	82° 4' 8.315"	
274		P274	609988.7 1	2484864.81	22° 27' 59.7"	82° 4' 8.598"	
275		P275	609996.8 5	2484859	22° 27' 59.509"	82° 4' 8.882"	
276		P276	610004.9 9	2484853.2	22° 27' 59.319"	82° 4' 9.165"	
277		P277	610013.1 3	2484847.39	22° 27' 59.128"	82° 4' 9.449"	
278		P278	610021.2 7	2484841.58	22° 27' 58.937"	82° 4' 9.732"	
279		P279	610029.4 1	2484835.77	22° 27' 58.746"	82° 4' 10.015"	
280		Patch No-8	P280	610229.5 0	2484614.69	22° 27' 51.511"	82° 4' 16.96"
281			P281	610233.9 7	2484605.75	22° 27' 51.219"	82° 4' 17.115"
282			P282	610238.0 9	2484596.63	22° 27' 50.922"	82° 4' 17.256"
283	P283		610241.8 3	2484587.36	22° 27' 50.619"	82° 4' 17.385"	
284	P284		610245.2 1	2484577.95	22° 27' 50.313"	82° 4' 17.501"	
285	P285		610248.2 0	2484568.41	22° 27' 50.002"	82° 4' 17.603"	
286	P286		610250.8 1	2484558.76	22° 27' 49.687"	82° 4' 17.692"	
287	P287		610253.0 3	2484549.01	22° 27' 49.37"	82° 4' 17.767"	
288	P288		610254.8 6	2484539.18	22° 27' 49.05"	82° 4' 17.829"	
289	P289		610256.2 9	2484529.28	22° 27' 48.727"	82° 4' 17.876"	
290	P290		610257.3	2484519.33	22° 27'	82° 4' 17.91"	

		3		48.404"		
291		P291	610257.9 7	2484509.36	22° 27' 48.079"	82° 4' 17.93"
292		P292	610258.2 1	2484499.36	22° 27' 47.754"	82° 4' 17.936"
293		P293	610258.0 5	2484489.36	22° 27' 47.429"	82° 4' 17.928"
294		P294	610257.4 9	2484479.38	22° 27' 47.104"	82° 4' 17.906"
295	Patch No-9	P295	609676.9 2	2483387.26	22° 27' 11.727"	82° 3' 57.323"
296		P296	609672.6 5	2483378.22	22° 27' 11.434"	82° 3' 57.171"
297		P297	609668.6 3	2483369.06	22° 27' 11.137"	82° 3' 57.028"
298		P298	609664.9 0	2483359.79	22° 27' 10.836"	82° 3' 56.895"
299		P299	609661.5 0	2483350.38	22° 27' 10.531"	82° 3' 56.774"
300		P300	609658.4 7	2483340.85	22° 27' 10.222"	82° 3' 56.666"
301		P301	609655.8 3	2483331.21	22° 27' 9.909"	82° 3' 56.571"
302		P302	609653.5 7	2483321.47	22° 27' 9.593"	82° 3' 56.49"
303		P303	609651.7 0	2483311.64	22° 27' 9.274"	82° 3' 56.422"
304		P304	609650.2 3	2483301.75	22° 27' 8.952"	82° 3' 56.368"
305		P305	609649.1 6	2483291.81	22° 27' 8.629"	82° 3' 56.328"
306		P306	609648.4 8	2483281.84	22° 27' 8.305"	82° 3' 56.302"
307		P307	609648.2 1	2483271.84	22° 27' 7.98"	82° 3' 56.29"
308		P308	609648.3 3	2483261.84	22° 27' 7.655"	82° 3' 56.291"
309		P309	609648.8 5	2483251.86	22° 27' 7.33"	82° 3' 56.307"
310		P310	609649.7 8	2483241.90	22° 27' 7.006"	82° 3' 56.337"
311		P311	609651.1 0	2483231.99	22° 27' 6.684"	82° 3' 56.381"

312		P312	609652.7 9	2483222.13	22° 27' 6.363"	82° 3' 56.438"
313		P313	609654.8 1	2483212.34	22° 27' 6.044"	82° 3' 56.506"
314		P314	609657.1 1	2483202.61	22° 27' 5.727"	82° 3' 56.584"
315	Patch No- 10	P315	609528.7 0	2480339.67	22° 25' 32.662"	82° 3' 51.382"
316		P316	609524.1 1	2480330.79	22° 25' 32.374"	82° 3' 51.219"
317		P317	609519.4 9	2480321.92	22° 25' 32.087"	82° 3' 51.055"
318		P318	609514.7 9	2480313.09	22° 25' 31.801"	82° 3' 50.889"
319		P319	609510.0 2	2480304.30	22° 25' 31.517"	82° 3' 50.72"
320		P320	609505.1 8	2480295.55	22° 25' 31.233"	82° 3' 50.548"
321		P321	609500.2 6	2480286.84	22° 25' 30.951"	82° 3' 50.374"
322		P322	609495.2 7	2480278.18	22° 25' 30.67"	82° 3' 50.197"
323		P323	609490.2 2	2480269.55	22° 25' 30.391"	82° 3' 50.018"
324		P324	609485.1 4	2480260.93	22° 25' 30.112"	82° 3' 49.839"
325		P325	609480.0 7	2480252.31	22° 25' 29.833"	82° 3' 49.659"
326		P326	609475.0 0	2480243.70	22° 25' 29.554"	82° 3' 49.48"
327		P327	609469.9 3	2480235.08	22° 25' 29.275"	82° 3' 49.3"
328		P328	609464.8 5	2480226.46	22° 25' 28.996"	82° 3' 49.121"
329		P329	609459.7 8	2480217.84	22° 25' 28.717"	82° 3' 48.941"
330		P330	609454.7 1	2480209.22	22° 25' 28.438"	82° 3' 48.761"
331		P331	609449.6 4	2480200.60	22° 25' 28.158"	82° 3' 48.582"
332		P332	609444.5 7	2480191.99	22° 25' 27.879"	82° 3' 48.402"
333		P333	609439.4	2480183.37	22° 25' 27.6"	82° 3'

		9			48.223"
334	P334	609434.4 2	2480174.75	22° 25' 27.321"	82° 3' 48.043"
335	P335	609429.3 5	2480166.13	22° 25' 27.042"	82° 3' 47.864"
336	P336	609424.2 8	2480157.51	22° 25' 26.763"	82° 3' 47.684"
337	P337	609419.2 0	2480148.90	22° 25' 26.484"	82° 3' 47.505"
338	P338	609414.1 3	2480140.28	22° 25' 26.205"	82° 3' 47.325"
339	P339	609409.0 6	2480131.66	22° 25' 25.926"	82° 3' 47.146"
340	P340	609403.9 9	2480123.04	22° 25' 25.647"	82° 3' 46.966"
341	P341	609398.9 1	2480114.42	22° 25' 25.368"	82° 3' 46.786"
342	P342	609393.8 7	2480105.79	22° 25' 25.088"	82° 3' 46.608"
343	P343	609388.9 0	2480097.11	22° 25' 24.807"	82° 3' 46.432"
344	P344	609384.0 0	2480088.39	22° 25' 24.525"	82° 3' 46.258"
345	P345	609379.1 8	2480079.64	22° 25' 24.241"	82° 3' 46.087"
346	P346	609374.4 2	2480070.84	22° 25' 23.956"	82° 3' 45.919"
347	P347	609369.7 4	2480062.00	22° 25' 23.67"	82° 3' 45.753"
348	P348	609365.1 4	2480053.12	22° 25' 23.382"	82° 3' 45.59"
349	P349	609360.6 1	2480044.21	22° 25' 23.093"	82° 3' 45.429"
350	P350	609356.1 5	2480035.26	22° 25' 22.803"	82° 3' 45.271"
351	P351	609351.7 7	2480026.27	22° 25' 22.512"	82° 3' 45.116"
352	P352	609347.4 6	2480017.24	22° 25' 22.22"	82° 3' 44.963"
353	P353	609343.2 3	2480008.18	22° 25' 21.926"	82° 3' 44.813"
354	P354	609339.0 7	2479999.09	22° 25' 21.631"	82° 3' 44.665"

355	P355	609334.9 9	2479989.96	22° 25' 21.335"	82° 3' 44.52"
356	P356	609330.9 2	2479980.82	22° 25' 21.039"	82° 3' 44.375"
357	P357	609326.8 5	2479971.69	22° 25' 20.743"	82° 3' 44.231"
358	P358	609322.7 9	2479962.55	22° 25' 20.447"	82° 3' 44.086"
359	P359	609318.7 2	2479953.42	22° 25' 20.151"	82° 3' 43.942"
360	P360	609314.6 5	2479944.28	22° 25' 19.855"	82° 3' 43.797"
361	P361	609310.5 9	2479935.15	22° 25' 19.559"	82° 3' 43.653"
362	P362	609306.5 2	2479926.01	22° 25' 19.262"	82° 3' 43.508"
363	P363	609302.4 5	2479916.87	22° 25' 18.966"	82° 3' 43.364"
364	P364	609298.3 9	2479907.74	22° 25' 18.67"	82° 3' 43.219"
365	P365	609294.3 2	2479898.60	22° 25' 18.374"	82° 3' 43.075"
366	P366	609290.2 5	2479889.47	22° 25' 18.078"	82° 3' 42.93"
367	P367	609286.1 9	2479880.33	22° 25' 17.782"	82° 3' 42.786"
368	P368	609282.1 2	2479871.20	22° 25' 17.486"	82° 3' 42.641"
369	P369	609278.0 5	2479862.06	22° 25' 17.189"	82° 3' 42.497"
370	P370	609273.9 8	2479852.93	22° 25' 16.893"	82° 3' 42.352"
371	P371	609269.9 2	2479843.79	22° 25' 16.597"	82° 3' 42.208"
372	P372	609265.8 5	2479834.65	22° 25' 16.301"	82° 3' 42.063"
373	P373	609261.7 8	2479825.52	22° 25' 16.005"	82° 3' 41.919"
374	P374	609257.7 2	2479816.38	22° 25' 15.709"	82° 3' 41.774"
375	P375	609253.6 5	2479807.25	22° 25' 15.413"	82° 3' 41.63"
376	P376	609249.5	2479798.11	22° 25'	82° 3'

			8		15.117"	41.485"
377		P377	609245.5 2	2479788.98	22° 25' 14.82"	82° 3' 41.341"
378		P378	609241.4 5	2479779.84	22° 25' 14.524"	82° 3' 41.196"
379	Patch No- 11	P379	609499.7 5	2478507.16	22° 24' 33.081"	82° 3' 49.915"
380		P380	609505.6 7	2478499.10	22° 24' 32.818"	82° 3' 50.12"
381		P381	609511.5 8	2478491.04	22° 24' 32.554"	82° 3' 50.325"
382		P382	609517.5 0	2478482.98	22° 24' 32.291"	82° 3' 50.53"
383		P383	609523.4 2	2478474.92	22° 24' 32.027"	82° 3' 50.735"
384		P384	609529.3 4	2478466.86	22° 24' 31.764"	82° 3' 50.94"
385		P385	609535.2 5	2478458.80	22° 24' 31.5"	82° 3' 51.145"
386		P386	609541.1 7	2478450.74	22° 24' 31.237"	82° 3' 51.35"
387		P387	609547.0 9	2478442.67	22° 24' 30.973"	82° 3' 51.555"
388		P388	609553.0 1	2478434.61	22° 24' 30.71"	82° 3' 51.76"
389		P389	609558.9 2	2478426.55	22° 24' 30.446"	82° 3' 51.965"
390		P390	609564.8 4	2478418.49	22° 24' 30.183"	82° 3' 52.17"
391		P391	609570.7 6	2478410.43	22° 24' 29.919"	82° 3' 52.374"
392		P392	609576.6 8	2478402.37	22° 24' 29.656"	82° 3' 52.579"
393		P393	609582.6 0	2478394.31	22° 24' 29.392"	82° 3' 52.784"
394		P394	609588.5 5	2478386.27	22° 24' 29.13"	82° 3' 52.991"
395		P395	609594.6 0	2478378.32	22° 24' 28.869"	82° 3' 53.2"
396		P396	609600.8 2	2478370.49	22° 24' 28.613"	82° 3' 53.416"
397		P397	609607.2 7	2478362.84	22° 24' 28.363"	82° 3' 53.639"

398		P398	609613.9 6	2478355.41	22° 24' 28.12"	82° 3' 53.872"
399		P399	609620.9 0	2478348.21	22° 24' 27.884"	82° 3' 54.113"
400		P400	609628.0 7	2478341.24	22° 24' 27.656"	82° 3' 54.362"
401		P401	609635.4 7	2478334.52	22° 24' 27.436"	82° 3' 54.619"
402		P402	609643.1 0	2478328.05	22° 24' 27.224"	82° 3' 54.884"
403		P403	609650.9 3	2478321.83	22° 24' 27.02"	82° 3' 55.156"
404		P404	609658.9 6	2478315.88	22° 24' 26.824"	82° 3' 55.436"
405		P405	609667.1 6	2478310.15	22° 24' 26.636"	82° 3' 55.721"
406		P406	609675.4 7	2478304.59	22° 24' 26.454"	82° 3' 56.01"
407		P407	609683.8 5	2478299.13	22° 24' 26.274"	82° 3' 56.302"
408		P408	609692.2 4	2478293.70	22° 24' 26.095"	82° 3' 56.594"
409		P409	609700.6 4	2478288.26	22° 24' 25.917"	82° 3' 56.886"
410		P410	609709.0 3	2478282.82	22° 24' 25.738"	82° 3' 57.178"
411		P411	609717.3 9	2478277.34	22° 24' 25.558"	82° 3' 57.469"
412		P412	609725.6 8	2478271.74	22° 24' 25.374"	82° 3' 57.758"
413		P413	609733.8 5	2478265.97	22° 24' 25.184"	82° 3' 58.042"
414	Patch No- 12	P414	613378.2 8	2475305.37	22° 22' 48.06"	82° 6' 4.733"
415		P415	613387.7 6	2475302.19	22° 22' 47.955"	82° 6' 5.064"
416		P416	613397.2 0	2475298.88	22° 22' 47.845"	82° 6' 5.393"
417		P417	613406.6 0	2475295.48	22° 22' 47.732"	82° 6' 5.721"
418		P418	613415.9 9	2475292.03	22° 22' 47.618"	82° 6' 6.048"
419		P419	613425.3	2475288.57	22° 22'	82° 6' 6.376"

		7		47.503"	
420		P420 613434.7 5	2475285.11	22° 22' 47.388"	82° 6' 6.703"
421		P421 613444.1 3	2475281.65	22° 22' 47.273"	82° 6' 7.03"
422		P422 613453.5 2	2475278.19	22° 22' 47.159"	82° 6' 7.357"
423		P423 613462.9 0	2475274.74	22° 22' 47.044"	82° 6' 7.684"
424		P424 613472.2 8	2475271.28	22° 22' 46.929"	82° 6' 8.011"
425		P425 613481.6 6	2475267.82	22° 22' 46.814"	82° 6' 8.339"
426		P426 613491.0 5	2475264.36	22° 22' 46.7"	82° 6' 8.666"
427		P427 613500.4 3	2475260.90	22° 22' 46.585"	82° 6' 8.993"
428		P428 613509.8 1	2475257.44	22° 22' 46.47"	82° 6' 9.32"
429		P429 613519.1 9	2475253.98	22° 22' 46.356"	82° 6' 9.647"
430		P430 613528.5 8	2475250.52	22° 22' 46.241"	82° 6' 9.974"
431		P431 613537.9 6	2475247.06	22° 22' 46.126"	82° 6' 10.302"
432		P432 613547.3 4	2475243.60	22° 22' 46.011"	82° 6' 10.629"
433		P433 613556.7 2	2475240.14	22° 22' 45.897"	82° 6' 10.956"
434		P434 613566.1 1	2475236.68	22° 22' 45.782"	82° 6' 11.283"
435		P435 613575.4 9	2475233.22	22° 22' 45.667"	82° 6' 11.61"
436		P436 613584.8 7	2475229.76	22° 22' 45.552"	82° 6' 11.937"
437		P437 613594.2 5	2475226.30	22° 22' 45.438"	82° 6' 12.265"
438		P438 613603.6 4	2475222.84	22° 22' 45.323"	82° 6' 12.592"
439	Patch No- 13	P439 618223.9 6	2470011.88	22° 19' 54.757"	82° 8' 52.746"
440		P440 618228.4 3	2470002.94	22° 19' 54.465"	82° 8' 52.9"

441	P441	618232.6 7	2469993.88	22° 19' 54.169"	82° 8' 53.046"
442	P442	618236.6 5	2469984.71	22° 19' 53.87"	82° 8' 53.183"
443	P443	618240.3 2	2469975.41	22° 19' 53.567"	82° 8' 53.308"
444	P444	618243.6 3	2469965.97	22° 19' 53.259"	82° 8' 53.421"
445	P445	618246.5 6	2469956.41	22° 19' 52.947"	82° 8' 53.521"
446	P446	618249.1 0	2469946.74	22° 19' 52.632"	82° 8' 53.608"
447	P447	618251.2 6	2469936.98	22° 19' 52.314"	82° 8' 53.68"
448	P448	618253.0 3	2469927.13	22° 19' 51.994"	82° 8' 53.74"
449	P449	618254.3 9	2469917.23	22° 19' 51.672"	82° 8' 53.785"
450	P450	618255.3 7	2469907.28	22° 19' 51.348"	82° 8' 53.816"
451	P451	618255.9 4	2469897.29	22° 19' 51.023"	82° 8' 53.834"
452	P452	618256.1 2	2469887.30	22° 19' 50.698"	82° 8' 53.837"
453	P453	618255.8 9	2469877.30	22° 19' 50.373"	82° 8' 53.826"
454	P454	618255.2 8	2469867.32	22° 19' 50.048"	82° 8' 53.803"
455	P455	618254.3 4	2469857.36	22° 19' 49.725"	82° 8' 53.767"
456	P456	618253.1 0	2469847.44	22° 19' 49.403"	82° 8' 53.721"
457	P457	618251.6 2	2469837.55	22° 19' 49.081"	82° 8' 53.667"
458	P458	618249.9 3	2469827.70	22° 19' 48.761"	82° 8' 53.605"
459	P459	618248.0 9	2469817.87	22° 19' 48.442"	82° 8' 53.538"
460	P460	618246.1 3	2469808.06	22° 19' 48.124"	82° 8' 53.467"
461	P461	618244.1 0	2469798.27	22° 19' 47.806"	82° 8' 53.393"
462	P462	618242.0	2469788.48	22° 19'	82° 8'

		4		47.488"	53.319"
463	P463	618239.9 8	2469778.70	22° 19' 47.171"	82° 8' 53.244"
464	P464	618237.9 2	2469768.91	22° 19' 46.853"	82° 8' 53.169"
465	P465	618235.8 6	2469759.13	22° 19' 46.535"	82° 8' 53.095"
466	P466	618233.8 0	2469749.34	22° 19' 46.217"	82° 8' 53.02"
467	P467	618231.7 4	2469739.56	22° 19' 45.9"	82° 8' 52.946"
468	P468	618229.6 8	2469729.77	22° 19' 45.582"	82° 8' 52.871"
469	P469	618227.6 2	2469719.98	22° 19' 45.264"	82° 8' 52.797"
470	P470	618262.5 3	2468663.06	22° 19' 10.888"	82° 8' 53.735"
471	P471	618263.2 8	2468653.09	22° 19' 10.564"	82° 8' 53.759"
472	P472	618264.2 0	2468643.13	22° 19' 10.24"	82° 8' 53.788"
473	P473	618265.3 1	2468633.19	22° 19' 9.916"	82° 8' 53.824"
474	P474	618266.6 1	2468623.28	22° 19' 9.594"	82° 8' 53.868"
475	P475	618268.1 2	2468613.39	22° 19' 9.272"	82° 8' 53.917"
476	P476	618269.8 2	2468603.54	22° 19' 8.951"	82° 8' 53.974"
477	P477	618271.6 9	2468593.72	22° 19' 8.631"	82° 8' 54.037"
478	P478	618273.6 7	2468583.92	22° 19' 8.312"	82° 8' 54.104"
479	P479	618275.7 4	2468574.13	22° 19' 7.993"	82° 8' 54.173"
480	P480	618277.8 4	2468564.35	22° 19' 7.675"	82° 8' 54.244"
481	P481	618279.9 4	2468554.58	22° 19' 7.356"	82° 8' 54.315"
482	P482	618282.0 4	2468544.80	22° 19' 7.038"	82° 8' 54.386"
483	P483	618284.1 4	2468535.02	22° 19' 6.72"	82° 8' 54.457"

Patch No-
14

484	P484	618286.2 5	2468525.25	22° 19' 6.401"	82° 8' 54.528"
485	P485	618288.3 5	2468515.47	22° 19' 6.083"	82° 8' 54.598"
486	P486	618290.4 5	2468505.69	22° 19' 5.764"	82° 8' 54.669"
487	P487	618292.5 5	2468495.92	22° 19' 5.446"	82° 8' 54.74"
488	P488	618294.6 6	2468486.14	22° 19' 5.127"	82° 8' 54.811"
489	P489	618296.7 6	2468476.36	22° 19' 4.809"	82° 8' 54.882"
490	P490	618298.8 6	2468466.59	22° 19' 4.491"	82° 8' 54.953"
491	P491	618300.9 6	2468456.81	22° 19' 4.172"	82° 8' 55.024"
492	P492	618303.0 6	2468447.03	22° 19' 3.854"	82° 8' 55.094"
493	P493	618305.1 7	2468437.26	22° 19' 3.535"	82° 8' 55.165"
494	P494	618307.2 7	2468427.48	22° 19' 3.217"	82° 8' 55.236"
495	P495	618309.3 7	2468417.71	22° 19' 2.899"	82° 8' 55.307"
496	P496	618311.4 7	2468407.93	22° 19' 2.58"	82° 8' 55.378"
497	P497	618313.5 8	2468398.15	22° 19' 2.262"	82° 8' 55.449"
498	P498	618315.6 8	2468388.38	22° 19' 1.943"	82° 8' 55.52"
499	P499	618317.7 5	2468378.59	22° 19' 1.625"	82° 8' 55.59"
500	P500	618319.7 6	2468368.80	22° 19' 1.306"	82° 8' 55.657"
501	P501	618321.6 5	2468358.98	22° 19' 0.986"	82° 8' 55.721"
502	P502	618323.3 8	2468349.13	22° 19' 0.665"	82° 8' 55.779"
503	P503	618324.9 2	2468339.25	22° 19' 0.343"	82° 8' 55.829"
504	P504	618326.2 0	2468329.33	22° 19' 0.021"	82° 8' 55.872"
505	P505	618327.2	2468319.38	22° 18'	82° 8'

		0		59.697"	55.904"
506	P506	618327.8 6	2468309.40	22° 18' 59.372"	82° 8' 55.924"
507	P507	618328.1 4	2468299.41	22° 18' 59.047"	82° 8' 55.932"
508	P508	618328.0 2	2468289.41	22° 18' 58.722"	82° 8' 55.925"
509	P509	618327.5 3	2468279.42	22° 18' 58.397"	82° 8' 55.905"
510	P510	618326.7 2	2468269.46	22° 18' 58.074"	82° 8' 55.874"
511	P511	618325.6 2	2468259.52	22° 18' 57.751"	82° 8' 55.833"
512	P512	618324.2 8	2468249.61	22° 18' 57.429"	82° 8' 55.783"
513	P513	618322.7 5	2468239.72	22° 18' 57.108"	82° 8' 55.727"
514	P514	618321.0 7	2468229.87	22° 18' 56.788"	82° 8' 55.666"
515	P515	618319.2 8	2468220.03	22° 18' 56.468"	82° 8' 55.601"
516	P516	618317.4 3	2468210.20	22° 18' 56.149"	82° 8' 55.534"
517	P517	618315.5 7	2468200.38	22° 18' 55.83"	82° 8' 55.466"
518	P518	618313.7 0	2468190.55	22° 18' 55.511"	82° 8' 55.398"
519	P519	618311.8 4	2468180.73	22° 18' 55.192"	82° 8' 55.33"
520	P520	618309.9 7	2468170.90	22° 18' 54.873"	82° 8' 55.262"
521	P521	618308.1 1	2468161.08	22° 18' 54.554"	82° 8' 55.195"
522	P522	618306.2 4	2468151.25	22° 18' 54.235"	82° 8' 55.127"
523	P523	618304.3 8	2468141.43	22° 18' 53.916"	82° 8' 55.059"
524	P524	618302.5 1	2468131.60	22° 18' 53.597"	82° 8' 54.991"
525	P525	618300.6 5	2468121.78	22° 18' 53.278"	82° 8' 54.923"
526	P526	618298.7 8	2468111.95	22° 18' 52.959"	82° 8' 54.856"

527	P527	618296.9 2	2468102.13	22° 18' 52.64"	82° 8' 54.788"
528	P528	618295.0 5	2468092.31	22° 18' 52.321"	82° 8' 54.72"
529	P529	618293.1 9	2468082.48	22° 18' 52.002"	82° 8' 54.652"
530	P530	618291.3 2	2468072.66	22° 18' 51.683"	82° 8' 54.584"
531	P531	618289.4 6	2468062.83	22° 18' 51.364"	82° 8' 54.517"
532	P532	618287.5 9	2468053.01	22° 18' 51.045"	82° 8' 54.449"
533	P533	618285.7 2	2468043.18	22° 18' 50.726"	82° 8' 54.381"
534	P534	618283.8 6	2468033.36	22° 18' 50.407"	82° 8' 54.313"
535	P535	618281.9 9	2468023.53	22° 18' 50.088"	82° 8' 54.245"
536	P536	618280.1 3	2468013.71	22° 18' 49.769"	82° 8' 54.178"
537	P537	618278.2 6	2468003.89	22° 18' 49.45"	82° 8' 54.11"
538	P538	618276.4 0	2467994.06	22° 18' 49.131"	82° 8' 54.042"
539	P539	618274.5 3	2467984.24	22° 18' 48.812"	82° 8' 53.974"
540	P540	618272.6 7	2467974.41	22° 18' 48.493"	82° 8' 53.906"
541	P541	618270.8 0	2467964.59	22° 18' 48.174"	82° 8' 53.839"
542	P542	618268.9 4	2467954.76	22° 18' 47.855"	82° 8' 53.771"
543	P543	618267.0 7	2467944.94	22° 18' 47.536"	82° 8' 53.703"
544	P544	618265.2 1	2467935.11	22° 18' 47.217"	82° 8' 53.635"
545	P545	618263.3 4	2467925.29	22° 18' 46.898"	82° 8' 53.567"
546	P546	618261.4 8	2467915.46	22° 18' 46.579"	82° 8' 53.5"
547	P547	618259.6 1	2467905.64	22° 18' 46.26"	82° 8' 53.432"
548	P548	618257.7	2467895.82	22° 18'	82° 8'

		4		45.941"	53.364"
549	P549	618255.8 8	2467885.99	22° 18' 45.622"	82° 8' 53.296"
550	P550	618254.0 1	2467876.17	22° 18' 45.303"	82° 8' 53.228"
551	P551	618252.1 5	2467866.34	22° 18' 44.984"	82° 8' 53.161"
552	P552	618250.2 8	2467856.52	22° 18' 44.665"	82° 8' 53.093"
553	P553	618248.4 2	2467846.69	22° 18' 44.346"	82° 8' 53.025"
554	P554	618246.5 5	2467836.87	22° 18' 44.027"	82° 8' 52.957"
555	P555	618244.6 5	2467827.05	22° 18' 43.708"	82° 8' 52.888"
556	P556	618242.6 8	2467817.25	22° 18' 43.39"	82° 8' 52.817"
557	P557	618240.5 9	2467807.47	22° 18' 43.073"	82° 8' 52.741"
558	P558	618238.3 5	2467797.72	22° 18' 42.756"	82° 8' 52.66"
559	P559	618235.9 1	2467788.03	22° 18' 42.442"	82° 8' 52.572"
560	P560	618233.2 8	2467778.38	22° 18' 42.129"	82° 8' 52.478"
561	P561	618230.4 5	2467768.79	22° 18' 41.817"	82° 8' 52.377"
562	P562	618227.4 4	2467759.25	22° 18' 41.508"	82° 8' 52.269"
563	P563	618224.2 3	2467749.78	22° 18' 41.201"	82° 8' 52.154"
564	P564	618220.8 7	2467740.36	22° 18' 40.895"	82° 8' 52.034"
565	P565	618217.3 8	2467730.99	22° 18' 40.592"	82° 8' 51.91"
566	P566	618213.8 2	2467721.65	22° 18' 40.289"	82° 8' 51.783"
567	P567	618210.2 2	2467712.32	22° 18' 39.986"	82° 8' 51.654"
568	P568	618206.6 2	2467702.99	22° 18' 39.684"	82° 8' 51.526"
569	P569	618203.0 1	2467693.66	22° 18' 39.381"	82° 8' 51.398"

570		P570	618199.4 1	2467684.33	22° 18' 39.079"	82° 8' 51.269"
571		P571	618195.8 1	2467675.00	22° 18' 38.776"	82° 8' 51.141"
572		P572	618192.2 0	2467665.67	22° 18' 38.474"	82° 8' 51.012"
573		P573	618188.6 0	2467656.35	22° 18' 38.172"	82° 8' 50.884"
574		P574	618185.0 0	2467647.02	22° 18' 37.869"	82° 8' 50.756"
575	Patch No- 15	P575	617990.7 1	2467028.11	22° 18' 17.792"	82° 8' 43.802"
576		P576	617988.3 8	2467018.38	22° 18' 17.477"	82° 8' 43.718"
577		P577	617986.0 4	2467008.66	22° 18' 17.161"	82° 8' 43.633"
578		P578	617983.7 0	2466998.94	22° 18' 16.845"	82° 8' 43.549"
579		P579	617981.3 6	2466989.21	22° 18' 16.53"	82° 8' 43.465"
580		P580	617979.0 2	2466979.49	22° 18' 16.214"	82° 8' 43.381"
581		P581	617976.6 8	2466969.77	22° 18' 15.899"	82° 8' 43.296"
582		P582	617974.3 4	2466960.05	22° 18' 15.583"	82° 8' 43.212"
583		P583	617972.0 0	2466950.32	22° 18' 15.268"	82° 8' 43.128"
584		P584	617969.6 7	2466940.60	22° 18' 14.952"	82° 8' 43.043"
585		P585	617967.3 3	2466930.88	22° 18' 14.636"	82° 8' 42.959"
586		P586	617964.9 9	2466921.16	22° 18' 14.321"	82° 8' 42.875"
587		P587	617962.6 5	2466911.43	22° 18' 14.005"	82° 8' 42.79"
588		P588	617960.3 1	2466901.71	22° 18' 13.69"	82° 8' 42.706"
589		P589	617957.9 7	2466891.99	22° 18' 13.374"	82° 8' 42.622"
590		P590	617955.6 3	2466882.27	22° 18' 13.059"	82° 8' 42.537"
591	P591	617953.2	2466872.54	22° 18'	82° 8'	

		9		12.743"	42.453"
592	P592	617950.9 5	2466862.82	22° 18' 12.427"	82° 8' 42.369"
593	P593	617948.6 2	2466853.10	22° 18' 12.112"	82° 8' 42.285"
594	P594	617946.2 8	2466843.37	22° 18' 11.796"	82° 8' 42.2"
595	P595	617943.9 4	2466833.65	22° 18' 11.481"	82° 8' 42.116"
596	P596	617941.6 0	2466823.93	22° 18' 11.165"	82° 8' 42.032"
597	P597	617939.2 6	2466814.21	22° 18' 10.85"	82° 8' 41.947"
598	P598	617936.9 2	2466804.48	22° 18' 10.534"	82° 8' 41.863"
599	P599	617922.8 9	2466746.15	22° 18' 8.641"	82° 8' 41.357"
600	P600	617920.5 5	2466736.43	22° 18' 8.325"	82° 8' 41.273"
601	P601	617918.2 1	2466726.70	22° 18' 8.009"	82° 8' 41.189"
602	P602	617915.8 7	2466716.98	22° 18' 7.694"	82° 8' 41.104"
603	P603	617913.5 3	2466707.26	22° 18' 7.378"	82° 8' 41.02"
604	P604	617911.1 9	2466697.54	22° 18' 7.063"	82° 8' 40.936"
605	P605	617908.8 6	2466687.81	22° 18' 6.747"	82° 8' 40.851"
606	P606	617906.5 2	2466678.09	22° 18' 6.432"	82° 8' 40.767"
607	P607	617904.1 8	2466668.37	22° 18' 6.116"	82° 8' 40.683"
608	P608	617901.8 4	2466658.64	22° 18' 5.8"	82° 8' 40.598"
609	P609	617899.5 0	2466648.92	22° 18' 5.485"	82° 8' 40.514"
610	P610	617897.1 6	2466639.20	22° 18' 5.169"	82° 8' 40.43"
611	P611	617894.8 2	2466629.48	22° 18' 4.854"	82° 8' 40.345"
612	P612	617892.4 8	2466619.75	22° 18' 4.538"	82° 8' 40.261"

Patch No-
16

613	Patch No-17	P613	617890.1 5	2466610.03	22° 18' 4.223"	82° 8' 40.177"
614		P614	617887.8 1	2466600.31	22° 18' 3.907"	82° 8' 40.093"
615		P615	617819.9 8	2466318.35	22° 17' 54.755"	82° 8' 37.648"
616		P616	617817.6 4	2466308.63	22° 17' 54.44"	82° 8' 37.564"
617		P617	617815.3 0	2466298.91	22° 17' 54.124"	82° 8' 37.479"
618		P618	617812.9 6	2466289.18	22° 17' 53.809"	82° 8' 37.395"
619	Patch No-18	P619	617750.3 4	2465796.17	22° 17' 37.793"	82° 8' 35.076"
620		P620	617750.4 1	2465786.17	22° 17' 37.468"	82° 8' 35.076"
621		P621	617750.4 8	2465776.17	22° 17' 37.142"	82° 8' 35.076"
622		P622	617750.5 5	2465766.17	22° 17' 36.817"	82° 8' 35.076"
623		P623	617750.6 2	2465756.17	22° 17' 36.492"	82° 8' 35.076"
624		P624	617750.6 9	2465746.17	22° 17' 36.167"	82° 8' 35.075"
625		P625	617750.7 6	2465736.17	22° 17' 35.842"	82° 8' 35.075"
626		P626	617750.8 4	2465726.17	22° 17' 35.516"	82° 8' 35.075"
627		P627	617750.9 1	2465716.17	22° 17' 35.191"	82° 8' 35.075"
628		P628	617750.9 8	2465706.17	22° 17' 34.866"	82° 8' 35.075"
629		P629	617751.0 5	2465696.17	22° 17' 34.541"	82° 8' 35.075"
630		P630	617751.1 2	2465686.17	22° 17' 34.216"	82° 8' 35.074"
631		P631	617751.1 9	2465676.17	22° 17' 33.891"	82° 8' 35.074"
632		P632	617751.2 6	2465666.17	22° 17' 33.565"	82° 8' 35.074"
633		P633	617751.3 3	2465656.17	22° 17' 33.24"	82° 8' 35.074"
634		P634	617751.4	2465646.17	22° 17'	82° 8'

		0		32.915"	35.074"
635	P635	617751.4 7	2465636.17	22° 17' 32.59"	82° 8' 35.074"
636	P636	617751.5 5	2465626.17	22° 17' 32.265"	82° 8' 35.073"
637	P637	617751.6 2	2465616.17	22° 17' 31.94"	82° 8' 35.073"
638	P638	617751.6 9	2465606.17	22° 17' 31.614"	82° 8' 35.073"
639	P639	617751.7 6	2465596.17	22° 17' 31.289"	82° 8' 35.073"
640	P640	617751.8 3	2465586.17	22° 17' 30.964"	82° 8' 35.073"
641	P641	617751.9 0	2465576.17	22° 17' 30.639"	82° 8' 35.073"
642	P642	617751.9 7	2465566.17	22° 17' 30.314"	82° 8' 35.072"
643	P643	617752.0 4	2465556.17	22° 17' 29.988"	82° 8' 35.072"
644	P644	617752.1 1	2465546.17	22° 17' 29.663"	82° 8' 35.072"
645	P645	617752.1 8	2465536.17	22° 17' 29.338"	82° 8' 35.072"
646	P646	617752.2 5	2465526.17	22° 17' 29.013"	82° 8' 35.072"
647	P647	617752.3 3	2465516.17	22° 17' 28.688"	82° 8' 35.072"
648	P648	617752.4 0	2465506.17	22° 17' 28.363"	82° 8' 35.071"
649	P649	617752.4 7	2465496.17	22° 17' 28.037"	82° 8' 35.071"
650	P650	617752.5 4	2465486.17	22° 17' 27.712"	82° 8' 35.071"
651	P651	617752.6 1	2465476.17	22° 17' 27.387"	82° 8' 35.071"
652	P652	617752.6 8	2465466.17	22° 17' 27.062"	82° 8' 35.071"
653	P653	617752.7 5	2465456.17	22° 17' 26.737"	82° 8' 35.071"
654	P654	617752.8 2	2465446.17	22° 17' 26.412"	82° 8' 35.07"
655	P655	617752.8 9	2465436.17	22° 17' 26.086"	82° 8' 35.07"

656	P656	617752.9 6	2465426.17	22° 17' 25.761"	82° 8' 35.07"
657	P657	617753.0 4	2465416.18	22° 17' 25.436"	82° 8' 35.07"
658	P658	617753.1 1	2465406.18	22° 17' 25.111"	82° 8' 35.07"
659	P659	617753.1 8	2465396.18	22° 17' 24.786"	82° 8' 35.07"
660	P660	617753.2 5	2465386.18	22° 17' 24.46"	82° 8' 35.069"
661	P661	617753.3 2	2465376.18	22° 17' 24.135"	82° 8' 35.069"
662	P662	617753.3 9	2465366.18	22° 17' 23.81"	82° 8' 35.069"
663	P663	617753.4 6	2465356.18	22° 17' 23.485"	82° 8' 35.069"
664	P664	617753.5 3	2465346.18	22° 17' 23.16"	82° 8' 35.069"
665	P665	617753.6 1	2465336.18	22° 17' 22.835"	82° 8' 35.069"
666	P666	617753.7 2	2465326.18	22° 17' 22.509"	82° 8' 35.07"
667	P667	617753.9 0	2465316.18	22° 17' 22.184"	82° 8' 35.074"
668	P668	617754.2 1	2465306.18	22° 17' 21.859"	82° 8' 35.082"
669	P669	617754.6 9	2465296.20	22° 17' 21.534"	82° 8' 35.096"
670	P670	617755.3 8	2465286.22	22° 17' 21.21"	82° 8' 35.118"
671	P671	617756.3 3	2465276.27	22° 17' 20.886"	82° 8' 35.148"
672	P672	617757.5 7	2465266.34	22° 17' 20.563"	82° 8' 35.189"
673	P673	617759.1 4	2465256.47	22° 17' 20.241"	82° 8' 35.241"
674	P674	617761.0 4	2465246.65	22° 17' 19.922"	82° 8' 35.305"
675	P675	617763.2 7	2465236.90	22° 17' 19.604"	82° 8' 35.38"
676	P676	617765.8 2	2465227.23	22° 17' 19.289"	82° 8' 35.467"
677	P677	617768.6	2465217.65	22° 17'	82° 8'

		9		18.977"	35.564"
678	P678	617771.8 5	2465208.17	22° 17' 18.668"	82° 8' 35.672"
679	P679	617775.2 7	2465198.77	22° 17' 18.361"	82° 8' 35.789"
680	P680	617778.9 0	2465189.45	22° 17' 18.057"	82° 8' 35.914"
681	P681	617782.6 9	2465180.20	22° 17' 17.756"	82° 8' 36.044"
682	P682	617786.6 1	2465171.00	22° 17' 17.455"	82° 8' 36.178"
683	P683	617790.6 2	2465161.84	22° 17' 17.156"	82° 8' 36.316"
684	P684	617794.6 6	2465152.69	22° 17' 16.858"	82° 8' 36.455"
685	P685	617798.7 1	2465143.55	22° 17' 16.56"	82° 8' 36.594"
686	P686	617802.7 6	2465134.40	22° 17' 16.261"	82° 8' 36.733"
687	P687	617806.8 1	2465125.26	22° 17' 15.963"	82° 8' 36.872"
688	P688	617810.8 6	2465116.12	22° 17' 15.665"	82° 8' 37.011"
689	P689	617827.0 6	2465079.55	22° 17' 14.472"	82° 8' 37.568"
690	P690	617831.1 1	2465070.40	22° 17' 14.173"	82° 8' 37.707"
691	P691	617835.1 7	2465061.26	22° 17' 13.875"	82° 8' 37.846"
692	P692	617839.2 2	2465052.12	22° 17' 13.577"	82° 8' 37.985"
693	P693	617843.2 7	2465042.98	22° 17' 13.279"	82° 8' 38.124"
694	P694	617847.3 2	2465033.83	22° 17' 12.98"	82° 8' 38.263"
695	P695	617851.3 7	2465024.69	22° 17' 12.682"	82° 8' 38.402"
696	P696	617855.4 2	2465015.55	22° 17' 12.384"	82° 8' 38.541"
697	P697	617859.4 7	2465006.41	22° 17' 12.085"	82° 8' 38.68"
698	P698	617863.5 2	2464997.26	22° 17' 11.787"	82° 8' 38.82"

699	P699	617867.5 7	2464988.12	22° 17' 11.489"	82° 8' 38.959"
700	P700	617871.6 2	2464978.98	22° 17' 11.19"	82° 8' 39.098"
701	P701	617875.6 7	2464969.83	22° 17' 10.892"	82° 8' 39.237"
702	P702	617879.7 2	2464960.69	22° 17' 10.594"	82° 8' 39.376"
703	P703	617883.7 7	2464951.55	22° 17' 10.296"	82° 8' 39.515"
704	P704	617887.8 2	2464942.41	22° 17' 9.997"	82° 8' 39.654"
705	P705	617891.8 8	2464933.26	22° 17' 9.699"	82° 8' 39.793"
706	P706	617895.9 3	2464924.12	22° 17' 9.401"	82° 8' 39.932"
707	P707	617899.9 8	2464914.98	22° 17' 9.102"	82° 8' 40.072"
708	P708	617904.0 3	2464905.83	22° 17' 8.804"	82° 8' 40.211"
709	P709	617908.0 8	2464896.69	22° 17' 8.506"	82° 8' 40.35"
710	P710	617912.1 1	2464887.54	22° 17' 8.207"	82° 8' 40.488"
711	P711	617916.0 8	2464878.36	22° 17' 7.908"	82° 8' 40.624"
712	P712	617919.9 5	2464869.14	22° 17' 7.607"	82° 8' 40.757"
713	P713	617923.6 8	2464859.86	22° 17' 7.304"	82° 8' 40.885"
714	P714	617927.2 2	2464850.51	22° 17' 6.999"	82° 8' 41.006"
715	P715	617930.5 4	2464841.08	22° 17' 6.692"	82° 8' 41.12"
716	P716	617933.5 8	2464831.55	22° 17' 6.381"	82° 8' 41.224"
717	P717	617936.3 1	2464821.93	22° 17' 6.068"	82° 8' 41.316"
718	P718	617938.6 7	2464812.22	22° 17' 5.751"	82° 8' 41.396"
719	P719	617940.6 5	2464802.41	22° 17' 5.432"	82° 8' 41.463"
720	P720	617942.2	2464792.54	22° 17'	82° 8'

		3		5.111"	41.515"
721	P721	617943.4 1	2464782.61	22° 17' 4.788"	82° 8' 41.554"
722	P722	617944.2 0	2464772.64	22° 17' 4.463"	82° 8' 41.579"
723	P723	617944.5 9	2464762.65	22° 17' 4.138"	82° 8' 41.59"
724	P724	617944.5 8	2464752.65	22° 17' 3.813"	82° 8' 41.587"
725	P725	617944.1 6	2464742.66	22° 17' 3.488"	82° 8' 41.57"
726	P726	617943.3 5	2464732.69	22° 17' 3.165"	82° 8' 41.539"
727	P727	617942.1 4	2464722.77	22° 17' 2.842"	82° 8' 41.494"
728	P728	617940.5 4	2464712.90	22° 17' 2.522"	82° 8' 41.435"
729	P729	617938.5 4	2464703.10	22° 17' 2.203"	82° 8' 41.363"
730	P730	617936.1 7	2464693.39	22° 17' 1.888"	82° 8' 41.278"
731	P731	617933.4 8	2464683.76	22° 17' 1.576"	82° 8' 41.181"
732	P732	617930.5 1	2464674.21	22° 17' 1.266"	82° 8' 41.075"
733	P733	617927.3 0	2464664.74	22° 17' 0.959"	82° 8' 40.96"
734	P734	617923.9 1	2464655.33	22° 17' 0.654"	82° 8' 40.839"
735	P735	617920.3 6	2464645.98	22° 17' 0.35"	82° 8' 40.713"
736	P736	617916.7 1	2464636.67	22° 17' 0.049"	82° 8' 40.583"
737	P737	617913.0 0	2464627.39	22° 16' 59.748"	82° 8' 40.45"
738	P738	617909.2 6	2464618.11	22° 16' 59.447"	82° 8' 40.317"
739	P739	617905.5 2	2464608.84	22° 16' 59.146"	82° 8' 40.184"
740	P740	617901.7 8	2464599.56	22° 16' 58.846"	82° 8' 40.051"
741	P741	617898.0 4	2464590.29	22° 16' 58.545"	82° 8' 39.918"

742	P742	617894.3 0	2464581.01	22° 16' 58.244"	82° 8' 39.785"
743	P743	617890.5 6	2464571.74	22° 16' 57.944"	82° 8' 39.652"
744	P744	617886.8 2	2464562.46	22° 16' 57.643"	82° 8' 39.519"
745	P745	617883.0 8	2464553.19	22° 16' 57.342"	82° 8' 39.385"
746	P746	617879.3 4	2464543.92	22° 16' 57.042"	82° 8' 39.252"
747	P747	617875.6 0	2464534.64	22° 16' 56.741"	82° 8' 39.119"
748	P748	617871.8 6	2464525.37	22° 16' 56.44"	82° 8' 38.986"
749	P749	617868.1 2	2464516.09	22° 16' 56.14"	82° 8' 38.853"
750	P750	617864.3 8	2464506.82	22° 16' 55.839"	82° 8' 38.72"
751	P751	617860.6 4	2464497.54	22° 16' 55.539"	82° 8' 38.587"
752	P752	617856.9 0	2464488.27	22° 16' 55.238"	82° 8' 38.454"
753	P753	617853.1 6	2464478.99	22° 16' 54.937"	82° 8' 38.321"
754	P754	617849.4 4	2464469.71	22° 16' 54.636"	82° 8' 38.188"
755	P755	617845.7 3	2464460.43	22° 16' 54.335"	82° 8' 38.056"
756	P756	617842.0 4	2464451.13	22° 16' 54.034"	82° 8' 37.925"
757	P757	617838.3 7	2464441.83	22° 16' 53.732"	82° 8' 37.794"
758	P758	617834.6 9	2464432.53	22° 16' 53.431"	82° 8' 37.663"
759	P759	617831.0 2	2464423.23	22° 16' 53.129"	82° 8' 37.532"
760	P760	617827.3 5	2464413.93	22° 16' 52.828"	82° 8' 37.401"
761	P761	617823.6 8	2464404.63	22° 16' 52.526"	82° 8' 37.271"
762	P762	617820.0 0	2464395.33	22° 16' 52.225"	82° 8' 37.14"
763	P763	617816.3	2464386.03	22° 16'	82° 8'

			3		51.923"	37.009"
764		P764	617812.6 6	2464376.72	22° 16' 51.622"	82° 8' 36.878"
765	Patch No-20	P765	617571.0 0	2463128.62	22° 16' 11.097"	82° 8' 28.106"
766		P766	617576.3 1	2463120.15	22° 16' 10.82"	82° 8' 28.289"
767		P767	617581.6 1	2463111.67	22° 16' 10.543"	82° 8' 28.472"
768		P768	617586.9 2	2463103.19	22° 16' 10.266"	82° 8' 28.655"
769		P769	617592.2 2	2463094.72	22° 16' 9.989"	82° 8' 28.838"
770		P770	617597.5 3	2463086.24	22° 16' 9.712"	82° 8' 29.021"
771		P771	617602.8 3	2463077.76	22° 16' 9.435"	82° 8' 29.204"
772		P772	617608.1 3	2463069.28	22° 16' 9.158"	82° 8' 29.387"
773		P773	617613.4 0	2463060.78	22° 16' 8.88"	82° 8' 29.569"
774		P774	617618.5 9	2463052.24	22° 16' 8.601"	82° 8' 29.748"
775		P775	617623.6 7	2463043.62	22° 16' 8.32"	82° 8' 29.923"
776		P776	617628.6 0	2463034.92	22° 16' 8.036"	82° 8' 30.093"
777		P777	617633.3 3	2463026.11	22° 16' 7.748"	82° 8' 30.256"
778		P778	617637.8 4	2463017.19	22° 16' 7.457"	82° 8' 30.411"


 Sub Engineer
 Sub Engineer
 Sub Dn, Bilaspur (C.G.)


 (Smt. Mamta Patel)
 Executive Engineer
 Bilaspur (C.G.)


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 वनपरिक्षेत्र रतनपुर (सा.) परियोजना परिक्षेत्र अधिकारी
 भैसाझार

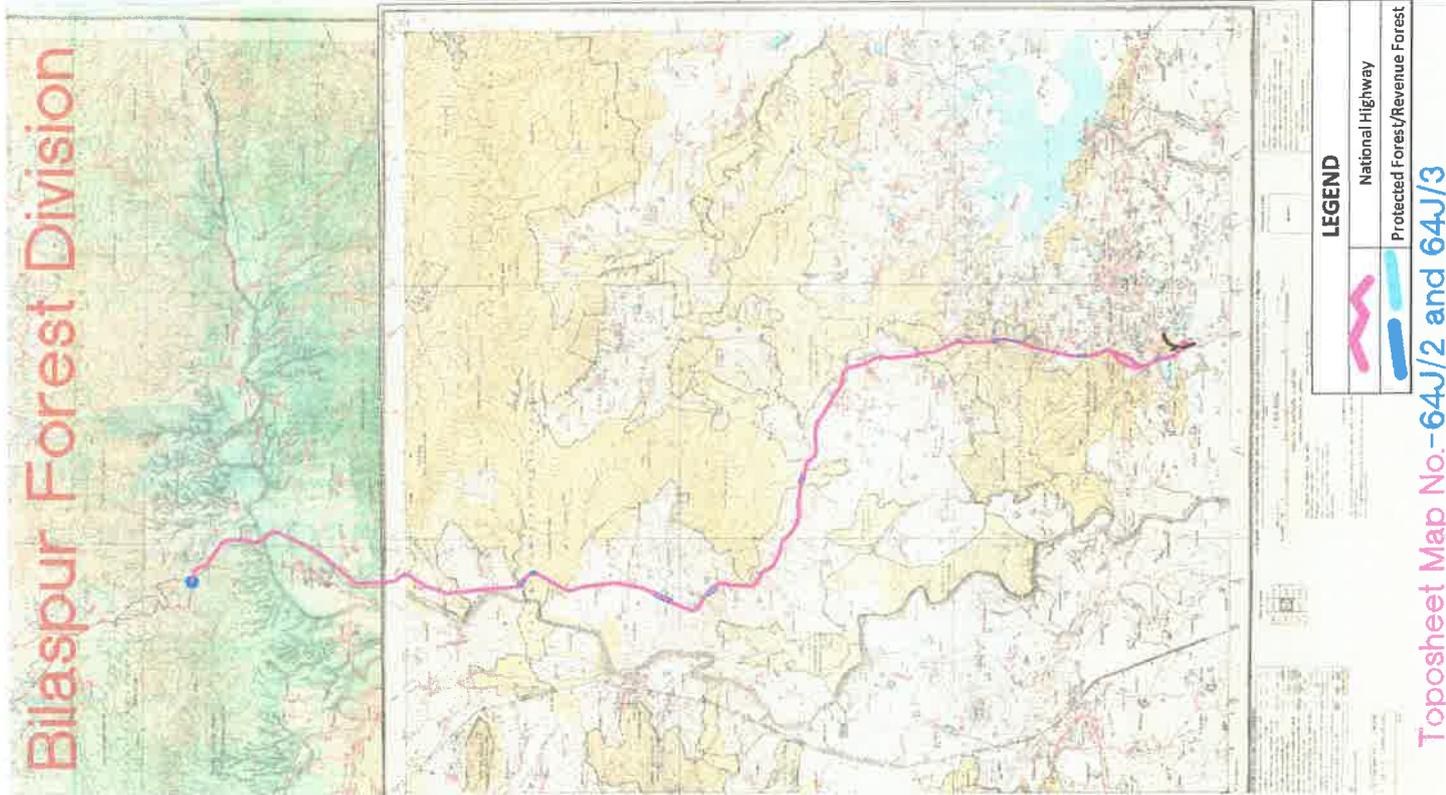
7.3 Annexure 3: Geo referenced Maps SOI & Forest Stock Map

7.3.1 Keonchi to Ratanpur Road Alignment on Survey of India Toposheet

SOI Toposheet Showing Forest Patches Proposed for Diversion along the Keonchi to Ratanpur Road, District-Bilaspur (Chhattisgarh)


 उप वनमण्डल अधिकारी
 कोटा उप वनमण्डल कोटा (छ.ग.)


 उप वनमण्डल अधिकारी
 बिलासपुर (छ.ग.)



Sarkar
 Sub Engineer
 Su.-N.H. (P.W.D.)
 Sub Div. Bilaspur (C.G.)

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

Shankar
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 वनपरिक्षेत्र रतनपुर (सा.) परियोजना परिक्षेत्र अधिकारी
 भैसाझर

[Signature]
 परिक्षेत्र अधिकारी
 बेलगहना परिक्षेत्र

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