

D.G.P.S. SURVEY REPORT

OF FOREST LAND DEMARCATION AND BOUNDARY POINT FIXATION
FOR FOREST LAND DIVERSION PROPOSAL OF
CHHOTEDONGAR IRON ORE MINES AND APPROACH ROAD

UNDER FOREST DIVISION/DISTRICT	NARAYANPUR
TEHSIL	NARAYANPUR
COMPARTMENT NO.	2179,2180,2181, 2182, 2183,2184, 2185,2188,P2226,P2226A, P2217
FOREST RANGE	CHHOTEDONGAR
SURVEYED AREA	66.02 Ha. Forest land

(DGPS SURVEY REPORT SUBMITTED UNDER FOREST CONSURVATION ACT 1980)



APPLICANT	SURVEYED BY
SHRI BAJRANG POWER AND ISPAT LIMITED Village – Borjhara, Urla – Guma Road Urla Growth Center, Raipur Chhattisgarh 	SIDDHARTH GEO CONSULTANTS 621/3, 1stFLOOR, RAMKUND SAMTA COLONY, BEHIND LEFOWORTH HOSPITAL,RAIPUR (C.G.) PIN 492001 PH NO. – 0771- 4070731 Email – sgc_rai@yahoo.co.in 

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ANNEXURE

S. NO.	PARTICULARS	MAP No.
1.	Geo-referenced Forest Land Map Showing Proposed Area	Map-1
2.	Toposheet Map (65 E/3,7) Showing Proposed Area	Map-2



1. INTRODUCTION & OBJECTIVE

1.1 INTRODUCTION

Shri Bajrang Power And Ispat Limited is one of the largest steel companies in Central India having dominant presence in steel industries, power generation, mining and infrastructure sector. The company has obtained a Mining lease for Iron ore at Narayanpur district, for Mining operation. Forest land required for mining operation and an approach road for transportation purpose. This lease area is present at forest land so for the diversion of forest land a DGPS survey of Mining lease area and approach road is done for area calculation and fixation of its ground position by coordinates. Shri Bajrang Power And Ispat Limited have been submitted proposal to Forest department Govt. of Chhattisgarh for diversion of Govt. forest land for non – forestry purpose, under forest conservation Act 1980. The forest area proposed to be diverted for non – forestry purpose is **66.02 ha**. At Narayanpur district, Tehsil- Narayanpur, under forest division Narayanpur, range Chhotedongar.

1.1 OBJECTIVE

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 and proposed area 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 Geo referenced 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 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) bring efficacy in survey in shorter time span compared to old method of survey and record preparation. 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.

DGPS Survey of proposed area on behalf of Shri Bajrang Power And Ispat Limited, Village – Borjhara, Urla – Guma Road Urla Growth Center, Raipur Chhattisgarh conducted on dated 26.08.2024 to 29.08.2024 by Survey Team of M/s Siddharth Geo Consultants in the presence of Revenue/Forest department officials.



2. LOCATION

The DGPS surveyed forest area proposed for Mining operation and approach road is situated under village Chhotedongar, Tehsil Narayanpur, District- Narayanpur, Chhattisgarh. It falls in Survey of India Toposheet no. 65 E/3 and 7. Geographical co-ordinates of the proposed area are given in output Content.

The surveyed area comes under, Government Forest Land Compartment no. 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2188, P2226, P2226A and P2217 under Forest Division – Narayanpur and Range - Chhotedongar of district Narayanpur, Chhattisgarh. The total DGPS surveyed forest land is **66.02** ha.

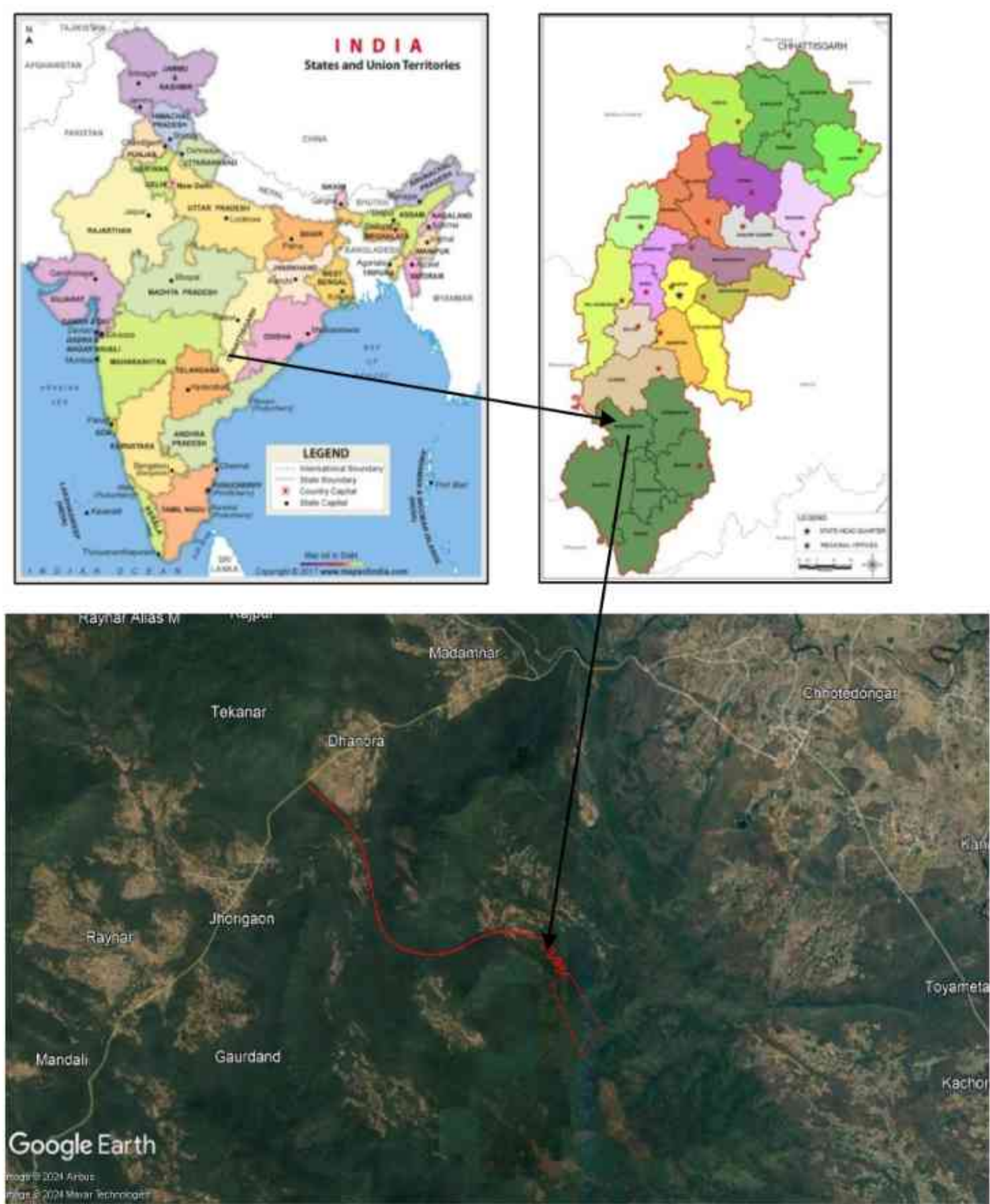


Fig. 2.1 - Location of the Surveyed Area



3. SCOPE OF WORK

1. Establishment of base station near surveyed area.

2. Demarcation of Proposed Area by DGPS Survey :

- Carrying out of survey work using DGPS (UTM Co-ordinates) for demarcation of precise area boundary and fixing up its ground position with pillar for construction & erection of pillar to demarcate the exact area boundary as per the norms specified for the purpose.
- Submission of proposed area (showing the pillar no's & its DGPS Coordinates) output file in drawing file & shape file format.
- Submission of 07 sets of Hard Copy of Plans & Report of the surveyed area with showing the pillar no's & its DGPS Coordinates (UTM & WGS-84 format) and its soft copy in CD format.

3. Digitization of Stock map:

- Geo-referencing of Stock maps with DGPS Survey Points.
- Creation of Point, Line and Polygon.
- Digitization of Stock map.
- Submission of final Geo-referenced forest land map (1:15,000 Scales) and SOI toposheet (1:50,000 Scales) of surveyed area & Shape and KML file (Soft Copy) and 7 sets of Hard Copies.

4. Preparations of land classification as par required revenue/forest department

- Polygon topology to be created and attached to the cadastral/stock map of surveyed area. Preparation of land classification of the surveyed area showing the area of plot & type of land like Tenancy land, forest land, Govt. Land, etc.



4. FEATURES & METHODOLOGY OF DGPS SURVEY

4.1 DGPS INTRODUCTION

The advanced version or the enhancement to Global positioning System or the GPS is DGPS i.e. Differential Global positioning System or DGPS. DGPS was developed to meet the needs of positioning and distance measuring. It provides better and improved location accuracy than GPS. The underlying premise of differential GPS (DGPS) requires that a two DGPS receiver unit operated sequentially, one is stationary called as Base unit and other is moving called as Rover unit.



Fig. 4.1 A DGPS Base and Rover station Equipment

A GPS receiver must acquire signals from at least four satellites to reliably calculate a three-dimensional position. Ideally, these satellites should be distributed across the sky. The receiver performs mathematical calculations to establish the distance from a satellite, which in turn is used to determine its position. The GPS receiver knows where each satellite is the instant its distance is measured. This position is displayed on the data logger and saved along with any other descriptive information entered in the field software.



4.2 CONCEPT OF DGPS

A typical DGPS architecture is shown in figure below

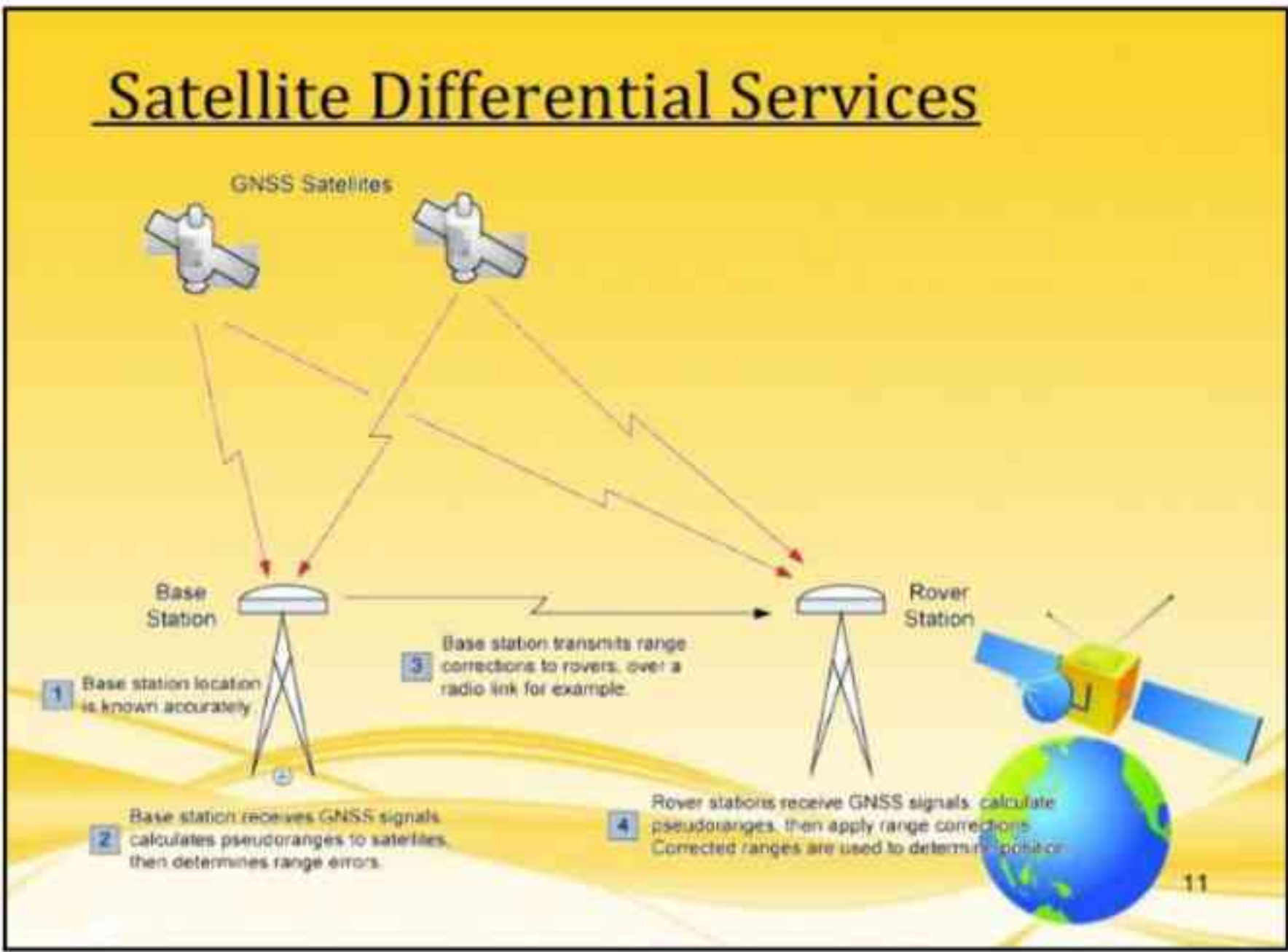


Fig. 4.2 A DGPS Base station and Rover station setup

The DGPS equipment work on GPS/GNSS satellite signal to find out exact position where they are on the global scale. The GPS Operational Constellation consists of 24 satellites that orbit the Earth in very precise orbits twice a day. GPS satellites emit continuous navigation signals. Each GPS satellite transmits data that indicates its location and the current time. All GPS satellites synchronize operations so that these repeating signals are transmitted at the same instant.

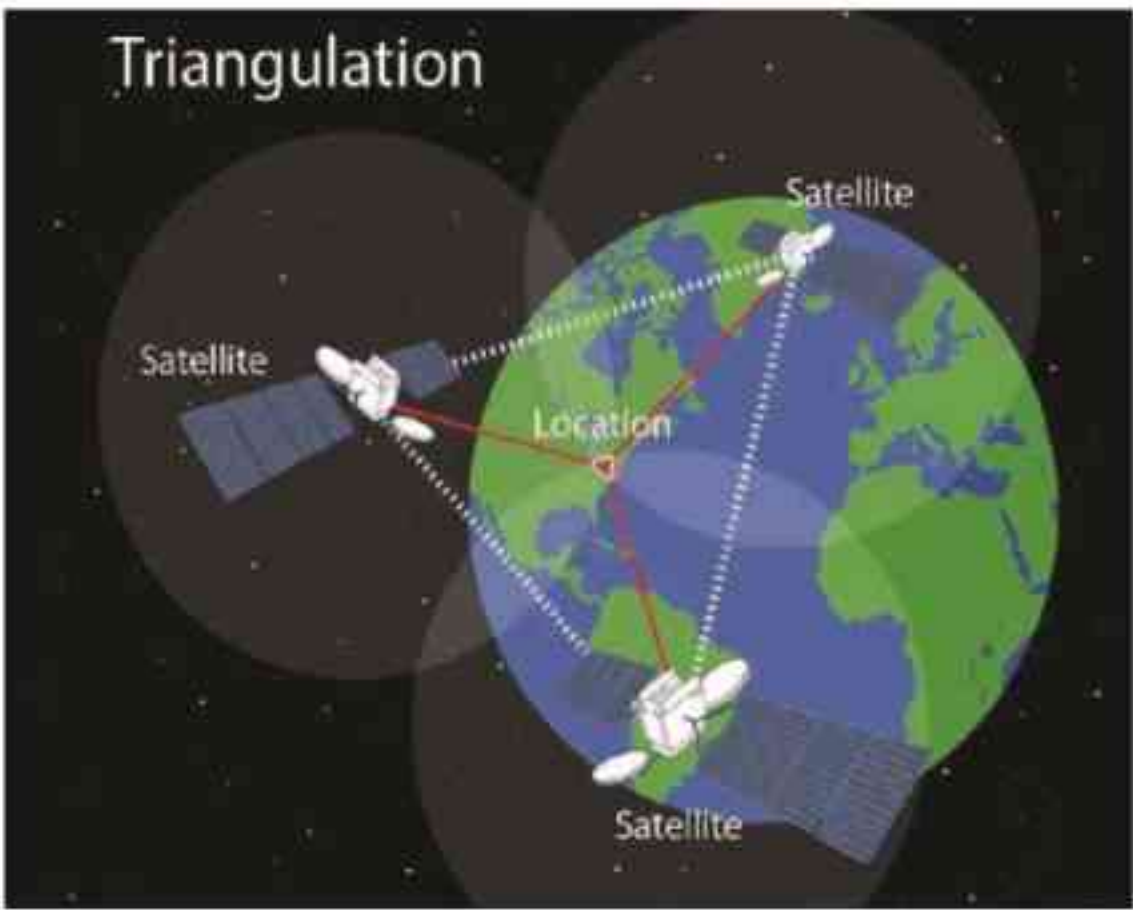


Fig. 4.3 A GPS Satellite orbit the Earth, Location acquired by Satellite system

Measurement of Travel time of the signals from a constellation of GPS Satellites orbiting, the earth for enabling the position in the earth. The GPS satellites are in orbits such that one can be able to receive signals from at least four satellites to enable for the determination of latitude, longitude, altitude and time.

Latitude and Longitude are spherical coordinates on the surface of the earth. Latitude is measured North or South of the Equator. Longitude is measured East or West of Greenwich. DGPS uses Latitudes and Longitudes to reference locations.

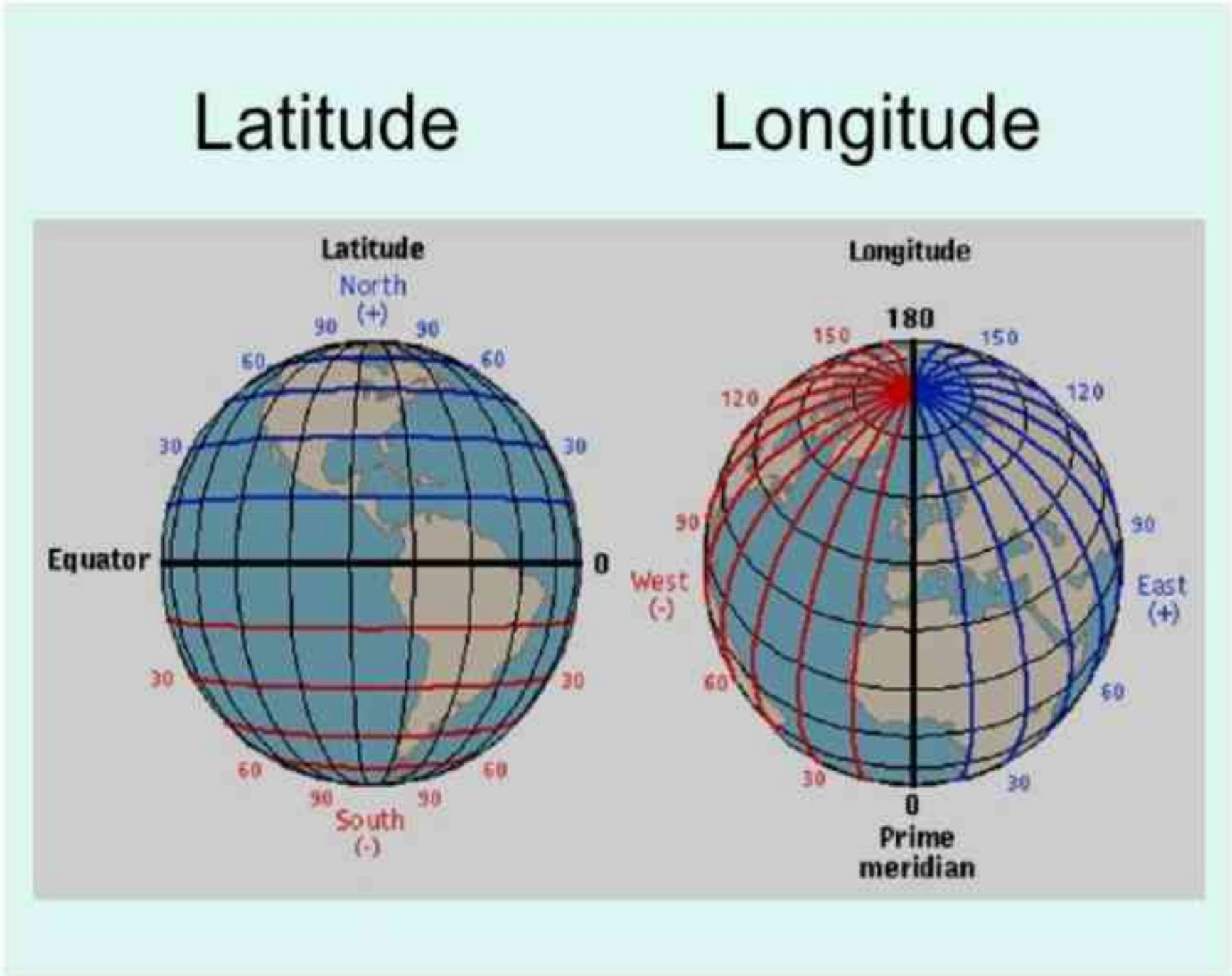


Fig. 4.4 Latitude & Longitude

Differential GPS (DGPS) is a system in which differences between observed and computed co-ordinates ranges(known as differential corrections) at a particular known point are transmitted to users (GPS receivers at other points) to upgrade the accuracy of the users receivers position.

Differential positioning user finds the point position derived from the satellite signals and applies correction to that position. These corrections, difference of the determined position and the known position are generated by a Reference Receiver, whose position is known and is fed to the instrument and are used by the second Receiver to correct its internally generated position. This is known as Differential GPS positioning.

Differential correction is a technique that greatly increases the accuracy of the collected DGPS data. It involves using a receiver at a known location - the "base station"- and comparing that data with DGPS positions collected from unknown locations with "roving receivers.

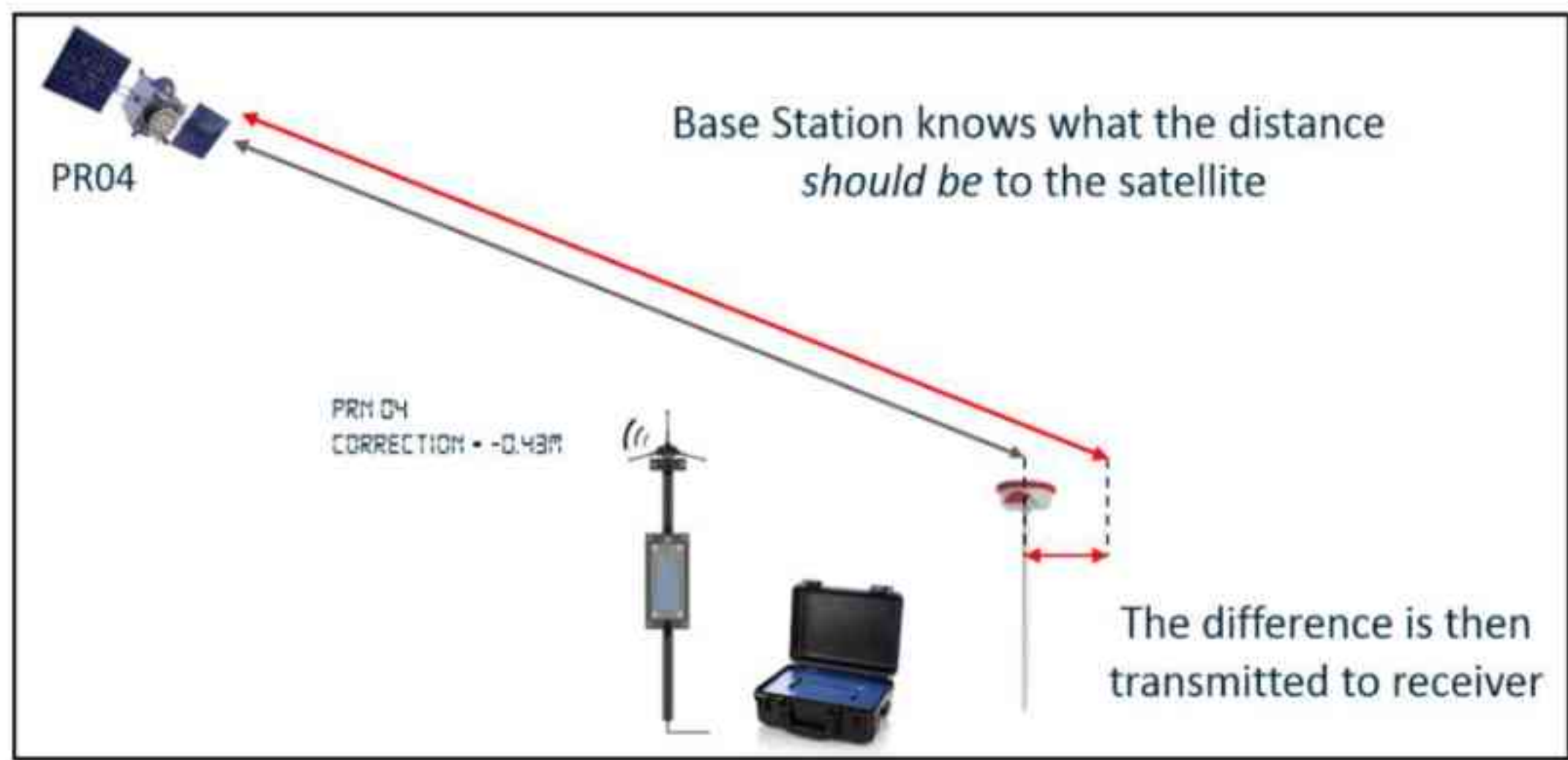


Fig. 4.5 Differential correction of error by DGPS

Differential correction can be applied in real-time directly in the field or when post processing data in the office. Although both methods are based on the same underlying principles, each accesses different data sources and achieves different levels of accuracy. Combining both methods provides flexibility during data collection and improves data integrity.



5. PROCEDURE FOR SURVEY

5.1 **Establishment of Primary Control Point:**

Based on the input data and information provided by Forest department of Narayanpur districts, the DGPS base station in the surveyed area are planned. 2 base station was planned and established near surveyed area, village Chhotedongar, Tehsil Narayanpur, District- Narayanpur, Chhattisgarh.

Co-ordinate of the Primary Control Point

POINT ID	GEOGRAPHICAL COORDINATE (WGS 84 DATUM)		UTM COORDINATE (WGS 84 DATUM)	
	LONGITUDE	LATITUDE	EASTING(X)	NORTHING(Y)
Base CD01	81° 17' 08.0900" E	19° 24' 39.4000" N	529982.8619	2146323.410
Base CD02	81° 15' 04.2170" E	19° 25' 43.2840" N	526367.3900	2148281.3800

5.2 **DGPS Survey of forest area:**

DGPS survey was carried out using a pair of DGPS instrument. One DGPS Instrument was used as Base Station and the other DGPS instrument was working as Rover. Base station established. The distance between the Base Station and rover was always less than 3 km.. The survey was conducted in Real Time Kinematic (RTK) mode. The Survey team carried out DGPS Survey of proposed area boundary points by walking along the patch boundary. DGPS readings were collected at every turn or bend of boundary.

5.3 **Geo-referencing of maps:**

The proposed boundary vector in the form of shape file has been prepared by geo-referencing the co-ordinates of the proposed boundary pillars in geographic latitude & longitude projection with WGS 84 datum.

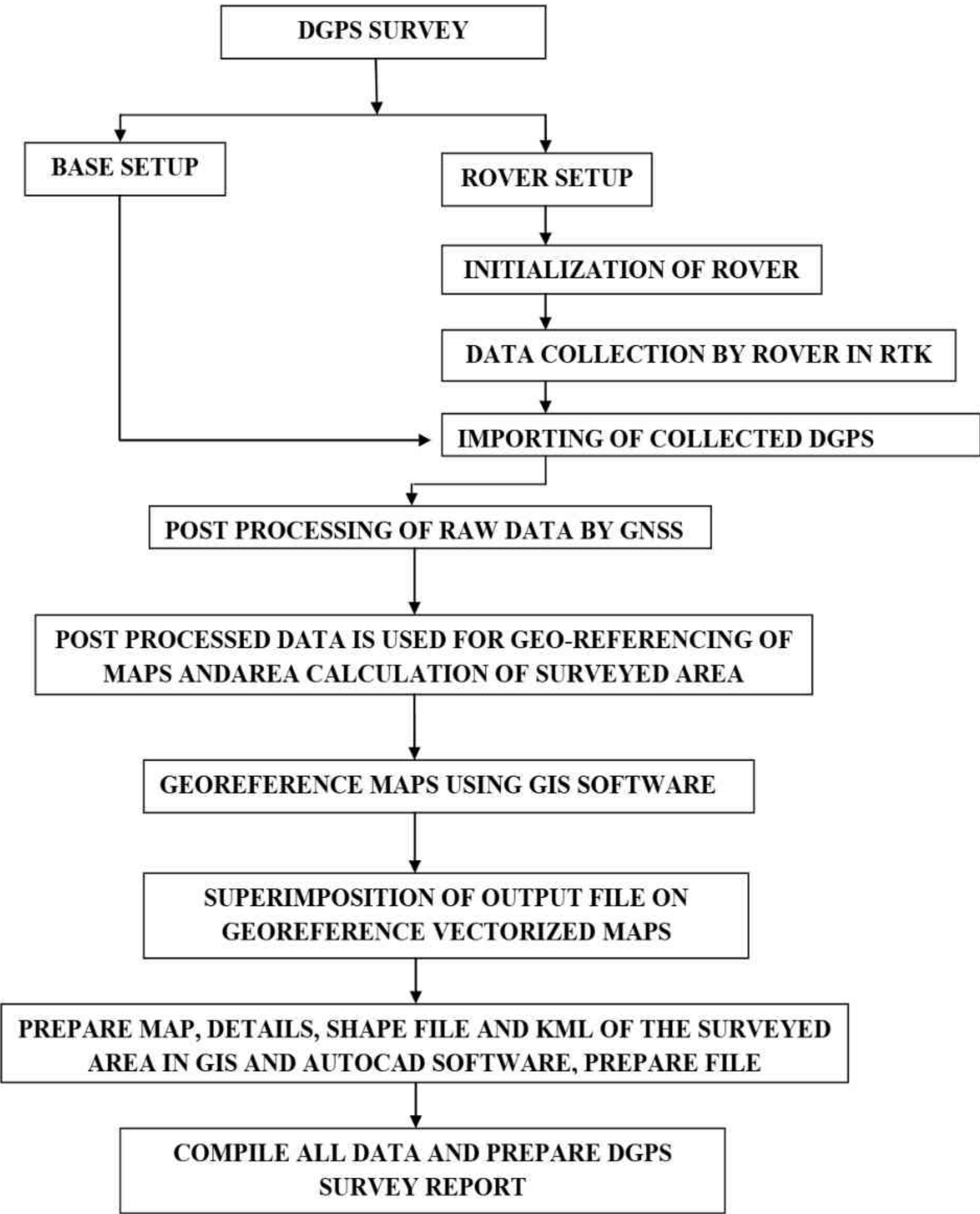


5.4 GIS Analysis:

The surveyed points captured through DGPS were plotted in the GIS Software and the boundary line was created by joining the points. The boundary polygon was created using the boundary lines. The boundary point given by revenue/forest department was verified and the final surveyed area boundary polygon was created and a map layout is printed. After Geo-referencing the Revenue/Forest map the total proposed area is digitized and new vector layers are prepared. Land Schedule for The proposed area is prepared and the final area statement is computed from the digitized layers. Then, surveyed area boundary is superimposed on the Survey of India Toposheet (1:50000) and Forest map (1:15000).



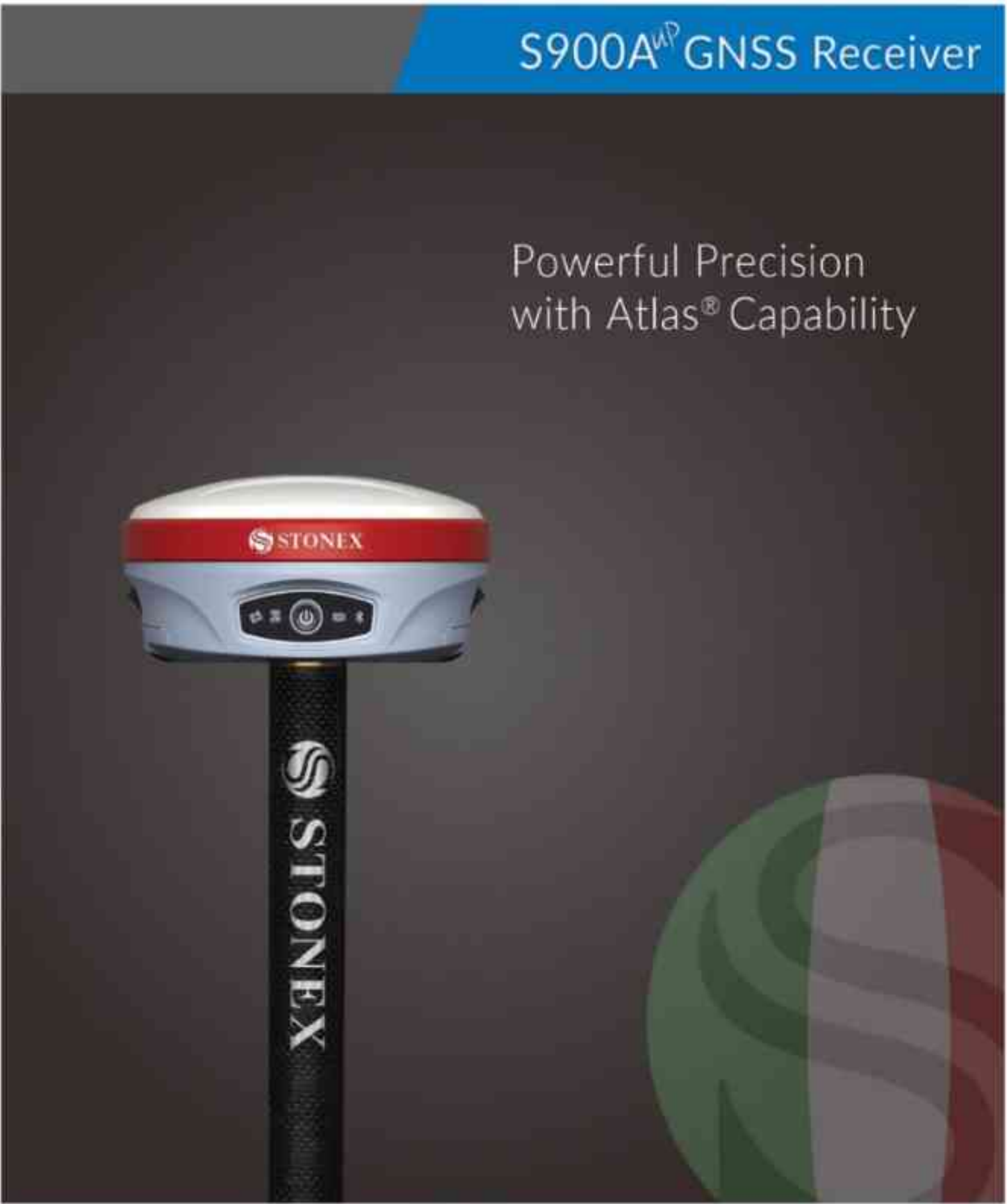
5.5 FLOW CHART OF DGPS SURVEY PROCEDURE





6. SPECIFICATION OF DGPS EQUIPMENT

We deployed a high performance GNSS board 600 channels and capable of supporting multiple satellite constellations devices to carry out the DGPS survey. The technical specification is given below:



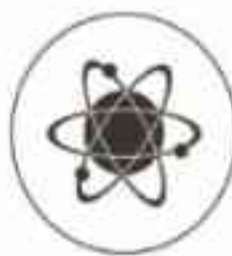
S900A^{UP} Powerful Precision with Atlas® Capability

Stonex S900A is equipped with an high performance GNSS board 600 channels and capable of supporting multiple satellite constellations: GPS, GLONASS, BEIDOU and GALILEO, including L-Band correction.

Through the 4G GSM modem a fast internet connection is guaranteed for the reception of correction data and the management of the maps in the background. In the amazingly compact structure the Bluetooth and Wi-Fi modules allow always reliable data flow to the controller, and the integrated TX/RX UHF radiomodem with selectable frequencies, make S900A the perfect system for a GNSS Base + Rover.

Stonex S900A integrates E-Bubble sensor that allows the measurement of difficult points with the pole not levelled. It is possible to measure points with an inclination of the pole up to 30° even in harsh environments and in the presence of magnetic fields.

Thanks to measurement routine integrated into the field software, the management of tilt function is simple and intuitive.



MULTI CONSTELLATION

Stonex S900A with its 600 channels, provides an excellent on board real time navigation solution with high accuracy. All GNSS signals (GPS, GLONASS, BEIDOU and GALILEO) are included, no additional cost.



WEB UI CONTROL

To initialize, manage, monitor the settings of the receiver and to download data using portable or PC, smartphone or tablet with Wi-Fi capability.



ELECTRONIC BUBBLE

On S900A, through E-Bubble it can be displayed directly on software if the pole is vertical and the point will be recorded automatically when the pole is in bubble. This makes the acquisition of points extremely fast.



INTELLIGENT BATTERIES

The dual slot for two Smart hot swappable batteries gives you up to 12 hours using the integrated UHF radiomodem. The power level can be checked and seen on the controller or directly on a led bar on the battery.



RUGGED RTK

With IP67 Certification Stonex S900A will ensure operations in various kinds of extremely tough environments.



S900A^{MP} TECHNICAL FEATURES

RECEIVER

Satellite Tracked	GPS: L1 C/A, L1C, L1P, L2C, L2P, L5
	GLONASS: L1 C/A, L1P, L2C, L2P, L3
	BEIDOU: B1, B2, B3
	GALILEO: E1, E5a, E5b, Alt-BOC, E6
	QZSS: L1 C/A, L1C, L2C, L5
	SBAS: L1, L5
L-Band	Atlas H10 / H30 / Basic
Channels	600
Position Rate	5 Hz, optional 20Hz
Signal Reacquisition	< 1 sec
RTK Signal Initialization	Typically < 10 sec
Hot Start	Typically < 15 sec
Initialization Reliability	> 99.9 %
Internal Memory	8 GB
Micro SD Card	Expansion slot up to 32 GB

POSITIONING²

HIGH PRECISION STATIC SURVEYING	
Horizontal	2.5 mm + 0.1 ppm RMS
Vertical	3.5 mm + 0.4 ppm RMS
CODE DIFFERENTIAL POSITIONING	
Horizontal	0.25 m RMS
Vertical	0.45 m RMS
SBAS POSITIONING²	
Horizontal	0.30 m RMS
Vertical	0.60 m RMS
REAL TIME KINEMATIC (< 30 Km) – NETWORK SURVEYING³	
Fixed RTK Horizontal	8 mm + 1 ppm RMS
Fixed RTK Vertical	15 mm + 1 ppm RMS

INTEGRATED GNSS ANTENNA

High accuracy four constellation micro-strip antenna, zero phase center, with internal multipath suppressive board

INTERNAL RADIO

Type	Tx - Rx
Frequency Range	410 - 470 MHz
Channel Spacing	12.5 KHz / 25 KHz
Range	3-4 Km in urban environment Up to 10 Km with optimal conditions ⁴

INTERNAL MODEM

Band	GSM/GPRS/EDGE LTE/UMTS/WCDMA
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COMMUNICATION

I/O Connectors	7-pins Lemo and 5-pins Lemo interfaces. Multifunction cable with USB interface for PC connection
Bluetooth	2.1 + EDR, V4.0
Wi-Fi	802.11 b/g/n
Web UI	To upgrade the software, manage the status and settings, data download, etc. via smart phone, tablet or other internet enabled electronic device
Reference outputs	RTCM 2.3, 3.2 CMR, CMR+, ROX
Navigation outputs	GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL

POWER SUPPLY

Battery	2 rechargeable and replaceable 7.2 V – 3400 mAh Intelligent lithium batteries
Voltage	9 to 28 V DC external power input with over-voltage protection (5 pins Lemo)
Working Time	Up to 12 hours (2 batteries hot swap)
Charge Time	Typically 4 hours

PHYSICAL SPECIFICATION

Dimensions	φ 157 mm x 76 mm
Weight	1.19 Kg (with one battery) 1.30 Kg (with two batteries)
Operating Temperature	-30°C to 65°C (-22°F to 149°F)
Storage Temperature	-40°C to 80°C (-40°F to 176°F)
Waterproof/Dustproof	IP67 / IP68 ⁵
MIL- STD	MIL-STD-810F
Shock Resistance	Designed to endure to a 2 m pole drop on concrete floor with no damage
Vibration	Vibration resistant



7. OUTPUT

After DGPS Survey of Lease area and approach road Demarcated Forest land is **66.02 ha.**

7.1 BOUNDARY PILLAR COORDINATES OF THE LEASE AREA

MINING LEASE AREA BOUNDARY COORDINATES				
POINT	GEOGRAPHICAL COORDINATES (WGS 84)		UTM COORDINATES (ZONE - 44)	
	LATITUDE	LONGITUDE	NORTHING	EASTING
A	19° 24' 43.9000" N	81° 16' 58.6000" E	2146461.257	529705.873
B	19° 24' 51.4000" N	81° 17' 12.5000" E	2146692.456	530110.863
C	19° 24' 20.4000" N	81° 17' 31.9000" E	2145740.553	530678.246
D	19° 24' 12.5000" N	81° 17' 17.6000" E	2145497.028	530261.595
CD 01	19° 24' 51.4000" N	81° 17' 12.5000" E	2146692.456	530110.863
CD 02	19° 24' 50.0013" N	81° 17' 13.3754" E	2146649.507	530136.463
CD 03	19° 24' 48.6026" N	81° 17' 14.2507" E	2146606.557	530162.063
CD 04	19° 24' 47.2039" N	81° 17' 15.1261" E	2146563.608	530187.663
CD 05	19° 24' 45.8052" N	81° 17' 16.0014" E	2146520.659	530213.263
CD 06	19° 24' 44.4065" N	81° 17' 16.8768" E	2146477.709	530238.863
CD 07	19° 24' 43.0078" N	81° 17' 17.7521" E	2146434.76	530264.463
CD 08	19° 24' 41.6091" N	81° 17' 18.6274" E	2146391.811	530290.063
CD 09	19° 24' 40.2104" N	81° 17' 19.5028" E	2146348.862	530315.663
CD 10	19° 24' 38.8117" N	81° 17' 20.3781" E	2146305.912	530341.263
CD 11	19° 24' 37.4130" N	81° 17' 21.2534" E	2146262.963	530366.863
CD 12	19° 24' 36.0143" N	81° 17' 22.1287" E	2146220.014	530392.463
CD 13	19° 24' 34.6156" N	81° 17' 23.0041" E	2146177.064	530418.063
CD 14	19° 24' 33.2169" N	81° 17' 23.8794" E	2146134.115	530443.663
CD 15	19° 24' 31.8182" N	81° 17' 24.7547" E	2146091.166	530469.263
CD 16	19° 24' 30.4195" N	81° 17' 25.6300" E	2146048.216	530494.863
CD 17	19° 24' 29.0208" N	81° 17' 26.5053" E	2146005.267	530520.463
CD 18	19° 24' 27.6221" N	81° 17' 27.3806" E	2145962.318	530546.063
CD 19	19° 24' 26.2234" N	81° 17' 28.2559" E	2145919.369	530571.663
CD 20	19° 24' 24.8247" N	81° 17' 29.1311" E	2145876.419	530597.263
CD 21	19° 24' 23.4260" N	81° 17' 30.0064" E	2145833.47	530622.863
CD 22	19° 24' 22.0273" N	81° 17' 30.8817" E	2145790.521	530648.463
CD 23	19° 24' 20.6286" N	81° 17' 31.7570" E	2145747.571	530674.063
CD 24	19° 24' 20.3978" N	81° 17' 31.9000" E	2145740.553	530678.246
CD 25	19° 24' 19.5815" N	81° 17' 30.4184" E	2145715.323	530635.078
CD 26	19° 24' 18.7631" N	81° 17' 28.9369" E	2145690.092	530591.911
CD 27	19° 24' 17.9446" N	81° 17' 27.4553" E	2145664.862	530548.744
CD 28	19° 24' 17.1261" N	81° 17' 25.9737" E	2145639.631	530505.576
CD 29	19° 24' 16.3076" N	81° 17' 24.4922" E	2145614.4	530462.409
CD 30	19° 24' 15.4891" N	81° 17' 23.0106" E	2145589.17	530419.242
CD 31	19° 24' 14.6706" N	81° 17' 21.5290" E	2145563.939	530376.074
CD 32	19° 24' 13.8522" N	81° 17' 20.0475" E	2145538.709	530332.907
CD 33	19° 24' 13.0251" N	81° 17' 18.5504" E	2145513.478	530289.74
CD 34	19° 24' 12.5000" N	81° 17' 17.6000" E	2145497.028	530261.595
CD 35	19° 24' 13.9107" N	81° 17' 16.7464" E	2145540.348	530236.628
CD 36	19° 24' 15.3215" N	81° 17' 15.8928" E	2145583.668	530211.661

CD 37	19° 24' 16.7322" N	81° 17' 15.0393" E	2145626.989	530186.694
CD 38	19° 24' 18.1429" N	81° 17' 14.1857" E	2145670.309	530161.726
CD 39	19° 24' 19.5536" N	81° 17' 13.3321" E	2145713.629	530136.759
CD 40	19° 24' 20.9644" N	81° 17' 12.4785" E	2145756.949	530111.792
CD 41	19° 24' 22.3751" N	81° 17' 11.6249" E	2145800.27	530086.825
CD 42	19° 24' 23.7858" N	81° 17' 10.7713" E	2145843.59	530061.858
CD 43	19° 24' 25.1965" N	81° 17' 09.9177" E	2145886.91	530036.891
CD 44	19° 24' 26.6073" N	81° 17' 09.0641" E	2145930.23	530011.924
CD 45	19° 24' 28.0180" N	81° 17' 08.2104" E	2145973.551	529986.957
CD 46	19° 24' 29.4287" N	81° 17' 07.3568" E	2146016.871	529961.989
CD 47	19° 24' 30.8394" N	81° 17' 06.5032" E	2146060.191	529937.022
CD 48	19° 24' 32.2501" N	81° 17' 05.6496" E	2146103.511	529912.055
CD 49	19° 24' 33.6608" N	81° 17' 04.7959" E	2146146.832	529887.088
CD 50	19° 24' 35.0715" N	81° 17' 03.9423" E	2146190.152	529862.121
CD 51	19° 24' 36.4823" N	81° 17' 03.0887" E	2146233.472	529837.154
CD 52	19° 24' 37.8930" N	81° 17' 02.2350" E	2146276.792	529812.187
CD 53	19° 24' 39.3037" N	81° 17' 01.3814" E	2146320.113	529787.22
CD 54	19° 24' 40.7144" N	81° 17' 00.5277" E	2146363.433	529762.253
CD 55	19° 24' 42.1251" N	81° 16' 59.6740" E	2146406.753	529737.285
CD 56	19° 24' 43.5358" N	81° 16' 58.8204" E	2146450.073	529712.318
CD 57	19° 24' 43.9000" N	81° 16' 58.6000" E	2146461.257	529705.873
CD 58	19° 24' 44.7042" N	81° 17' 00.0903" E	2146486.046	529749.295
CD 59	19° 24' 45.5083" N	81° 17' 01.5806" E	2146510.835	529792.718
CD 60	19° 24' 46.3125" N	81° 17' 03.0710" E	2146535.624	529836.14
CD 61	19° 24' 47.1166" N	81° 17' 04.5613" E	2146560.412	529879.563
CD 62	19° 24' 47.9207" N	81° 17' 06.0516" E	2146585.201	529922.985
CD 63	19° 24' 48.7249" N	81° 17' 07.5420" E	2146609.99	529966.408
CD 64	19° 24' 49.5290" N	81° 17' 09.0323" E	2146634.779	530009.83
CD 65	19° 24' 50.3331" N	81° 17' 10.5227" E	2146659.567	530053.253
CD 66	19° 24' 51.1373" N	81° 17' 12.0130" E	2146684.356	530096.675

7.2 BOUNDARY PILLAR COORDINATES OF THE APPROACH ROAD

Approach Road Boundary Coordinates				
Point ID	Geographical Co-ordinates (WGS-84)		UTM Co-ordinates (Zone-44N)	
	Longitude(E)	Latitude(N)	Easting(X)	Northing(Y)
R1	81° 17' 10.9440" E	19° 24' 50.5600" N	530065.5200	2146666.5660
R2	81° 17' 08.4810" E	19° 24' 50.7600" N	529993.6946	2146672.5980
R3	81° 17' 08.4320" E	19° 24' 50.4040" N	529992.2833	2146661.6540
R4	81° 17' 06.4700" E	19° 24' 50.7470" N	529935.0539	2146672.1030
R5	81° 17' 06.5610" E	19° 24' 51.0960" N	529937.6774	2146682.8260
R6	81° 17' 05.2260" E	19° 24' 51.4890" N	529898.7381	2146694.8420
R7	81° 17' 05.0890" E	19° 24' 51.1540" N	529894.7388	2146684.5430
R8	81° 17' 03.3510" E	19° 24' 52.1150" N	529844.0196	2146713.9810
R9	81° 17' 03.6320" E	19° 24' 52.3640" N	529852.1847	2146721.6560
R10	81° 17' 03.4400" E	19° 24' 52.6470" N	529846.5905	2146730.3430
R11	81° 17' 03.0710" E	19° 24' 52.5290" N	529835.8253	2146726.7060
R12	81° 17' 03.0320" E	19° 24' 53.0050" N	529834.6613	2146741.3160
R13	81° 17' 03.4540" E	19° 24' 52.9940" N	529846.9847	2146741.0160
R14	81° 17' 03.8070" E	19° 24' 53.2360" N	529857.2550	2146748.4600
R15	81° 17' 03.2090" E	19° 24' 53.3180" N	529839.7983	2146750.9700
R16	81° 17' 03.6880" E	19° 24' 53.5850" N	529853.7577	2146759.1880
R17	81° 17' 04.4630" E	19° 24' 53.6560" N	529876.3511	2146761.4130
R18	81° 17' 04.4580" E	19° 24' 53.2950" N	529876.2411	2146750.3290
R19	81° 17' 06.3430" E	19° 24' 53.0810" N	529931.2128	2146743.8120
R20	81° 17' 06.3260" E	19° 24' 53.4430" N	529930.7192	2146754.9680
R21	81° 17' 08.1900" E	19° 24' 53.2310" N	529985.0873	2146748.5230
R22	81° 17' 08.2270" E	19° 24' 52.8660" N	529986.1845	2146737.2960
R23	81° 17' 08.7450" E	19° 24' 53.0240" N	530001.2832	2146742.1790
R24	81° 17' 08.5000" E	19° 24' 53.3250" N	529994.1206	2146751.4440
R25	81° 17' 08.7070" E	19° 24' 53.6330" N	530000.1467	2146760.9000
R26	81° 17' 09.1000" E	19° 24' 53.5500" N	530011.5987	2146758.3640
R27	81° 17' 09.0210" E	19° 24' 54.1210" N	530009.2722	2146775.9330
R28	81° 17' 08.6640" E	19° 24' 53.9470" N	529998.8679	2146770.5570
R29	81° 17' 08.3890" E	19° 24' 54.1900" N	529990.8316	2146778.0230
R30	81° 17' 08.5700" E	19° 24' 54.5200" N	529996.1022	2146788.1680
R31	81° 17' 07.3860" E	19° 24' 54.7610" N	529961.5561	2146795.5200
R32	81° 17' 05.3910" E	19° 24' 54.8010" N	529903.3680	2146796.6370
R33	81° 17' 04.9670" E	19° 24' 55.2540" N	529890.9698	2146810.5430
R34	81° 17' 02.3930" E	19° 24' 55.4110" N	529815.9045	2146815.2520
R35	81° 17' 02.5470" E	19° 24' 55.7460" N	529820.3835	2146825.5650
R36	81° 17' 02.1800" E	19° 24' 55.9910" N	529809.6532	2146833.0600
R37	81° 17' 01.8530" E	19° 24' 55.7700" N	529800.1501	2146826.2560
R38	81° 17' 01.7600" E	19° 24' 56.4610" N	529797.3958	2146847.4930
R39	81° 17' 02.1260" E	19° 24' 56.3720" N	529808.0788	2146844.7820
R40	81° 17' 02.3170" E	19° 24' 56.6400" N	529813.6229	2146853.0280
R41	81° 17' 02.1160" E	19° 24' 56.9610" N	529807.7389	2146862.8770
R42	81° 17' 02.6610" E	19° 24' 57.0960" N	529823.6511	2146867.0570

R43	81° 17' 02.6990" E	19° 24' 56.7350" N	529824.7528	2146855.9520
R44	81° 17' 04.0580" E	19° 24' 56.6640" N	529864.4058	2146853.8480
R45	81° 17' 03.8630" E	19° 24' 57.0270" N	529858.7061	2146864.9820
R46	81° 17' 06.5050" E	19° 24' 56.9740" N	529935.7599	2146863.4800
R47	81° 17' 06.6410" E	19° 24' 56.6120" N	529939.7190	2146852.3810
R48	81° 17' 07.2170" E	19° 24' 57.0760" N	529956.5021	2146866.6540
R49	81° 17' 06.8750" E	19° 24' 57.2710" N	529946.5353	2146872.6440
R50	81° 17' 06.9790" E	19° 24' 57.7150" N	529949.5341	2146886.2940
R51	81° 17' 07.3710" E	19° 24' 57.7350" N	529960.9580	2146886.9360
R52	81° 17' 07.1680" E	19° 24' 58.3020" N	529955.0205	2146904.3530
R53	81° 17' 06.8440" E	19° 24' 58.0940" N	529945.5684	2146897.9270
R54	81° 17' 06.4280" E	19° 24' 58.4300" N	529933.4333	2146908.2560
R55	81° 17' 06.5840" E	19° 24' 58.7760" N	529937.9448	2146918.8870
R56	81° 17' 03.2700" E	19° 24' 59.0890" N	529841.3057	2146928.3400
R57	81° 17' 03.2320" E	19° 24' 58.7320" N	529840.1960	2146917.3760
R58	81° 16' 58.8410" E	19° 24' 59.1750" N	529712.1370	2146930.7720
R59	81° 16' 58.9630" E	19° 24' 59.5230" N	529715.6638	2146941.4830
R60	81° 16' 58.6910" E	19° 24' 59.6750" N	529707.7411	2146946.1460
R61	81° 16' 58.3940" E	19° 24' 59.4250" N	529699.0883	2146938.4510
R62	81° 16' 58.2040" E	19° 24' 59.8370" N	529693.5182	2146951.1000
R63	81° 16' 58.6040" E	19° 24' 59.9740" N	529705.1907	2146955.3350
R64	81° 16' 58.2560" E	19° 25' 00.2110" N	529695.0313	2146962.5950
R65	81° 16' 58.5900" E	19° 25' 00.5840" N	529704.7416	2146974.0800
R66	81° 16' 58.8360" E	19° 25' 00.3050" N	529711.9338	2146965.5190
R67	81° 17' 00.4700" E	19° 25' 01.2610" N	529759.5290	2146994.9630
R68	81° 17' 00.2750" E	19° 25' 01.5680" N	529753.8299	2147004.3950
R69	81° 17' 02.7840" E	19° 25' 02.5240" N	529826.9365	2147033.9130
R70	81° 17' 02.6200" E	19° 25' 02.8780" N	529822.1405	2147044.7660
R71	81° 17' 02.8770" E	19° 25' 03.2500" N	529829.6212	2147056.2380
R72	81° 17' 03.2650" E	19° 25' 03.1580" N	529840.9320	2147053.4080
R73	81° 17' 03.1990" E	19° 25' 03.8780" N	529838.9887	2147075.5430
R74	81° 17' 02.8330" E	19° 25' 03.7350" N	529828.3139	2147071.1280
R75	81° 17' 02.5520" E	19° 25' 04.0550" N	529820.0943	2147080.9510
R76	81° 17' 02.7630" E	19° 25' 04.3740" N	529826.2554	2147090.7600
R77	81° 17' 02.0300" E	19° 25' 04.1810" N	529804.8698	2147084.8000
R78	81° 17' 01.8240" E	19° 25' 04.5570" N	529798.8515	2147096.3430
R79	81° 16' 57.6730" E	19° 25' 03.9010" N	529677.8357	2147075.9890
R80	81° 16' 57.7100" E	19° 25' 03.5440" N	529678.9338	2147065.0060
R81	81° 16' 54.8670" E	19° 25' 03.4310" N	529596.0235	2147061.4040
R82	81° 16' 54.9200" E	19° 25' 03.7920" N	529597.5554	2147072.5010
R83	81° 16' 54.5750" E	19° 25' 03.9260" N	529587.4930	2147076.6000
R84	81° 16' 54.3780" E	19° 25' 03.5840" N	529581.7588	2147066.0960
R85	81° 16' 54.0100" E	19° 25' 03.9960" N	529570.9915	2147078.7190
R86	81° 16' 54.3370" E	19° 25' 04.2780" N	529580.5325	2147087.4110
R87	81° 16' 53.9240" E	19° 25' 04.4170" N	529568.4805	2147091.6810
R88	81° 16' 54.3960" E	19° 25' 04.6710" N	529582.2332	2147099.4880
R89	81° 16' 54.0630" E	19° 25' 04.8650" N	529572.4907	2147105.4460
R90	81° 16' 54.4710" E	19° 25' 05.2300" N	529584.3924	2147116.6810

R91	81° 16' 54.6840" E	19° 25' 04.9270" N	529590.6075	2147107.3940
R92	81° 16' 57.1880" E	19° 25' 05.9920" N	529663.5796	2147140.2370
R93	81° 16' 56.9610" E	19° 25' 06.2880" N	529656.9417	2147149.3340
R94	81° 16' 59.6920" E	19° 25' 07.0570" N	529736.5517	2147173.0800
R95	81° 16' 59.4500" E	19° 25' 07.3470" N	529729.4910	2147181.9870
R96	81° 16' 59.8770" E	19° 25' 07.8740" N	529741.9111	2147198.2190
R97	81° 17' 00.3340" E	19° 25' 07.8500" N	529755.2368	2147197.5000
R98	81° 17' 00.2720" E	19° 25' 08.7020" N	529753.3884	2147223.6860
R99	81° 16' 59.8690" E	19° 25' 08.6140" N	529741.6346	2147220.9470
R100	81° 16' 59.3940" E	19° 25' 09.1720" N	529727.7434	2147238.0870
R101	81° 16' 59.7620" E	19° 25' 09.3860" N	529738.4681	2147244.6950
R102	81° 16' 58.9300" E	19° 25' 09.6540" N	529714.2064	2147252.8640
R103	81° 16' 58.7340" E	19° 25' 09.3490" N	529708.4898	2147243.4890
R104	81° 16' 54.8530" E	19° 25' 09.9740" N	529595.2987	2147262.5070
R105	81° 16' 54.9860" E	19° 25' 10.3020" N	529599.1539	2147272.6170
R106	81° 16' 51.0420" E	19° 25' 10.9510" N	529484.1014	2147292.3710
R107	81° 16' 50.9730" E	19° 25' 10.5980" N	529482.1075	2147281.5260
R108	81° 16' 48.2760" E	19° 25' 11.1630" N	529403.4126	2147298.7570
R109	81° 16' 48.3510" E	19° 25' 11.5150" N	529405.5834	2147309.5630
R110	81° 16' 45.6590" E	19° 25' 12.0780" N	529327.0653	2147326.7550
R111	81° 16' 45.5780" E	19° 25' 11.7280" N	529324.7177	2147315.9880
R112	81° 16' 42.1770" E	19° 25' 12.4340" N	529225.4911	2147337.5330
R113	81° 16' 42.2550" E	19° 25' 12.7850" N	529227.7500	2147348.3190
R114	81° 16' 38.8500" E	19° 25' 13.4920" N	529128.4346	2147369.8830
R115	81° 16' 38.7750" E	19° 25' 13.1400" N	529126.2646	2147359.0780
R116	81° 16' 36.1160" E	19° 25' 13.6100" N	529048.6814	2147373.4010
R117	81° 16' 36.1700" E	19° 25' 13.9650" N	529050.2473	2147384.3190
R118	81° 16' 33.9950" E	19° 25' 14.1810" N	528986.8082	2147390.8350
R119	81° 16' 33.9760" E	19° 25' 13.8220" N	528986.2889	2147379.8100
R120	81° 16' 31.7920" E	19° 25' 13.8080" N	528922.5796	2147379.2860
R121	81° 16' 31.7790" E	19° 25' 14.1670" N	528922.2028	2147390.3030
R122	81° 16' 27.3510" E	19° 25' 13.9200" N	528793.0602	2147382.5260
R123	81° 16' 27.4070" E	19° 25' 13.5640" N	528794.7172	2147371.5860
R124	81° 16' 25.1670" E	19° 25' 13.0470" N	528729.4138	2147355.5710
R125	81° 16' 25.0680" E	19° 25' 13.3930" N	528726.5312	2147366.2110
R126	81° 16' 21.4460" E	19° 25' 12.3780" N	528620.9358	2147334.8540
R127	81° 16' 21.5570" E	19° 25' 12.0360" N	528624.1854	2147324.3230
R128	81° 16' 17.9470" E	19° 25' 11.0240" N	528518.9570	2147293.0760
R129	81° 16' 17.8230" E	19° 25' 11.3640" N	528515.3404	2147303.4980
R130	81° 16' 16.6000" E	19° 25' 10.5170" N	528479.7053	2147277.4260
R131	81° 16' 16.0820" E	19° 25' 10.7030" N	528464.6005	2147283.1210
R132	81° 16' 15.0470" E	19° 25' 10.3010" N	528434.4442	2147270.7190
R133	81° 16' 15.1920" E	19° 25' 09.9700" N	528438.6819	2147260.5460
R134	81° 16' 12.7780" E	19° 25' 09.3970" N	528368.3136	2147242.8180
R135	81° 16' 11.8620" E	19° 25' 09.0320" N	528341.6280	2147231.5600
R136	81° 16' 11.9040" E	19° 25' 08.6730" N	528342.8521	2147220.5280
R137	81° 16' 11.4540" E	19° 25' 08.4240" N	528329.7529	2147212.8540
R138	81° 16' 11.2780" E	19° 25' 08.7410" N	528324.6091	2147222.6000

R139	81° 16' 07.8730" E	19° 25' 07.0380" N	528225.3711	2147170.0890
R140	81° 16' 08.0450" E	19° 25' 06.7190" N	528230.4108	2147160.2880
R141	81° 16' 04.6360" E	19° 25' 05.0140" N	528131.0687	2147107.7220
R142	81° 16' 04.4670" E	19° 25' 05.3350" N	528126.1332	2147117.5780
R143	81° 16' 01.8490" E	19° 25' 03.7690" N	528049.8756	2147069.3190
R144	81° 16' 01.4370" E	19° 25' 03.9820" N	528037.8241	2147075.8490
R145	81° 15' 59.3660" E	19° 25' 03.0670" N	527977.4959	2147047.6400
R146	81° 15' 59.5070" E	19° 25' 02.7340" N	527981.6191	2147037.4030
R147	81° 15' 56.9830" E	19° 25' 01.9220" N	527908.0423	2147012.3330
R148	81° 15' 56.8840" E	19° 25' 02.2680" N	527905.1362	2147022.9850
R149	81° 15' 54.2590" E	19° 25' 01.7560" N	527828.6184	2147007.1320
R150	81° 15' 54.3250" E	19° 25' 01.4030" N	527830.5465	2146996.2770
R151	81° 15' 51.2160" E	19° 25' 00.9700" N	527739.9050	2146982.8280
R152	81° 15' 51.1760" E	19° 25' 01.3270" N	527738.7272	2146993.7940
R153	81° 15' 46.0770" E	19° 25' 01.0110" N	527590.0323	2146983.8620
R154	81° 15' 46.0860" E	19° 25' 00.6530" N	527590.3310	2146972.8370
R155	81° 15' 43.0870" E	19° 25' 00.6930" N	527502.8679	2146973.9320
R156	81° 15' 43.1040" E	19° 25' 01.0510" N	527503.3382	2146984.9470
R157	81° 15' 39.9600" E	19° 25' 01.2730" N	527411.6281	2146991.6370
R158	81° 15' 39.9180" E	19° 25' 00.9170" N	527410.4399	2146980.6750
R159	81° 15' 36.3890" E	19° 25' 1.4040" N	527307.4887	2146995.5090
R160	81° 15' 36.4580" E	19° 25' 01.7570" N	527309.5020	2147006.3530
R161	81° 15' 32.0170" E	19° 25' 02.7240" N	527179.9428	2147035.8760
R162	81° 15' 31.8570" E	19° 25' 02.3940" N	527175.2762	2147025.7290
R163	81° 15' 28.2240" E	19° 25' 03.4920" N	527069.2856	2147059.3270
R164	81° 15' 28.3550" E	19° 25' 03.8290" N	527073.1002	2147069.6780
R165	81° 15' 25.4800" E	19° 25' 04.9840" N	526989.1941	2147105.0710
R166	81° 15' 25.3130" E	19° 25' 04.6620" N	526984.3368	2147095.1600
R167	81° 15' 22.7490" E	19° 25' 06.0340" N	526909.5072	2147137.2300
R168	81° 15' 22.9480" E	19° 25' 06.340" N	526915.2889	2147146.6220
R169	81° 15' 20.8560" E	19° 25' 07.6770" N	526854.2338	2147187.6320
R170	81° 15' 20.6230" E	19° 25' 07.3940" N	526847.4456	2147178.9160
R171	81° 15' 18.6750" E	19° 25' 09.0590" N	526790.5553	2147230.0290
R172	81° 15' 18.9370" E	19° 25' 09.3170" N	526798.1978	2147237.9770
R173	81° 15' 16.7860" E	19° 25' 11.4240" N	526735.3713	2147302.6210
R174	81° 15' 16.4990" E	19° 25' 11.1900" N	526726.9917	2147295.4310
R175	81° 15' 15.1770" E	19° 25' 13.4500" N	526688.3575	2147364.8400
R176	81° 15' 14.4000" E	19° 25' 14.4290" N	526665.6386	2147394.9070
R177	81° 15' 14.0640" E	19° 25' 14.2570" N	526655.8500	2147389.5820
R178	81° 15' 12.4190" E	19° 25' 18.5590" N	526607.6950	2147521.7710
R179	81° 15' 12.7770" E	19° 25' 18.6750" N	526618.1201	2147525.3490
R180	81° 15' 11.8200" E	19° 25' 21.5050" N	526590.0922	2147612.2940
R181	81° 15' 11.4600" E	19° 25' 21.3970" N	526579.5965	2147608.9360
R182	81° 15' 10.5010" E	19° 25' 24.2340" N	526551.4980	2147696.1000
R183	81° 15' 10.8630" E	19° 25' 24.3350" N	526562.0643	2147699.2400
R184	81° 15' 10.0760" E	19° 25' 27.0950" N	526538.9749	2147784.0440
R185	81° 15' 09.7110" E	19° 25' 27.0020" N	526528.3411	2147781.1520
R186	81° 15' 08.9210" E	19° 25' 29.7700" N	526505.1842	2147866.2040

R187	81° 15' 09.2880" E	19° 25' 29.8560" N	526515.8855	2147868.8480
R188	81° 15' 08.6080" E	19° 25' 32.7830" N	526495.9022	2147958.7910
R189	81° 15' 08.2110" E	19° 25' 32.8250" N	526484.3283	2147960.0750
R190	81° 15' 07.5000" E	19° 25' 35.8800" N	526463.4724	2148053.9460
R191	81° 15' 07.9270" E	19° 25' 35.7100" N	526475.9190	2148048.7350
R192	81° 15' 06.9540" E	19° 25' 40.9420" N	526447.3046	2148209.5170
R193	81° 15' 06.5830" E	19° 25' 40.8700" N	526436.5078	2148207.2860
R194	81° 15' 05.3220" E	19° 25' 45.9390" N	526399.4868	2148363.0300
R195	81° 15' 05.6900" E	19° 25' 46.0180" N	526410.2303	2148365.4850
R196	81° 15' 04.4270" E	19° 25' 51.0940" N	526373.1559	2148521.4540
R197	81° 15' 04.0600" E	19° 25' 51.0070" N	526362.4658	2148518.7740
R198	81° 15' 02.5930" E	19° 25' 56.3170" N	526319.4454	2148681.9060
R199	81° 15' 02.9580" E	19° 25' 56.4080" N	526330.0980	2148684.7280
R200	81° 15' 01.4000" E	19° 26' 01.9960" N	526284.4142	2148856.4140
R201	81° 15' 01.0480" E	19° 26' 01.8580" N	526274.1453	2148852.1500
R202	81° 14' 58.7480" E	19° 26' 05.6190" N	526206.9133	2148967.6620
R203	81° 14' 59.0630" E	19° 26' 05.8180" N	526216.0916	2148973.7990
R204	81° 14' 56.7130" E	19° 26' 08.7490" N	526147.4431	2149063.7780
R205	81° 14' 56.4210" E	19° 26' 08.5210" N	526138.9409	2149056.7540
R206	81° 14' 54.6980" E	19° 26' 10.4820" N	526088.6104	2149116.9660
R207	81° 14' 54.9880" E	19° 26' 10.7120" N	526097.0668	2149124.0450
R208	81° 14' 53.2640" E	19° 26' 12.6750" N	526046.6905	2149184.3120
R209	81° 14' 52.9750" E	19° 26' 12.4430" N	526038.2800	2149177.1770
R210	81° 14' 51.2520" E	19° 26' 14.4040" N	525987.9495	2149237.3890
R211	81° 14' 51.5390" E	19° 26' 14.6380" N	525996.3142	2149244.5790
R212	81° 14' 49.8150" E	19° 26' 16.6010" N	525945.9379	2149304.8460
R213	81° 14' 49.5290" E	19° 26' 16.3660" N	525937.6190	2149297.6010
R214	81° 14' 47.9330" E	19° 26' 17.9540" N	525891.0173	2149346.3480
R215	81° 14' 48.2070" E	19° 26' 18.2010" N	525898.9874	2149353.9580
R216	81° 14' 46.5990" E	19° 26' 19.8010" N	525852.0370	2149403.0700
R217	81° 14' 46.3370" E	19° 26' 19.5420" N	525844.4155	2149395.0950
R218	81° 14' 44.5730" E	19° 26' 21.0070" N	525792.9163	2149440.0430
R219	81° 14' 44.8290" E	19° 26' 21.2710" N	525800.3502	2149448.1820
R220	81° 14' 43.0580" E	19° 26' 22.7410" N	525748.6635	2149493.2930
R221	81° 14' 42.8090" E	19° 26' 22.4710" N	525741.4172	2149484.9900
R222	81° 14' 41.0420" E	19° 26' 23.9390" N	525689.8243	2149530.0190
R223	81° 14' 41.2900" E	19° 26' 24.2090" N	525697.0474	2149538.3420
R224	81° 14' 39.5220" E	19° 26' 25.6770" N	525645.4314	2149583.3920
R225	81° 14' 39.2750" E	19° 26' 25.4060" N	525638.2314	2149575.0490
R226	81° 14' 37.1320" E	19° 26' 27.1460" N	525575.6566	2149628.4450
R227	81° 14' 37.3820" E	19° 26' 27.4150" N	525582.9403	2149636.7160
R228	81° 14' 35.2410" E	19° 26' 29.1530" N	525520.4493	2149690.0410
R229	81° 14' 34.9880" E	19° 26' 28.8860" N	525513.0818	2149681.8410
R230	81° 14' 32.5210" E	19° 26' 30.9410" N	525441.0634	2149744.9110
R231	81° 14' 32.7900" E	19° 26' 31.1930" N	525448.8901	2149752.6550
R232	81° 14' 30.3390" E	19° 26' 33.2330" N	525377.3310	2149815.2700
R233	81° 14' 30.0540" E	19° 26' 32.9970" N	525369.0450	2149807.9820
R234	81° 14' 27.7260" E	19° 26' 35.2660" N	525301.0470	2149877.6400

R235	81° 14' 28.0030" E	19° 26' 35.5090" N	525309.1329	2149885.1330
R236	81° 14' 25.6680" E	19° 26' 37.7850" N	525240.9348	2149954.9960
R237	81° 14' 25.3970" E	19° 26' 37.5350" N	525233.0491	2149947.2990

7.3 LAND CLASSIFICATION OF THE SURVEYED AREA:

Land Classification Of Chhote Dongar Iron Ore Mine and Approach Road								
S.N.	Forest Division/District	Forst Range/Tehsil	Type of Land	Village	NEW Compartment No.	COMPONENT	LENGTH X WIDTH (meter)	Surveyed Area (In Ha.)
1	NARAYANPUR (C.G.)	NARAYANPUR	GOVT. FOREST LAND	CHHOTE DONGAR	2180 (252)	LEASE AREA		20.00
					2184 (267)			20.00
					2179 (268)			14.00
					2185 (269)			3.00
					2184	APPROACH ROAD	2770.9 X 11	3.05
					2188		381.81 X 11	0.42
					2180		126.36 X 11	0.14
					2183		30 X 11	0.03
					2181		1029.09 X 11	1.13
					P2226A		881.81 X 11	0.97
					P2226		626.36 X 11	0.69
					2182		2157.27 X 11	2.37
					P2217		195.45 X 11	0.22
					TOTAL FOREST LAND			



8. PHOTOGRAPHS :









