



कार्यालय वनमंडलाधिकारी, दक्षिण कोंडागांव वनमंडल

File No. 07786-242303

जिला-कोंडागांव (छ.ग.)

E-mail: southfedkgn@yahoo.co.in

क्रमांक/मा.चि./५/०१८

कोंडागांव, दिनांक १७/३/२०२०

प्रति,

उप मण्डल अभियंता

दूर संचार परियोजना

BHARAT SANCHAR NIGAM LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)
Office of the Divisional Engineer, Telecom Project
C-18, BSNL Colony, Khamardih, Raipur (C.G.)

विषय:- घोड़ागांव से कोंडागांव वाया कोण्डागांव से माकड़ी से छतोड़ी तक ओ.एफ.सी. लाईन बिछाने हेतु।

संदर्भ:- आपका पत्र क्रमांक/DE/TP/RP/Forest Permission/2019-20/114, दिनांक 14/02/2020.

संदर्भित पत्र द्वारा दक्षिण कोंडागांव वनमंडल अंतर्गत वन संरक्षण अधिनियम, 1980 के तहत घोड़ागांव से कोंडागांव वाया कोण्डागांव से माकड़ी से छतोड़ी तक ऑप्टिकल फायबर केबल (ओ.एफ.सी.) लाईन बिछाने हेतु रकबा 2.176 हेक्टेयर क्षेत्र के वन भूमि गैर वानिकी कार्य के उपयोग हेतु वन भूमि प्रत्यावर्तन प्रस्ताव के लिय प्रस्तावित वन भूमि का डी.जी.पी.एस. सर्वे रिपोर्ट हस्ताक्षर उपरांत इस ज्ञापन के साथ आवश्यक कार्यवाही हेतु संलग्न प्रेषित है।

कृपया प्रकरण में उक्त परियोजना के नाम से भारत सरकार के वेब पोर्टल साईट (PARIVESH) पर ऑनलाईन पंजीयन की कार्यवाही शीघ्र पूर्ण कर इस कार्यालय को अवगत कराने का कष्ट करें, ताकि प्रकरण पर अग्रिम कार्यवाही किया जा सकें।

वर्तमान में किसी भी प्रकार की वन भूमि में कार्य प्रारंभ करने की अनुमति नहीं है।

संलग्न:- डी.जी.पी.एस. सर्वे रिपोर्ट मूलतः एक प्रति।


वनमंडलाधिकारी
दक्षिण कोंडागांव वनमंडल
कोंडागांव

पृ.क्रमांक/मा.चि./५/०१९

कोंडागांव, दिनांक १७/३/२०२०

प्रतिलिपि :-

1. मुख्य वन संरक्षक, कांकेर वृत्त, कांकेर की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु सादर सम्प्रेषित है।
2. कलेक्टर, जिला कोंडागांव (छ.ग.) की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है।


वनमंडलाधिकारी
दक्षिण कोंडागांव वनमंडल
कोंडागांव

all

BHARAT SANCHAR NIGAM LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE)

Office of the Divisional Engineer Telecom Project

C-18, BSNL Colony, Khamardih, Raipur (C.G)

☎ - (0771) 2583518, 2583519.

DE/TP/RP/Forest Permission/2019-20/112

Dated, at the Raipur 13/01/2020

Authority Letter

I hereby authorize Shri Avnish Kumar Chaturvedi Sub Divisional Engineer, Telecom Project, Raipur for submitting RoW applications with forest Department , Chhattisgarh under project for laying optical cable in the State of Chhattisgarh by BSNL WTP Raipur.

The application needs to be submitted online in FOREST CLEARANCE Portal along with submission of hard copy to forest department for linear diversion on behalf of Divisional Engineer, Telecom Western Telecom Project, Raipur

The sample of Signature for authorized signatory is mentioned as below

Name:- Shri Avnish Kumar Chaturvedi

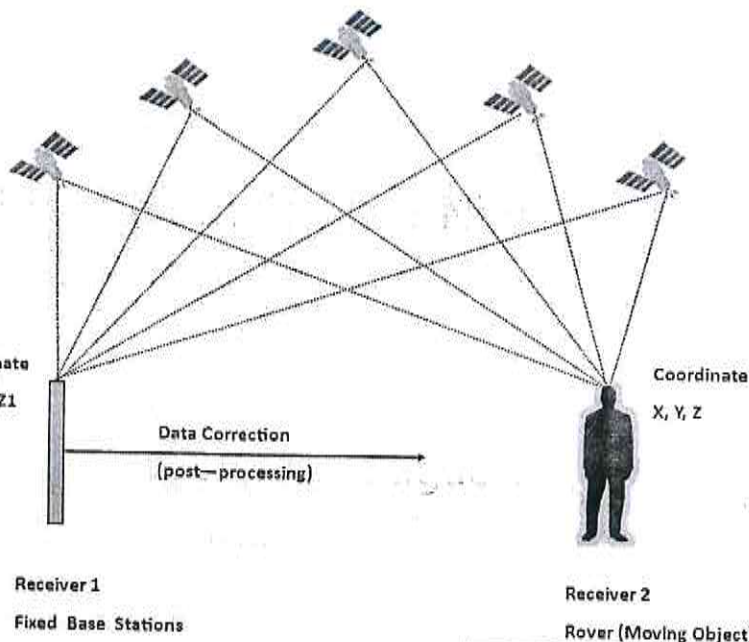

Signature
Sub Divisional Engineer
B.S.N.L. Telecom Project
Raipur (C.G.) 492001
13/01/2020


N. K. Patil
Divisional Engineer
Telecom Project
Raipur
13/01/2020



**DGPS Survey Report For
Diversion Land for Bharat Sanchar Nigam Limited (BSNL)
Raipur OFC cable in South Kondagaon**

**Forest Division South Kondagaon
District - Kondagaon
Chhattisgarh**



Base Station

DGPS

Name of the Applicant:



Name of the Applicant

**Bharat Sanchar Nigam Limited,
C-18, BSNL Colony, Khamardih,
Raipur, Chhattisgarh.**



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S. No. PARTICULAR

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MAPS ON A3 SIZE PRINTOUT

S. No. PARTICULARS

- 1 LOCATION MAP
- 2 GEO REFERENCE SURVEY SITE
- 3 SURVEY SITE SUPERIMPOSE ON GOOGLE IMAGE
- 4 SURVEY SITE SUPERIMPOSE ON SATELLITE IMAGE
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DATA ENCLOSED IN SOFT COPY

S. NO. PARTICULARS

- 1 SURVEY REPORT
- 2 KML FILE
- 3 SHP FILE
- 4 MAPS IN JPEG & PDF FORMAT



1. ABOUT BSNL

Bharat Sanchar Nigam Ltd. was incorporated on 15th september 2000 . It took over the business of providing of telecom services and network management from the erstwhile Central Government Departments of Telecom Services (DTS) and Telecom Operations (DTO), with effect from 1st October' 2000 on going



concern basis. It is one of the largest & leading public sector units providing comprehensive range of telecom services in India.

BSNL has installed Quality Telecom Network in the country & now focusing on improving it, expanding the network, introducing new telecom services with ICT applications in villages & winning customer's confidence. As on 30.04.2019, it has about 29.63 million line basic telephone capacity, 1.39 million WLL capacity, 114.62 million GSM capacity, 31,611 fixed exchanges, 1,46,172 GSM BTSs, 95 Satellite Stations, 8,49,990 Rkm. of OFC, 2,548 Rkm. of microwave network.

BSNL is the only service provider, making focused efforts & planned initiatives to bridge the rural-urban digital divide in ICT sector. In fact there is no telecom operator in the country to beat its reach with its wide network giving services in every nook & corner of the country & operates across India except New Delhi & Mumbai. Whether it is inaccessible areas of Siachen glacier or North-Eastern regions of the country, BSNL serves its customers with a wide bouquet of telecom services namely Wireline, CDMA mobile, GSM mobile, Internet, Broadband, Carrier service, MPLS-VPN, VSAT, VoIP, IN Services, FTTH, etc.



BSNL is one of major service provider in its license area. The company offers wide ranging & most transparent tariff schemes designed to suit every customer. BSNL has 115.87 million cellular as on 30.04.2019. 3G Facility has been given to all 2G connections of BSNL. In basic services, BSNL is miles ahead of its rivals, with 11.17 million wireline phone subscribers i.e. 51.47% share of the wireline subscriber as on 31.03.2019.

BSNL has set up a world class multi-gigabit, multi-protocol convergent IP infrastructure that provides convergent services like voice, data & video through the same Backbone & Broadband Access Network. As on 30.04.2019 there are 21.56 million broadband customers including both wireline & wireless broadband.

The company has vast experience in planning, installation, network integration & maintenance of switching & transmission networks & also has a world class ISO 9000 certified Telecom Training Institute.

During the 2017-18, turnover of BSNL is around Rs. 25,071 Crores.

VISION:

- Be the leading telecom service provider in India with global presence.
- Create a customer focused organization with excellence in customer care, sales and marketing.
- Leverage technology to provide affordable and innovative telecom. Services/products across customer segments.

MISSION:

Be the leading telecom service provider in India with global presence.

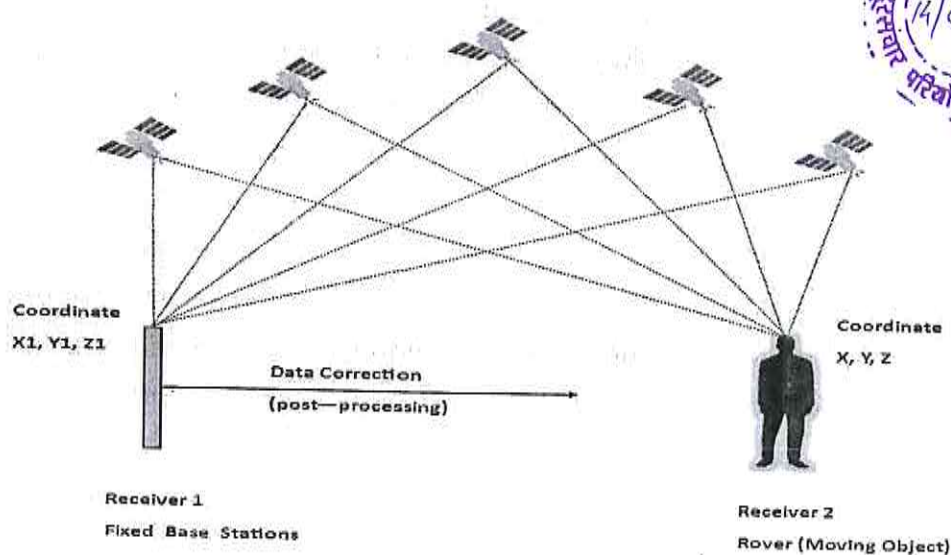
- Becoming the most trusted, preferred and admired telecom brand.
- Providing reliable telecom services that are value for money.
- Generating value for all stakeholders – employees, shareholders, vendors & business associates.
- Excellence in customer service -friendly, reliable, time bound, convenient and courteous service.
- Offering differentiated products/services tailored to different service segments.
- Developing a marketing and sales culture that is responsive to customer needs.
- Maximizing return on existing assets with sustained focus on profitability.



OBJECTIVES:

- Increasing sales revenue with focus on subscriber retention & acquisition by way of strengthening sales & marketing, quality of service and customer delivery.
- Accelerate the pace of expansion of mobile & data services with up-gradation of technology.
- Adopt policies and processes to enable transparent , quick and efficient decision making.
- Developing marketing team with attitude towards customer care.
- Increasing BSNL visibility in urban, sub-urban and rural areas.
- Improve customer care by reducing fault rate, upgrading Customer service Centres (CSCs) and introducing convergent billing.
- Providing a conducive work environment with strong focus on performance to enhance customer delight towards BSNL services.
- Leverage data services to increase BSNL's customer's base & revenues by providing higher bandwidths capabilities for wire line and wireless broadband customers.
- Strengthen company's finances by gainful utilization of its assets through sharing / monetization of existing infrastructure like land, building and sharing of passive infrastructure like towers etc.
- Creating Wi-Fi Hot Spots and replacing Legacy wire line exchanges by Next Generation Network.
- Expanding the reach of fiber network near to the customer premises particularly in apartment complexes through FTTH in order to meet the ever increasing bandwidth requirement for both data & video applications.

2. INTRODUCTION TO DGPS



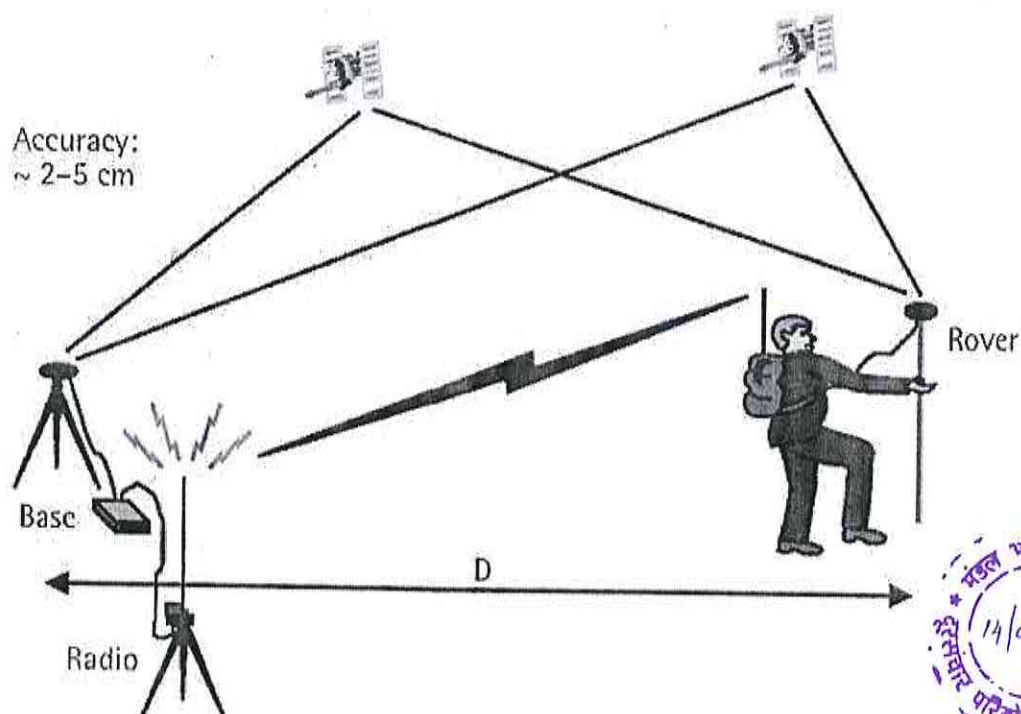
The term DGPS is sometimes used to refer to differential GPS that is based on pseudo ranges, aka code phase. Even though the accuracy of code phase applications was given a boost with the elimination of Selective Availability (SA) in May 2000 consistent accuracy better than the 2-5 meter range still requires reduction of the effect of correlated ephemeris and atmospheric errors by differential corrections. Though the corrections could be applied in post-processing services that supply these corrections, most often operate in real-time. In such an operation pseudo range based versions can offer meter- or even sub meter results.

Usually, pseudo range corrections are broadcast from the base to the rover or rovers for each satellite in the visible constellation. Rovers with an appropriate input/output (I/O) port can receive the correction signal and calculate coordinates. The real-time signal comes to the receiver over a data link. It can originate at a project specific base station or it can come to the user through a service of which there are various categories. Some are open to all users and some are by subscription only. Coverage depends on the spacing of the beacons, aka transmitting base stations, their power, interference, and so forth. Some systems require two-way, some one-way, communication with the base stations. Radio systems, geostationary satellites, low-earth-orbiting.

3. SURVEY METHOD

1. RTK (Real Time Kinematic)
2. STATIC METHOD

1 .Real-Time Kinematic





The mode of a base or reference receiver at a known location logging data at the same time as a receiver at an unknown location together provide the fundamental information for the determination of accurate coordinates. While this basic approach remains today, the majority of GPS surveying is not done in the static post-processed mode. Post-processing is most often applied to control work. Now, the most commonly used methods utilize receivers on reference stations that provide correction signals to the end user via a data link sometimes over the Internet, radio signal, or cell phone and often in real-time.

In this category of GPS surveying work there is sometimes a distinction made between code-based and carrier based solutions. In fact, most systems use a combination of code and carrier measurements so the distinction is more a matter of emphasis rather than an absolute difference. Well that's a bit of discussion about static surveying, but as you know, a good deal of GPS these days is done not static. Much work is now done with DGPS or real-time kinematic, RTK.

Errors in satellite clocks, imperfect orbits, the trip through the layers of the atmosphere, and many other sources contribute inaccuracies to GPS signals by the time they reach a receiver.

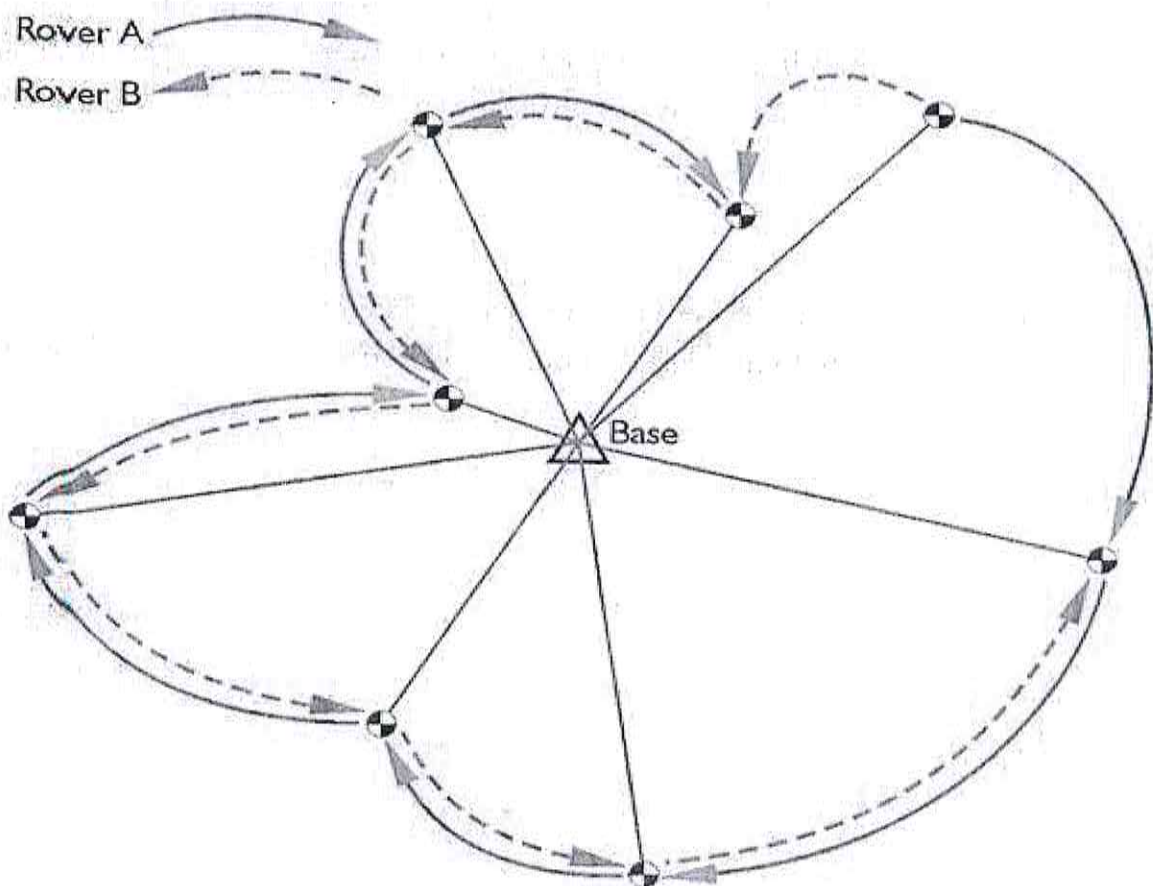
These errors are variable, so the best way to correct them is to monitor them as they happen. A good way to do this is to set up a GPS receiver on a station whose position is known exactly, a base station. This base station receiver's computer can calculate its position from satellite data, compare that position with its actual known position, and find the difference. The resulting error corrections can be communicated from the base to the rover. It works well, but the errors are constantly changing so a base station has to monitor them all the time, at least all the time the rover receiver or receivers are working. While this is happening the rovers move from place to place collecting the points whose positions you want to know relative to the base station, which is the real objective after all. Then all you have to do is get those base station corrections and the rover's data together somehow. That combination can be done over a data link in real-time, or applied later in post processing.



Real-time positioning is built on the foundation of the idea that, with the important exceptions of multipath and receiver noise, GPS error sources are correlated. In other words, the closer the rover is to the base the more the errors at the ends of the baseline match. The shorter the baseline, the more the errors are correlated. The longer the baseline, the less the errors are correlated.

The base station is at a known point, whether it was on a building permanently or it's a tripod mounted base station. The fact that it is in a known position allows the base station to produce corrections. The constellation is telling the base station that it is in a slightly different place, so

corrections can be created to sent to the rover at the unknown point. The corrections are applied in real time.



RADIAL GPS

Such real-time surveying is essentially radial. There are advantages to the approach. The advantage is a large number of positions can be established in a short amount of time with little or no planning. The disadvantage is that there is little or no redundancy in positions derived, each of the baselines originates from the same control station. Redundancy can be incorporated, but it requires repetition of the observations so each baseline is determined with more than one GPS constellation. One way to do it is to occupy the project points, the unknown positions, successively with more than one rover. It is best if these successive occupations are separated by at least 4 hours and not more than 8 hours so the satellite constellation can reach a significantly different configuration.

RTK and DGPS are radial. You have a known point in the middle, the base, and then the unknown points around it. This provides little geometric solidity. If there's an error in one of these radial base lines, it would be tough to catch it because there's no real redundancy. The illustration shows a way around this difficulty. There are two receivers, A and B, and it's possible by double occupation, one receiver going one way and the other going the other, by double occupying the unknown points to get some redundancy and some checks against the positions from a base. Another way to do it is to use one receiver. That receiver would occupy each point twice with four to eight hours between the first occupation and the second occupation on the point. Another way is to move the base to another known point. Then if you have vectors from another base into these points, you have a check. This approach allows a solution to be available from two separate control stations. Obviously, this can be done with re-occupation of the project points after one base station has been moved to a new control point, or a two base stations can be up and running from the very outset and throughout of the work as would be the case using two CORS stations. It is best if there are both two occupations on each point and each of the two utilize different base stations. A more convenient but less desirable approach is to do a second occupation almost immediately after the first. The roving receiver's antenna is blocked or tilted until the lock on the satellites is interrupted. It is then re-oriented on the unknown position a second time for the repeat solution. This does offer a second solution, but from virtually the same constellation. More efficiency can be achieved by adding additional roving receivers. However, as the number of receivers rises, the logistics become more complicated, and a survey plan becomes necessary. Also, project points that are

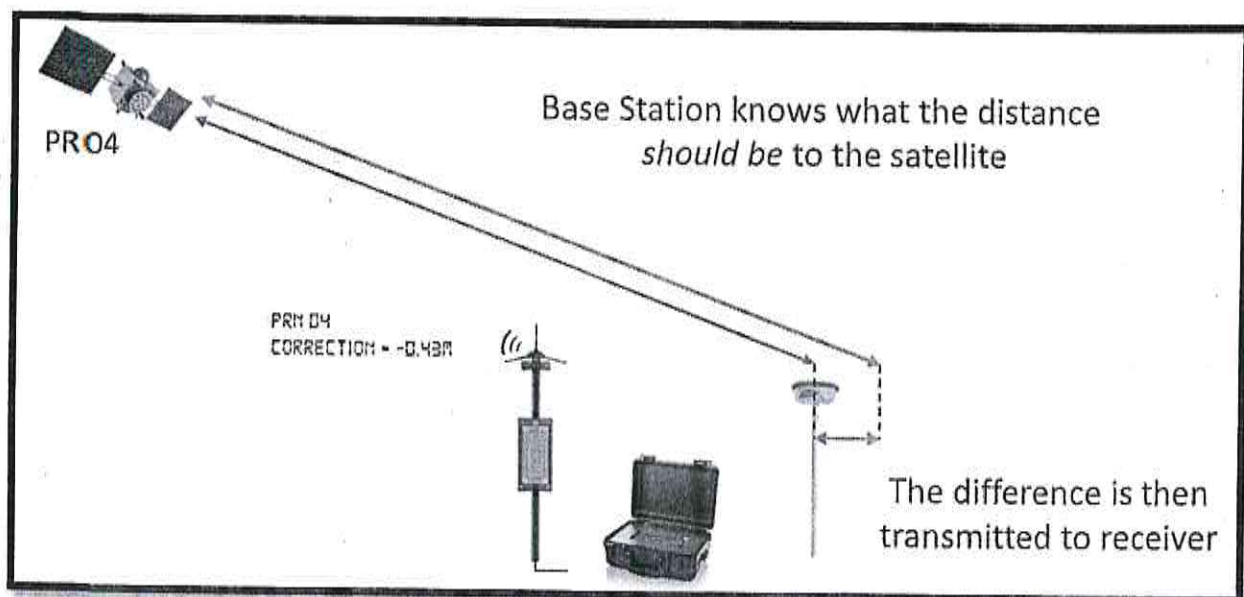


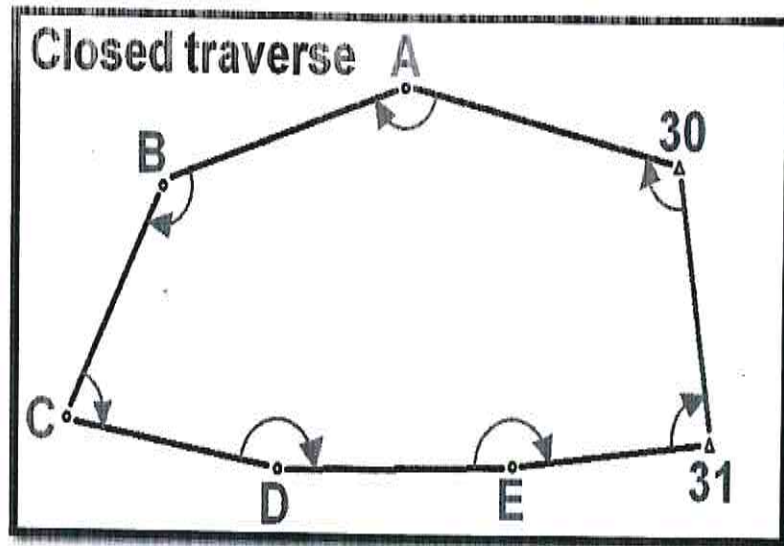
simultaneously near one another but far from the control station should be directly connected with a baseline to maintain the integrity of the survey. Finally, if the base receiver loses lock and it goes unnoticed, it will completely defeat the radial survey for the time it is down. These are a few possibilities to consider when you are doing a real-time survey. An advantage to continuously operating reference station network is that since those bases are operating simultaneously and all the time, it's possible to download the positions from more than one base and process your new position based on these continuously operating reference stations and have some redundancy

1. STATIC METHOD

I. Static Method:

DGPS (Differential GPS) is essentially a system to provide positional corrections to GPS signals. DGPS uses a fixed, known position to adjust real time GPS signals to eliminate pseudorange errors. An important point to note is that DGPS corrections improve the accuracy of position data only





3. INTRODUCTION TO SURVEY SITE

The surveyed area is located Kondagaon and it is almost 241 kilometers from Raipur and 70 kilometers from Jagdalpur city is the headquarter of Kondagaon district in the Indian state of Chhattisgarh. It is the third largest city of Bastar division. Kondagaon separated from Bastar district on 24 January 2012 and formed as 27th district of the Chhattisgarh state. It is mostly renowned for its bell metal craft and other art forms native to the tribal of Bastar. Also known as the Shilp sheher (lit. craft city) of Chhattisgarh owing to the variety of indigenous crafts produced in the area.

It falls in Survey of India Open Series Toposheet no. – E44D101, E44D111, E44D13, E44D141, E44D151 and E44E21. The surveyed area is bounded by Longitudes $81^{\circ} 47' 24.091''$ E to $81^{\circ} 53' 18.634''$ E & Latitudes $19^{\circ} 22' 42.289''$ N to $19^{\circ} 46' 5.084''$ N.

There are Name: 1. Ghoragaon to Kondagaon via Kondagaon to Makdi to Chattodi

Sub. Divisional Engineer,
B.S.N.L. Telecom Project,
Raipur 492001

SUMMARY

The total route is from Ghoragaon to Kondagaon via Kondagaon to Makdi to Chattodi is approx. 105.710 km with trench width of 45cm and average depth of 1.5 meters.

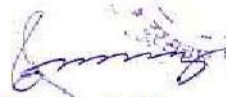
The proposed OFC length in Reserve/Orange/Revenue Land is of 48.46 km with total forest land diversion of 2.181 Ha.

AREA STATEMENT OF PROPOSED BSNL OFC LINE SOUTH KONDAGAON DIVISION

Route-Ghoragaon to Kondagaon via Kondagaon to Makdi to Chattodi							
Total Route Length	Total Forest Patch Length	Proposed OFC trench width	Total OA Forest Diversion	Total Protected Forest Diversion	Total Reserve Forest Diversion	Total Revenue Forest Diversion	Total Forest Diversion
(in KM)	(in KM)	(in M)	(Area in Ha)	(Area in Ha)	(Area in Ha)	(Area in Ha)	(Area in Ha)
105.710	48.460	0.045	0.106	0.370	1.557	0.148	2.181


Sub. Divisional Engineer,
B.S.N.L. Telecom Project,
Raipur 492001




Range Officer
Kondagaon


Range Officer
Amrawati


Sub Division Officer
East Kondagaon


S.D.O.
West Kondagaon


Divisional Forest Officer
South Kondagaon Division
Kondagaon


वन परिक्षेत्र अधिकारी
परिक्षेत्र मकड़ी


वन परिक्षेत्र अधिकारी
मुलमुला परिक्षेत्र


परिक्षेत्र अधिकारी
दहीकोंगा परिक्षेत्र

प्रस्तावित वन भूमि का कक्ष अनुसार विवरण

क्र.	जिला	प्रभावित वनमंडल का नाम	प्रभावित वनभूमि का प्रकार	वन कक्ष क्रमांक	प्रभावित परिक्षेत्र का नाम	लम्बाई (मी.)	चौड़ाई (मी.)	क्षेत्रफल (हे)
1	कोंडागांव	दक्षिण कोंडागांव	ऑरेंज एरिया	99 (657)	मांकड़ी	622	0.45	0.028
2	कोंडागांव	दक्षिण कोंडागांव	ऑरेंज एरिया	98 (656)	मांकड़ी	311	0.45	0.014
3	कोंडागांव	दक्षिण कोंडागांव	ऑरेंज एरिया	565 (930)	कोंडागांव	1422	0.45	0.064
					कुल (A)	2356		0.106

क्र.	जिला	प्रभावित वनमंडल का नाम	प्रभावित वनभूमि का प्रकार	वन कक्ष क्रमांक	प्रभावित परिक्षेत्र का नाम	लम्बाई (मी.)	चौड़ाई (मी.)	क्षेत्रफल (हे)
4	कोंडागांव	दक्षिण कोंडागांव	स. व.	344	मुलमुला	911	0.45	0.041
5	कोंडागांव	दक्षिण कोंडागांव	स. व.	101	मांकड़ी	378	0.45	0.017
6	कोंडागांव	दक्षिण कोंडागांव	स. व.	102	मांकड़ी	444	0.45	0.020
7	कोंडागांव	दक्षिण कोंडागांव	स. व.	404	अमरावती	978	0.45	0.044
8	कोंडागांव	दक्षिण कोंडागांव	स. व.	410	अमरावती	1222	0.45	0.055
9	कोंडागांव	दक्षिण कोंडागांव	स. व.	418	अमरावती	800	0.45	0.036
10	कोंडागांव	दक्षिण कोंडागांव	स. व.	453	दहोकोगा	511	0.45	0.023
11	कोंडागांव	दक्षिण कोंडागांव	स. व.	519	दहोकोगा	489	0.45	0.022
12	कोंडागांव	दक्षिण कोंडागांव	स. व.	521	दहोकोगा	822	0.45	0.037
13	कोंडागांव	दक्षिण कोंडागांव	स. व.	524	कोंडागांव	556	0.45	0.025
14	कोंडागांव	दक्षिण कोंडागांव	स. व.	448	कोंडागांव	200	0.45	0.009
15	कोंडागांव	दक्षिण कोंडागांव	स. व.	448	कोंडागांव	356	0.45	0.016
16	कोंडागांव	दक्षिण कोंडागांव	स. व.	449	कोंडागांव	556	0.45	0.025
					कुल (B)	8222		0.370


 Sub. Divisional Engineer,
 B.S.N.L. Telecom Project,
 Raipur 492001

क्र.	जिला	प्रभावित वनमंडल का नाम	प्रभावित वनभूमि का प्रकार	वन कक्ष क्रमांक	प्रभावित परिक्षेत्र का नाम	लम्बाई (मी.)	चौड़ाई (मी.)	क्षेत्रफल (हे)
17	कोंडागांव	दक्षिण कोंडागांव	आ. व.	151	मांकड़ी	1622	0.45	0.073
18	कोंडागांव	दक्षिण कोंडागांव	आ. व.	152	मांकड़ी	2000	0.45	0.090
19	कोंडागांव	दक्षिण कोंडागांव	आ. व.	221	अमरावती	2600	0.45	0.117
20	कोंडागांव	दक्षिण कोंडागांव	आ. व.	222	अमरावती	1311	0.45	0.059
21	कोंडागांव	दक्षिण कोंडागांव	आ. व.	106	मांकड़ी	1200	0.45	0.054
22	कोंडागांव	दक्षिण कोंडागांव	आ. व.	118	मांकड़ी	956	0.45	0.043
23	कोंडागांव	दक्षिण कोंडागांव	आ. व.	163	मांकड़ी	711	0.45	0.032
24	कोंडागांव	दक्षिण कोंडागांव	आ. व.	162	मांकड़ी	2711	0.45	0.122
25	कोंडागांव	दक्षिण कोंडागांव	आ. व.	166	अमरावती	1778	0.45	0.080
26	कोंडागांव	दक्षिण कोंडागांव	आ. व.	278	अमरावती	1756	0.45	0.079
27	कोंडागांव	दक्षिण कोंडागांव	आ. व.	270	अमरावती	1289	0.45	0.058
28	कोंडागांव	दक्षिण कोंडागांव	आ. व.	272	अमरावती	1156	0.45	0.052
29	कोंडागांव	दक्षिण कोंडागांव	आ. व.	266	अमरावती	1044	0.45	0.047
30	कोंडागांव	दक्षिण कोंडागांव	आ. व.	268	अमरावती	289	0.45	0.013
31	कोंडागांव	दक्षिण कोंडागांव	आ. व.	265	अमरावती	800	0.45	0.036
32	कोंडागांव	दक्षिण कोंडागांव	आ. व.	261	अमरावती	2222	0.45	0.100
33	कोंडागांव	दक्षिण कोंडागांव	आ. व.	259	अमरावती	578	0.45	0.026
34	कोंडागांव	दक्षिण कोंडागांव	आ. व.	260	अमरावती	111	0.45	0.005
35	कोंडागांव	दक्षिण कोंडागांव	आ. व.	259	अमरावती	22	0.45	0.001
36	कोंडागांव	दक्षिण कोंडागांव	आ. व.	246	अमरावती	2000	0.45	0.090
37	कोंडागांव	दक्षिण कोंडागांव	आ. व.	247	अमरावती	1000	0.45	0.045
38	कोंडागांव	दक्षिण कोंडागांव	आ. व.	259	अमरावती	778	0.45	0.035
39	कोंडागांव	दक्षिण कोंडागांव	आ. व.	223	अमरावती	67	0.45	0.003
40	कोंडागांव	दक्षिण कोंडागांव	आ. व.	566	कोंडागांव	2533	0.45	0.114
41	कोंडागांव	दक्षिण कोंडागांव	आ. व.	568	कोंडागांव	1289	0.45	0.058
42	कोंडागांव	दक्षिण कोंडागांव	आ. व.	567	कोंडागांव	978	0.45	0.044
43	कोंडागांव	दक्षिण कोंडागांव	आ. व.	569	कोंडागांव	1022	0.45	0.046
44	कोंडागांव	दक्षिण कोंडागांव	आ. व.	569	कोंडागांव	778	0.45	0.035
					कुल (C)	55756		1.557
TOTAL A+B+C								1.927

रेवेन्यू वन क्षेत्र विवरण								
क्र.	जिला	तहसील	खसरा क्रमांक	परिक्षेत्र	ग्राम	लम्बाई (मी.)	चौड़ाई (मी.)	क्षेत्रफल (हे)
1	कोंडागांव	दक्षिण कोंडागांव	325/1	कोंडागांव	कोंडागांव	156	0.45	0.007
2	कोंडागांव	दक्षिण कोंडागांव	95	कोंडागांव	भानपुरी	67	0.45	0.003
3	कोंडागांव	दक्षिण कोंडागांव	93	कोंडागांव	भानपुरी	222	0.45	0.010
4	कोंडागांव	दक्षिण कोंडागांव	44	कोंडागांव	भानपुरी	44	0.45	0.002
5	कोंडागांव	दक्षिण कोंडागांव	38	कोंडागांव	भानपुरी	67	0.45	0.003
6	कोंडागांव	दक्षिण कोंडागांव	38	कोंडागांव	भानपुरी	178	0.45	0.008
7	कोंडागांव	दक्षिण कोंडागांव	43	कोंडागांव	भानपुरी	89	0.45	0.004
8	कोंडागांव	दक्षिण कोंडागांव	49	कोंडागांव	भानपुरी	89	0.45	0.004
9	कोंडागांव	दक्षिण कोंडागांव	100	कोंडागांव	भानपुरी	111	0.45	0.005
10	कोंडागांव	दक्षिण कोंडागांव	46	कोंडागांव	भानपुरी	67	0.45	0.003
11	कोंडागांव	दक्षिण कोंडागांव	47	कोंडागांव	भानपुरी	67	0.45	0.003
12	कोंडागांव	दक्षिण कोंडागांव	48	कोंडागांव	भानपुरी	44	0.45	0.002
13	कोंडागांव	दक्षिण कोंडागांव	48	कोंडागांव	भानपुरी	89	0.45	0.004
14	कोंडागांव	दक्षिण कोंडागांव	40	कोंडागांव	भानपुरी	22	0.45	0.001
15	कोंडागांव	दक्षिण कोंडागांव	45	कोंडागांव	भानपुरी	0	0.45	0.000
16	कोंडागांव	दक्षिण कोंडागांव	1/24	कोंडागांव	चिकलपुटी	178	0.45	0.008
17	कोंडागांव	दक्षिण कोंडागांव	1/20	कोंडागांव	चिकलपुटी	222	0.45	0.010
18	कोंडागांव	दक्षिण कोंडागांव	2/1 क	कोंडागांव	दहोकागा	111	0.45	0.005
19	कोंडागांव	दक्षिण कोंडागांव	2/1 क	कोंडागांव	दहोकागा	44	0.45	0.002
20	कोंडागांव	दक्षिण कोंडागांव	6/1,9,12,14	कोंडागांव	दुधगांव	667	0.45	0.030
21	कोंडागांव	दक्षिण कोंडागांव	3/1	कोंडागांव	दुधगांव	200	0.45	0.009
22	कोंडागांव	दक्षिण कोंडागांव	271	कोंडागांव	घोडागांव	133	0.45	0.006
23	कोंडागांव	दक्षिण कोंडागांव	277	कोंडागांव	घोडागांव	0	0.45	0.000
24	कोंडागांव	दक्षिण कोंडागांव	325/1	कोंडागांव	घोडागांव	422	0.45	0.019
					कुल	3289		0.148


 Sub. Divisional Engineer,
 B.S.N.L. Telecom Project,
 Raipur 492001

5. CONTROL POINTS

PRIMARY CONTROL POINT (FIXING OF BASE STATION POINTS)

Sl_No.	Location_Name	Latitude	Longitude
1	Newara	19° 32' 14.934" N	82° 1' 56.948" E
2	Bijapur	19° 36' 28.761" N	81° 56' 24.261" E
3	Karandi	19° 39' 45.731" N	81° 55' 52.450" E
4	Belgaon	19° 42' 36.073" N	81° 55' 17.051" E
5	Makadi	19° 45' 28.136" N	81° 54' 4.432" E
6	Maragaon	19° 43' 29.096" N	81° 47' 48.950" E
7	Chilputi	19° 37' 59.775" N	81° 42' 5.998" E
8	Chikhalputi	19° 33' 45.306" N	81° 40' 30.963" E
9	Baniyagaon	19° 31' 37.526" N	81° 41' 20.787" E
10	Usari	19° 26' 0.606" N	81° 45' 31.994" E
11	Ghodagaon	19° 22' 43.708" N	81° 47' 23.231" E

6. SURVEY DATA & PHOTOGRAPH

SURVEY POINTS KHASRA 2/1KA



S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	KA 2/1_1_PT	81° 42' 43.207" E	19° 28' 43.190" N	Khasra No. 2/1
1	KA 2/1_2_PT	81° 42' 44.550" E	19° 28' 42.931" N	Khasra No. 2/1
1	KA 2/1_3_PT	81° 42' 53.064" E	19° 28' 32.390" N	Khasra No. 2/1
1	KA 2/1_4_PT	81° 42' 55.076" E	19° 28' 29.626" N	Khasra No. 2/1

SURVEY POINTS KHASRA 271

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	271_1_PT	81° 47' 19.334" E	19° 22' 47.003" N	Khasra No. 271
2	271_2_PT	81° 47' 19.781" E	19° 22' 46.135" N	Khasra No.271
3	271_3_PT	81° 47' 20.768" E	19° 22' 44.731" N	Khasra No. 271
4	271_4_PT	81° 47' 21.599" E	19° 22' 43.709" N	Khasra No. 271

SURVEY POINTS KHASRA 277

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	277_1_PT	81° 47' 24.058" E	19° 22' 40.278" N	Khasra No. 277
2	277_2_PT	81° 47' 24.115" E	19° 22' 40.188" N	Khasra No. 277

SURVEY POINTS KHASRA 325/1

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	325/1_1_PT	81° 47' 24.598" E	19° 22' 39.936" N	Khasra No. 325/1
2	325/1_2_PT	81° 47' 25.454" E	19° 22' 38.888" N	Khasra No. 325/1
3	325/1_3_PT	81° 47' 25.922" E	19° 22' 38.316" N	Khasra No. 325/1
4	325/1_4_PT	81° 47' 26.221" E	19° 22' 37.952" N	Khasra No. 325/1
5	325/1_5_PT	81° 47' 27.654" E	19° 22' 36.228" N	Khasra No. 325/1



SURVEY POINTS KHASRA 38

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	38_1_PT	81° 47' 55.518" E	19° 22' 4.303" N	Khasra No. 38
2	38_1_PT	81° 48' 2.322" E	19° 21' 57.618" N	Khasra No. 38
3	38_2_PT	81° 47' 59.881" E	19° 21' 59.947" N	Khasra No. 38
4	38_2_PT	81° 48' 3.704" E	19° 21' 56.200" N	Khasra No. 38

SURVEY POINTS KHASRA 40

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	40_1_PT	81° 47' 59.881" E	19° 21' 59.947" N	Khasra No. 40
2	40_2_PT	81° 48' 0.162" E	19° 21' 59.681" N	Khasra No. 40

SURVEY POINTS KHASRA 43

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	43_1_PT	81° 47' 59.881" E	19° 21' 59.947" N	Khasra No. 43
2	43_1_PT	81° 48' 2.322" E	19° 21' 57.618" N	Khasra No. 43

SURVEY POINTS KHASRA 44

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	44_1_PT	81° 48' 3.704" E	19° 21' 56.200" N	Khasra No. 44
2	44_2_PT	81° 48' 4.493" E	19° 21' 55.397" N	Khasra No. 44



SURVEY POINTS KHASRA 45

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	45_2_PT	81° 48' 4.659" E	19° 21' 55.206" N	Khasra No. 45
2	45_1_PT	81° 48' 4.493" E	19° 21' 55.397" N	Khasra No. 45

SURVEY POINTS KHASRA 46

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	46_1_PT	81° 48' 4.493" E	19° 21' 55.397" N	Khasra No. 46
2	46_2_PT	81° 48' 6.232" E	19° 21' 53.305" N	Khasra No. 46

SURVEY POINTS KHASRA 47

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	47_1_PT	81° 48' 6.232" E	19° 21' 53.305" N	Khasra No. 47
2	47_2_PT	81° 48' 7.693" E	19° 21' 51.512" N	Khasra No. 47

SURVEY POINTS KHASRA 48

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	48_1_PT	81° 48' 12.373" E	19° 21' 46.148" N	Khasra No. 48
2	48_2_PT	81° 48' 11.203" E	19° 21' 47.495" N	Khasra No. 48
3	48_3_PT	81° 48' 9.475" E	19° 21' 49.457" N	Khasra No. 48
4	48_4_PT	81° 48' 12.373" E	19° 21' 51.512" N	Khasra No. 48



SURVEY POINTS KHASRA 49

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	49_1_PT	81° 48' 11.203" E	19° 21' 47.495" N	Khasra No. 49
2	49_1_PT	81° 48' 9.475" E	19° 21' 49.457" N	Khasra No. 49

SURVEY POINTS KHASRA 93

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	93_1_PT	81° 48' 12.373" E	19° 21' 46.148" N	Khasra No. 93
2	93_2_PT	81° 48' 15.114" E	19° 21' 42.771" N	Khasra No. 93
3	93_3_PT	81° 48' 16.790" E	19° 21' 40.648" N	Khasra No. 93

SURVEY POINTS KHASRA 95

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	95_1_PT	81° 48' 16.790" E	19° 21' 40.648" N	Khasra No. 95
2	95_2_PT	81° 48' 18.097" E	19° 21' 39.305" N	Khasra No. 95

SURVEY POINTS KHASRA 100

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	100_1_PT	81° 48' 18.097" E	19° 21' 39.305" N	Khasra No. 100
2	100_2_PT	81° 48' 20.632" E	19° 21' 36.623" N	Khasra No. 100



SURVEY POINTS KHASRA 1/20

.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	1/20_1_PT	81° 40' 29.897" E	19° 33' 45.381" N	Khasra No. 1/20
2	1/20_2_PT	81° 40' 30.714" E	19° 33' 43.976" N	Khasra No. 1/20
3	1/20_3_PT	81° 40' 31.206" E	19° 33' 42.986" N	Khasra No. 1/20
4	1/20_4_PT	81° 40' 32.873" E	19° 33' 39.479" N	Khasra No. 1/20
5	1/20_5_PT	81° 40' 33.151" E	19° 33' 39.020" N	Khasra No. 1/20

SURVEY POINTS KHASRA 1/24

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	1/24_1_PT	81° 40' 55.583" E	19° 32' 55.374" N	Khasra No. 1/24
2	1/24_2_PT	81° 40' 56.372" E	19° 32' 52.593" N	Khasra No. 1/24
3	1/24_3_PT	81° 40' 56.834" E	19° 32' 51.423" N	Khasra No. 1/24

SURVEY POINTS KHASRA 3/1

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	3/1_1_PT	81° 40' 57.256" E	19° 32' 50.042" N	Khasra No. 3/1
2	3/1_2_PT	81° 40' 58.368" E	19° 32' 45.492" N	Khasra No. 3/1



SURVEY POINTS KHASRA 6/1,9,12,14,17,18, 19,20,22,25/1

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	6/1,9,12,14_1_PT	81° 41' 1.410" E	19° 32' 37.231" N	Khasra No. 6/1,9,12,14,17,18, 19,20,22,25/1
2	6/1,9,12,14_2_PT	81° 41' 3.442" E	19° 32' 31.063" N	Khasra No. 6/1,9,12,14,17,18, 19,20,22,25/1
2	6/1,9,12,14_3_PT	81° 41' 4.479" E	19° 32' 27.658" N	Khasra No. 6/1,9,12,14,17,18, 19,20,22,25/1
4	6/1,9,12,14_4_PT	81° 41' 4.699" E	19° 32' 27.269" N	Khasra No. 6/1,9,12,14,17,18, 19,20,22,25/1
5	6/1,9,12,14_5_PT	81° 41' 5.344" E	19° 32' 25.751" N	Khasra No. 6/1,9,12,14,17,18, 19,20,22,25/1
6	6/1,9,12,14_6_PT	81° 41' 5.439" E	19° 32' 25.462" N	Khasra No. 6/1,9,12,14,17,18, 19,20,22,25/1
7	6/1,9,12,14_7_PT	81° 41' 5.787" E	19° 32' 23.880" N	Khasra No. 6/1,9,12,14,17,18, 19,20,22,25/1
8	6/1,9,12,14_8_PT	81° 41' 6.790" E	19° 32' 20.994" N	Khasra No. 6/1,9,12,14,17,18, 19,20,22,25/1
9	6/1,9,12,14_9_PT	81° 41' 7.158" E	19° 32' 20.228" N	Khasra No. 6/1,9,12,14,17,18, 19,20,22,25/1
10	6/1,9,12,14_10_PT	81° 41' 7.243" E	19° 32' 19.780" N	Khasra No. 6/1,9,12,14,17,18, 19,20,22,25/1
11	6/1,9,12,14_11_PT	81° 41' 8.162" E	19° 32' 17.177" N	Khasra No. 6/1,9,12,14,17,18, 19,20,22,25/1



SURVEY POINTS COMPARTMENT: RF: 151

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	151_1_PT	81° 53' 18.634" E	19° 46' 5.084" N	RF 151
2	151_2_PT	81° 53' 12.895" E	19° 46' 2.448" N	RF 151
3	151_3_PT	81° 53' 5.488" E	19° 46' 0.456" N	RF 151
4	151_4_PT	81° 52' 57.397" E	19° 45' 59.398" N	RF 151
5	151_5_PT	81° 52' 51.290" E	19° 45' 54.816" N	RF 151
6	151_6_PT	81° 52' 45.200" E	19° 45' 50.788" N	RF 151
7	151_7_PT	81° 52' 38.458" E	19° 45' 49.152" N	RF 151
8	151_8_PT	81° 52' 27.219" E	19° 45' 48.371" N	RF 151

SURVEY POINTS COMPARTMENT: RF: 152

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	152_1_PT	81° 54' 24.386" E	19° 44' 47.731" N	RF 152
2	152_2_PT	81° 54' 20.545" E	19° 44' 53.150" N	RF 152
3	152_3_PT	81° 54' 18.138" E	19° 44' 58.338" N	RF 152
4	152_4_PT	81° 54' 16.324" E	19° 45' 6.476" N	RF 152
5	152_5_PT	81° 54' 15.886" E	19° 45' 11.313" N	RF 152
6	152_6_PT	81° 54' 12.095" E	19° 45' 17.809" N	RF 152
7	152_7_PT	81° 54' 4.432" E	19° 45' 28.136" N	RF 152
8	152_8_PT	81° 53' 58.305" E	19° 45' 36.316" N	RF 152
9	152_9_PT	81° 53' 53.775" E	19° 45' 44.230" N	RF 152



SURVEY POINTS COMPARTMENT: RF: 118

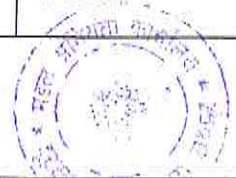
S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	118_1_PT	81° 54' 39.967" E	19° 44' 20.514" N	RF 118
2	118_2_PT	81° 54' 35.058" E	19° 44' 31.919" N	RF 118
3	118_3_PT	81° 54' 28.051" E	19° 44' 42.159" N	RF 118

SURVEY POINTS COMPARTMENT: RF: 162

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	162_1_PT	81° 55' 31.676" E	19° 41' 54.043" N	RF 162
2	162_2_PT	81° 55' 28.656" E	19° 41' 55.999" N	RF 162
3	162_3_PT	81° 55' 25.983" E	19° 42' 5.071" N	RF 162
4	162_4_PT	81° 55' 21.566" E	19° 42' 21.453" N	RF 162
5	162_5_PT	81° 55' 17.051" E	19° 42' 36.073" N	RF 162
6	162_6_PT	81° 55' 10.395" E	19° 42' 58.559" N	RF 162
7	162_7_PT	81° 55' 6.743" E	19° 43' 9.755" N	RF 162
8	162_8_PT	81° 55' 0.071" E	19° 43' 31.720" N	RF 162

SURVEY POINTS COMPARTMENT: RF: 221

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	221_1_PT	82° 1' 47.905" E	19° 31' 51.431" N	RF 221
2	221_2_PT	82° 1' 45.741" E	19° 32' 3.216" N	RF 221
3	221_3_PT	82° 1' 50.374" E	19° 32' 6.716" N	RF 221
4	221_5_PT	82° 1' 54.303" E	19° 32' 20.789" N	RF 221
5	221_7_PT	82° 1' 35.215" E	19° 32' 20.017" N	RF 221
6	221_8_PT	82° 1' 21.392" E	19° 32' 20.656" N	RF 221



SURVEY POINTS COMPARTMENT: RF: 222

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	222_1_PT	82° 1' 37.724" E	19° 30' 55.600" N	RF 222
2	222_2_PT	82° 1' 49.080" E	19° 31' 18.406" N	RF 222
3	222_3_PT	82° 1' 51.601" E	19° 31' 34.775" N	RF 222

SURVEY POINTS COMPARTMENT: RF: 223

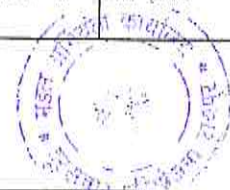
S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	223_1_PT	82° 1' 37.435" E	19° 30' 43.883" N	RF 223
2	223_2_PT	82° 1' 36.581" E	19° 30' 45.726" N	RF 223

SURVEY POINTS COMPARTMENT: PF: 475

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	475_1_PT	81° 59' 52.383" E	19° 33' 30.893" N	PF 475
2	475_2_PT	81° 59' 37.851" E	19° 33' 35.083" N	PF 475
3	475_3_PT	81° 59' 24.390" E	19° 33' 36.388" N	PF 475

SURVEY POINTS COMPARTMENT: RF: 246

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	246_1_PT	81° 59' 17.457" E	19° 33' 35.416" N	RF 246
2	246_2_PT	81° 59' 12.005" E	19° 33' 42.270" N	RF 246
3	246_3_PT	81° 59' 10.642" E	19° 33' 46.706" N	RF 246
4	246_4_PT	81° 59' 9.074" E	19° 33' 53.609" N	RF 246
5	246_5_PT	81° 59' 3.118" E	19° 34' 3.520" N	RF 246



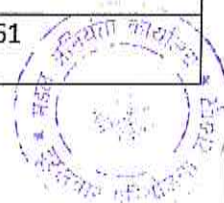
6	246_6_PT	81° 59' 0.750" E	19° 34' 8.719" N	RF 246
7	246_7_PT	81° 58' 58.966" E	19° 34' 13.816" N	RF 246
8	246_8_PT	81° 58' 57.489" E	19° 34' 18.109" N	RF 246
9	246_9_PT	81° 58' 56.274" E	19° 34' 23.751" N	RF 246
10	246_10_PT	81° 58' 55.993" E	19° 34' 27.462" N	RF 246
11	246_11_PT	81° 58' 54.559" E	19° 34' 31.970" N	RF 246

SURVEY POINTS COMPARTMENT: RF: 259

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	259_1_PT	81° 57' 17.300" E	19° 36' 44.272" N	RF 259
2	259_2_PT	81° 57' 9.638" E	19° 36' 41.620" N	RF 259
3	259_3_PT	81° 57' 0.652" E	19° 36' 38.938" N	RF 259
4	259_4_PT	81° 56' 53.860" E	19° 36' 36.924" N	RF 259
5	259_5_PT	81° 56' 44.446" E	19° 36' 34.443" N	RF 259

SURVEY POINTS COMPARTMENT: RF: 261

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	261_1_PT	81° 56' 29.425" E	19° 36' 30.893" N	RF 261
2	261_2_PT	81° 56' 24.261" E	19° 36' 28.761" N	RF 261
3	261_3_PT	81° 56' 25.651" E	19° 36' 33.218" N	RF 261
4	261_4_PT	81° 56' 27.161" E	19° 36' 38.689" N	RF 261
5	261_5_PT	81° 56' 26.710" E	19° 36' 42.337" N	RF 261
6	261_6_PT	81° 56' 22.482" E	19° 36' 50.500" N	RF 261
7	261_7_PT	81° 56' 22.415" E	19° 36' 59.441" N	RF 261
8	261_8_PT	81° 56' 21.668" E	19° 37' 12.200" N	RF 261
9	261_9_PT	81° 56' 21.078" E	19° 37' 26.598" N	RF 261



SURVEY POINTS COMPARTMENT: RF: 265

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	265_1_PT	81° 56' 19.324" E	19° 37' 41.264" N	RF265
2	265_2_PT	81° 56' 20.930" E	19° 37' 59.894" N	RF 265

SURVEY POINTS COMPARTMENT: RF: 266

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	266_1_PT	81° 56' 21.752" E	19° 38' 9.294" N	RF 266
2	266_2_PT	81° 56' 22.532" E	19° 38' 18.675" N	RF 266

SURVEY POINTS COMPARTMENT: RF: 270

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	270_1_PT	81° 56' 24.622" E	19° 38' 44.998" N	RF 270
2	270_2_PT	81° 56' 19.753" E	19° 38' 58.930" N	RF 270
3	270_3_PT	81° 56' 11.502" E	19° 39' 13.132" N	RF 270

SURVEY POINTS COMPARTMENT: RF: 272

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	272_1_PT	81° 56' 4.384" E	19° 39' 25.171" N	RF 272
2	272_2_PT	81° 55' 52.450" E	19° 39' 45.731" N	RF 272
3	272_3_PT	81° 55' 53.045" E	19° 39' 54.946" N	RF 272



SURVEY POINTS COMPARTMENT: RF: 166

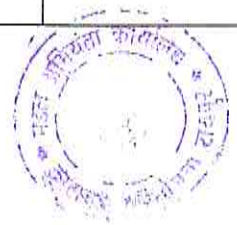
S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	166_1_PT	81° 55' 49.586" E	19° 40' 51.552" N	RF 166
2	166_2_PT	81° 55' 46.678" E	19° 41' 7.928" N	RF 166
3	166_3_PT	81° 55' 40.649" E	19° 41' 19.335" N	RF 166
4	166_4_PT	81° 55' 36.987" E	19° 41' 27.054" N	RF 166
5	166_5_PT	81° 55' 34.926" E	19° 41' 34.924" N	RF 166
6	166_6_PT	81° 55' 32.422" E	19° 41' 46.474" N	RF 166

SURVEY POINTS COMPARTMENT: RF: 278

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	278_1_PT	81° 55' 54.155" E	19° 40' 10.966" N	RF 278
2	278_2_PT	81° 55' 52.081" E	19° 40' 35.947" N	RF 278

SURVEY POINTS COMPARTMENT: RF: 106

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	106_1_PT	81° 48' 8.285" E	19° 43' 28.798" N	RF 106
2	106_2_PT	81° 47' 59.570" E	19° 43' 28.980" N	RF 106
3	106_3_PT	81° 47' 48.950" E	19° 43' 29.096" N	RF 106
4	106_4_PT	81° 47' 37.630" E	19° 43' 27.778" N	RF 106



SURVEY POINTS COMPARTMENT: PF: 418

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	418_1_PT	82° 1' 5.793" E	19° 32' 26.368" N	PF 418
2	418_2_PT	82° 1' 4.883" E	19° 32' 34.657" N	PF 418
3	418_3_PT	82° 0' 57.471" E	19° 32' 36.697" N	PF 418
4	418_4_PT	82° 0' 51.421" E	19° 32' 44.518" N	PF 418

SURVEY POINTS COMPARTMENT: PF: 410

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	410_1_PT	82° 0' 24.867" E	19° 33' 5.183" N	PF 410
2	410_2_PT	82° 0' 17.011" E	19° 33' 12.838" N	PF 410
3	410_3_PT	82° 0' 9.214" E	19° 33' 21.701" N	PF 410
4	410_4_PT	81° 59' 59.317" E	19° 33' 28.733" N	PF 410

SURVEY POINTS COMPARTMENT: PF: 404

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	404_1_PT	81° 58' 6.229" E	19° 35' 59.299" N	PF 404
2	404_2_PT	81° 58' 5.503" E	19° 36' 2.241" N	PF 404
3	404_3_PT	81° 58' 7.065" E	19° 36' 8.951" N	PF 404
4	404_4_PT	81° 58' 6.158" E	19° 36' 14.886" N	PF 404
5	404_5_PT	81° 58' 6.193" E	19° 36' 22.706" N	PF 404
6	404_6_PT	81° 58' 3.924" E	19° 36' 30.029" N	PF 404



SURVEY POINTS COMPARTMENT: OA: 98

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	98_1_PT	81° 49' 53.428" E	19° 44' 13.216" N	OA 98
2	98_2_PT	81° 49' 50.172" E	19° 44' 9.817" N	OA 98
3	98_3_PT	81° 49' 45.726" E	19° 44' 6.547" N	OA 98

SURVEY POINTS COMPARTMENT: OA: 99

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	99_1_PT	81° 50' 10.571" E	19° 44' 35.712" N	OA 99
2	99_2_PT	81° 50' 7.814" E	19° 44' 31.853" N	OA 99
3	99_3_PT	81° 50' 3.960" E	19° 44' 25.542" N	OA 99
4	99_4_PT	81° 49' 58.743" E	19° 44' 19.242" N	OA 99

SURVEY POINTS COMPARTMENT: PF: 101

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	101_1_PT	81° 48' 21.589" E	19° 43' 28.417" N	PF 101
2	101_2_PT	81° 48' 17.284" E	19° 43' 28.470" N	PF 101

SURVEY POINTS COMPARTMENT: PF: 102

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	102_1_PT	81° 47' 27.743" E	19° 43' 24.973" N	PF 102
2	102_2_PT	81° 47' 21.532" E	19° 43' 22.596" N	PF 102
3	102_3_PT	81° 47' 17.711" E	19° 43' 20.822" N	PF 102
4	102_4_PT	81° 47' 13.583" E	19° 43' 19.312" N	PF 102



SURVEY POINTS COMPARTMENT: PF: 344

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	344_1_PT	81° 42' 11.921" E	19° 38' 13.975" N	PF 344
2	344_2_PT	81° 42' 8.816" E	19° 38' 6.310" N	PF 344
3	344_3_PT	81° 42' 5.998" E	19° 37' 59.775" N	PF 344
4	344_4_PT	81° 42' 3.455" E	19° 37' 53.951" N	PF 344
5	344_5_PT	81° 42' 0.172" E	19° 37' 46.224" N	PF 344

SURVEY POINTS COMPARTMENT: PF: 519

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	519_1_PT	81° 47' 10.907" E	19° 23' 1.608" N	PF 519
2	519_2_PT	81° 47' 13.619" E	19° 22' 57.035" N	PF 519
3	519_3_PT	81° 47' 15.783" E	19° 22' 53.399" N	PF 519
4	519_4_PT	81° 47' 17.925" E	19° 22' 49.709" N	PF 519
5	519_5_PT	81° 47' 19.025" E	19° 22' 47.844" N	PF 519

SURVEY POINTS COMPARTMENT: PF: 521

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	521_1_PT	81° 47' 27.654" E	19° 22' 36.228" N	PF 521
2	521_1_PT_2	81° 47' 36.872" E	19° 22' 25.865" N	PF 521
3	521_3_PT	81° 47' 47.362" E	19° 22' 13.859" N	PF 521
4	521_4_PT	81° 47' 55.230" E	19° 22' 5.110" N	PF 521



SURVEY POINTS COMPARTMENT: PF: 524

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	524_1_PT	81° 48' 33.721" E	19° 21' 21.078" N	PF 524
2	524_2_PT	81° 48' 28.103" E	19° 21' 27.543" N	PF 524
3	524_3_PT	81° 48' 21.586" E	19° 21' 34.837" N	PF 524

SURVEY POINTS COMPARTMENT: PF: 453

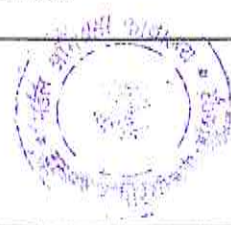
S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	453_1_PT	81° 41' 15.850" E	19° 31' 53.387" N	PF 453
2	453_2_PT	81° 41' 17.817" E	19° 31' 46.743" N	PF 453
3	453_3_PT	81° 41' 20.787" E	19° 31' 37.526" N	PF 453

SURVEY POINTS COMPARTMENT: PF: 773

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	773_1_PT	81° 40' 18.890" E	19° 34' 4.109" N	PF 773
2	773_2_PT	81° 40' 59.096" E	19° 32' 43.891" N	PF 773
3	773_3_PT	81° 40' 21.921" E	19° 33' 59.030" N	PF 773
4	773_4_PT	81° 41' 1.010" E	19° 32' 38.009" N	PF 773
5	773_5_PT	81° 40' 24.912" E	19° 33' 53.986" N	PF 773

SURVEY POINTS COMPARTMENT: PF: 448

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	448_1_PT	81° 39' 55.927" E	19° 34' 42.578" N	PF 448
2	448_2_PT	81° 39' 59.271" E	19° 34' 36.836" N	PF 448
3	448_3_PT	81° 40' 2.656" E	19° 34' 32.145" N	PF 448
4	448_4_PT	81° 40' 5.979" E	19° 34' 27.539" N	PF 448



SURVEY POINTS COMPARTMENT: OA: 565

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	565_1_PT	81° 43' 30.576" E	19° 28' 3.180" N	OA 565
2	565_2_PT	81° 43' 44.715" E	19° 27' 51.279" N	OA 565
3	565_3_PT	81° 44' 3.093" E	19° 27' 36.297" N	OA 565
4	565_4_PT	81° 44' 7.930" E	19° 27' 33.451" N	OA 565

SURVEY POINTS COMPARTMENT: RF: 566

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	566_1_PT	81° 44' 17.779" E	19° 27' 25.949" N	RF 566
2	566_2_PT	81° 44' 34.920" E	19° 27' 12.487" N	RF 566
3	566_3_PT	81° 45' 12.770" E	19° 26' 42.589" N	RF 566
4	566_4_PT	81° 45' 17.834" E	19° 26' 29.281" N	RF 566

SURVEY POINTS COMPARTMENT: RF: 567

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	567_1_PT	81° 45' 29.819" E	19° 26' 3.826" N	RF 567
2	567_2_PT	81° 45' 35.899" E	19° 25' 48.386" N	RF 567
3	567_3_PT	81° 45' 40.449" E	19° 25' 33.442" N	RF 567

SURVEY POINTS COMPARTMENT: RF: 568

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	568_1_PT	81° 45' 44.055" E	19° 25' 21.379" N	RF 568
2	568_2_PT	81° 45' 48.673" E	19° 25' 5.894" N	RF 568
3	568_3_PT	81° 45' 52.467" E	19° 24' 53.026" N	RF 568



SURVEY POINTS COMPARTMENT: RF: 569

S.No.	PILLAR ID	LONGITUDE	LATTITUDE	Comp/Khasra No.
1	569_1_PT	81° 46' 10.578" E	19° 24' 16.751" N	RF 569
2	569_2_PT	81° 46' 11.933" E	19° 24' 14.363" N	RF 569
3	569_3_PT	81° 46' 14.351" E	19° 24' 11.856" N	RF 569
4	569_4_PT	81° 46' 19.549" E	19° 24' 9.385" N	RF 569
5	569_5_PT	81° 46' 22.354" E	19° 24' 8.018" N	RF 569
6	569_6_PT	81° 46' 27.385" E	19° 24' 7.236" N	RF 569
7	569_7_PT	81° 46' 29.494" E	19° 24' 7.034" N	RF 569
8	569_8_PT	81° 46' 31.407" E	19° 24' 6.139" N	RF 569
9	569_9_PT	81° 46' 32.750" E	19° 24' 5.281" N	RF 569
10	569_10_PT	81° 46' 39.355" E	19° 23' 59.477" N	RF 569
11	569_11_PT	81° 46' 43.736" E	19° 23' 51.698" N	RF 569
12	569_12_PT	81° 46' 47.349" E	19° 23' 44.993" N	RF 569
13	569_13_PT	81° 46' 50.139" E	19° 23' 39.788" N	RF 569
14	569_14_PT	81° 46' 53.522" E	19° 23' 33.509" N	RF 569

[Signature]
Sub. Divisional Engineer,
 B.S.N.L. Telecom Project,
 Raipur 492001

[Signature]
वन परिक्षेत्र अधिकारी
 परिक्षेत्र माकली



[Signature]
परिक्षेत्र अधिकारी
 देहीकोंगा परिक्षेत्र

[Signature]
Range Officer
 Kondagaon

[Signature]
Range Officer
 Amrawati

[Signature]
वन परिक्षेत्र अधिकारी
 मुलमुला परिक्षेत्र

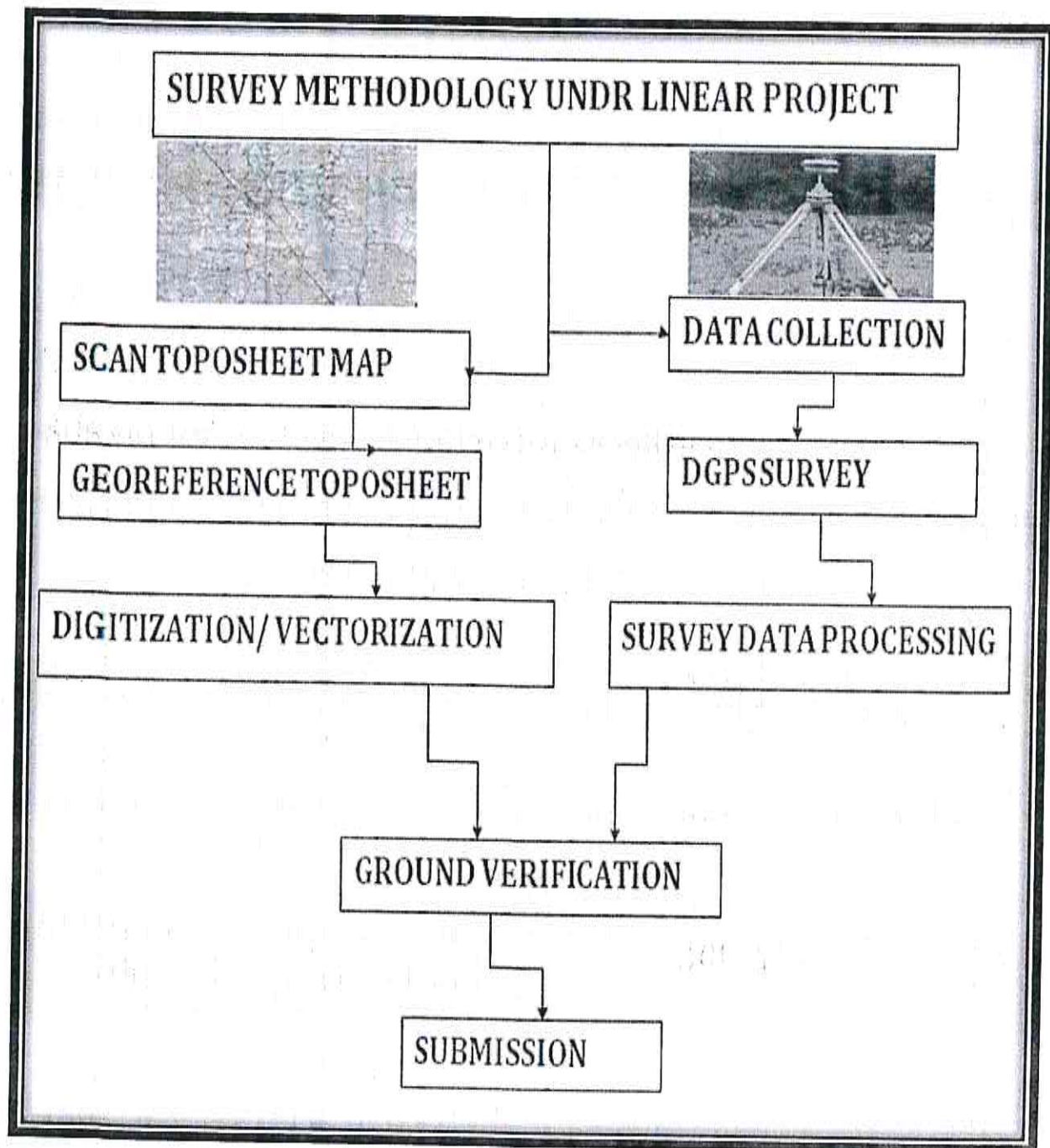
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Sub Division Officer
 East Kondagaon

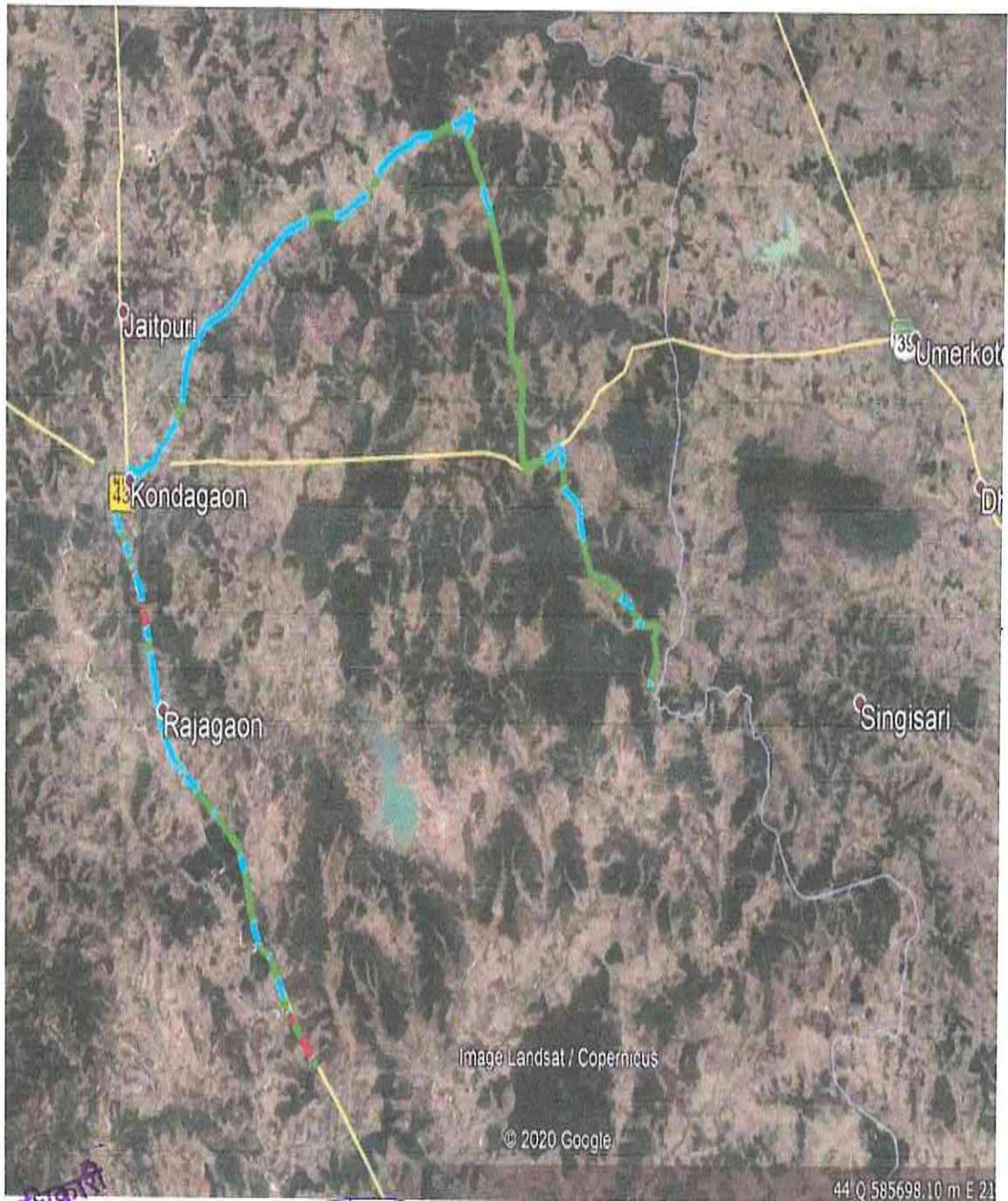
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S.D.O.
 West Kondagaon

[Signature]
Divisional Forest Officer
 South Kondagaon Division
 Kondagaon

4. METHODOLOGY USED

SURVEY METHODOLOGY UNDER LINEAR PROJECT





वन परिक्षेत्र अधिकारी
मुलमुला परिक्षेत्र

वन परिक्षेत्र अधिकारी

परिक्षेत्र माकडी

Google image of proposed OFC line at

परिक्षेत्र अधिकारी
दिहीकोंगा परिक्षेत्र

Forest Division South Kondagaon

District - Kondagaon

Range Officer
Kondagaon

Chhattisgarh

Range Officer
Amrawati

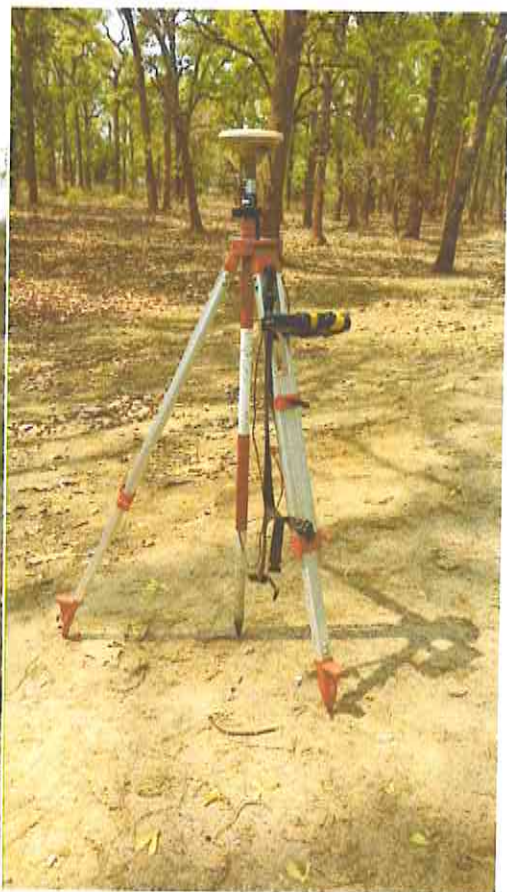
Sub Division Officer,
East Kondagaon

S.D.O
West Kondagaon

Sub. Divisional Engineer,
BSNL, Telecom Project,
RAIPUR (C.G.)

Divisional Forest Officer
South Kondagaon Division
Kondagaon

SITE PHOTOGRAPHS



81°40'0"E

81°50'0"E

82°0'0"E



**SURVEY OF INDIA TOPOSHEET
INDICATIONG PROPOSED
BOUNDARY OF FOREST LAND
DIVISION -SOUTH KONDAGAON
DISTRICT -KONDAGAON,
CHHATTISGARH**

Geographic Coordinate System
WGS 1984
Projected Coordinate Systems
WGS 1984
UTM Zone 44N

**SCALE
1:50,000**

*Sub. Divisional Engineer
BSNL, Telecom Project,
RAIPUR (C.G.)*

0 2.5 5 10 KM



Legend

- Revenue Forest length-3.07 KM**
 - Non Forest Lenght-57.7 KM**
 - Forest Land Lenght-45.26 KM**
 - Proposed Boundary of Forest land**
- SOI TOPOSHEET MAP NO: E44D101**
RGB E44D111, E44D13, E44D141,
E44D151 and E44E21.
- Red: Layer_1**
 - Green: Layer_2**
 - Blue: Layer_3**

**Range Officer
Kondagaon**

**परिक्षेत्र अधिकारी
दिहीकोंगा परिक्षेत्र**

**Range Officer
Amrawati**

**परिक्षेत्र अधिकारी
मलमला परिक्षेत्र**

**परिक्षेत्र अधिकारी
परिक्षेत्र माकसे**

**Sub Division Officer
West Kondagaon**

**Sub Division Officer
East Kondagaon**

**Divisional Forest Officer
South Kondagaon Division
Kondagaon**

81°40'0"E

81°50'0"E

82°0'0"E

19°40'0"N

19°30'0"N

19°40'0"N

19°30'0"N

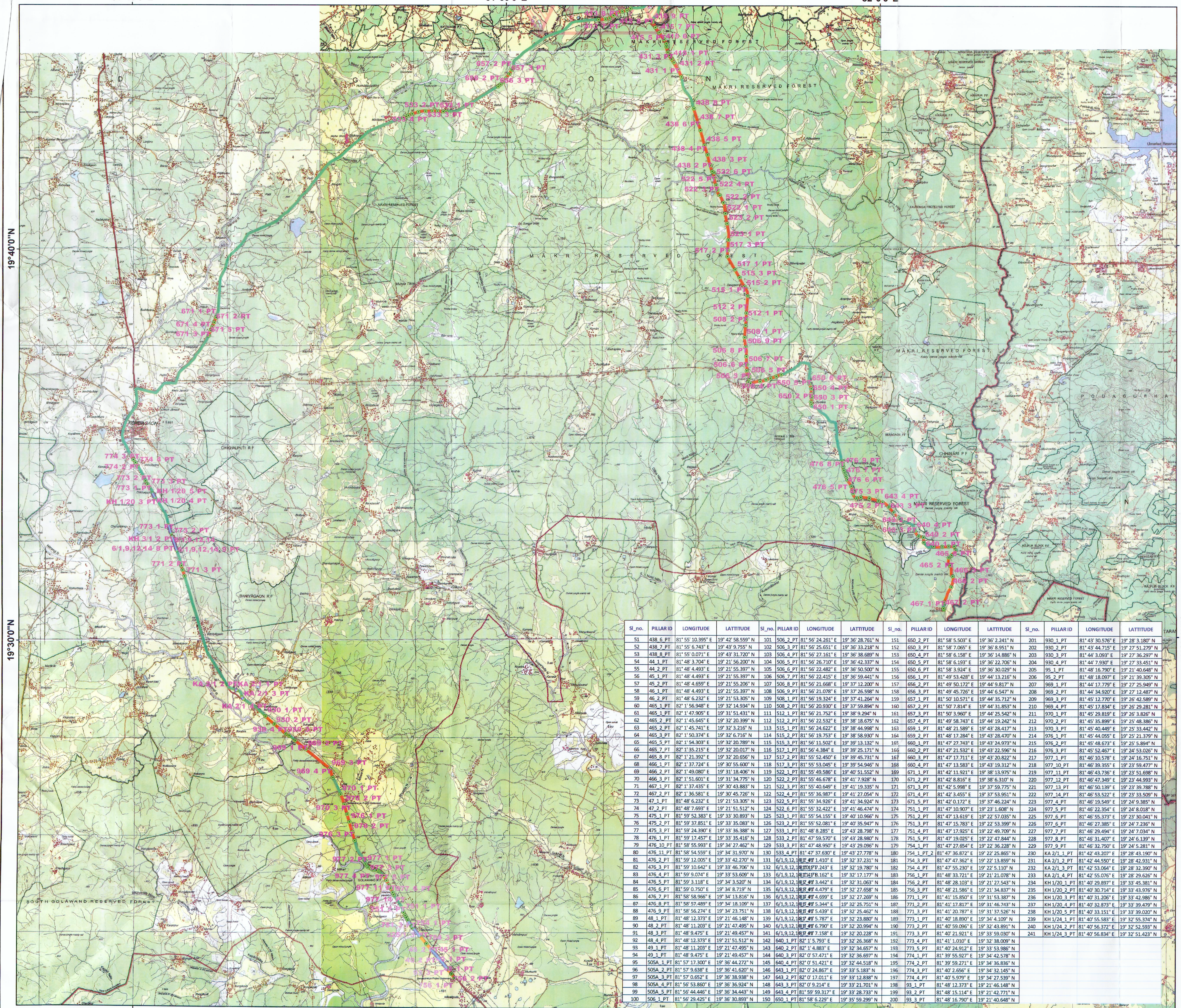
82°0'0"E



Geographic Coordinate System
WGS 1984

Projected Coordinate Systems
WGS 1984
UTM Zone 44N

0 2.5 5 10 **KM**



Sl. no.	PILLAR ID	LONGITUDE	LATITUDE	Sl. no.	PILLAR ID	LONGITUDE	LATITUDE	Sl. no.	PILLAR ID	LONGITUDE	LATITUDE	Sl. no.	PILLAR ID	LONGITUDE	LATITUDE
51	438.6	1° 51' 55.10395"	17° 42' 58.5899"	101	506.2	1° 51' 56.24261"	18° 13' 28.2161"	151	650.2	1° 51' 58.5303"	19° 36' 24.8211"	201	930.1	PT	18° 43' 30.7576"
52	438.7	1° 51' 55.7437"	17° 43' 9.7551"	102	506.3	1° 51' 56.25651"	18° 36' 33.2878"	152	650.3	1° 51' 58.7065"	19° 36' 6.9951"	202	930.2	PT	18° 43' 34.4015"
53	438.8	1° 51' 55.0701"	17° 43' 31.7201"	103	506.4	1° 51' 56.27161"	18° 36' 38.6891"	153	650.4	1° 51' 58.6158"	19° 36' 14.8881"	203	930.3	PT	18° 43' 34.0997"
54	44.1	PT	18° 41' 3.7047"	104	506.5	1° 51' 56.267301"	18° 36' 42.3371"	154	650.5	1° 51' 58.61931"	19° 36' 22.7061"	204	930.4	PT	18° 44' 7.9997"
55	45.1	PT	18° 41' 16.7979"	105	506.6	1° 51' 56.25451"	18° 36' 30.0291"	155	650.6	1° 51' 58.61931"	19° 36' 30.0291"	205	95.1	PT	18° 41' 16.7979"
56	45.1	PT	18° 41' 4.4993"	106	506.7	1° 51' 56.22451"	18° 36' 39.4411"	156	650.7	1° 51' 58.53482"	19° 36' 20.0291"	206	95.2	PT	18° 41' 16.7979"
57	45.2	PT	18° 41' 49.9597"	107	506.8	1° 51' 56.21668"	18° 37' 12.0041"	157	656.2	1° 51' 59.50172"	19° 44' 0.8171"	207	969.1	PT	18° 41' 49.9597"
58	46.1	PT	18° 41' 49.9597"	108	506.9	1° 51' 56.21078"	18° 37' 21.6581"	158	656.3	1° 51' 59.45726"	19° 44' 5.5671"	208	969.2	PT	18° 41' 49.9597"
59	46.2	PT	18° 41' 49.6232"	109	508.1	1° 51' 56.19324"	18° 37' 42.2691"	159	657.1	1° 51' 50.50171"	19° 44' 35.7121"	209	969.3	PT	18° 41' 49.6232"
60	465.1	PT	1° 51' 56.9481"	110	508.2	1° 51' 56.203931"	18° 37' 59.8941"	160	657.2	1° 51' 50.78141"	19° 44' 38.8311"	210	969.4	PT	18° 41' 51.28341"
61	465.2	PT	1° 51' 56.9481"	111	512.1	1° 51' 56.21752"	18° 37' 59.8941"	161	657.3	1° 51' 50.78141"	19° 44' 38.8311"	211	970.1	PT	18° 41' 51.28341"
62	465.2	PT	1° 51' 56.9481"	112	512.2	1° 51' 56.21752"	18° 37' 59.8941"	162	657.4	1° 51' 50.78141"	19° 44' 38.8311"	212	970.2	PT	18° 41' 51.28341"
63	465.2	PT	1° 51' 56.9481"	113	515.1	1° 51' 56.24622"	18° 38' 44.9891"	163	659.1	1° 51' 58.21589"	19° 44' 28.4171"	213	970.3	PT	18° 41' 51.28341"
64	465.3	PT	1° 51' 56.9481"	114	515.2	1° 51' 56.19753"	18° 38' 58.5931"	164	659.2	1° 51' 58.21589"	19° 44' 28.4171"	214	976.1	PT	18° 41' 51.28341"
65	465.5	PT	1° 51' 56.9481"	115	515.3	1° 51' 56.11502"	18° 39' 13.1321"	165	660.1	1° 51' 58.21589"	19° 44' 28.4171"	215	976.2	PT	18° 41' 51.28341"
66	465.7	PT	1° 51' 56.21571"	116	517.1	1° 51' 56.43841"	18° 39' 35.1711"	166	660.2	1° 51' 58.21589"	19° 44' 28.4171"	216	976.3	PT	18° 41' 51.28341"
67	466.1	PT	1° 51' 56.21571"	117	517.2	1° 51' 56.43841"	18° 39' 35.1711"	167	660.3	1° 51' 58.21589"	19° 44' 28.4171"	217	977.1	PT	18° 41' 51.28341"
68	466.1	PT	1° 51' 56.21571"	118	517.3	1° 51' 56.43841"	18° 39' 35.1711"	168	660.4	1° 51' 58.21589"	19° 44' 28.4171"	218	977.2	PT	18° 41' 51.28341"
69	466.2	PT	1° 51' 56.21571"	119	522.1	1° 51' 56.43841"	18° 40' 51.5521"	169	671.1	1° 51' 58.21589"	19° 44' 28.4171"	219	111.1	PT	18° 41' 5

 Revenue Forest length-3.07 KM

 Non Forest Length-57.7 KM

 Forest Land Length-45.26 KM

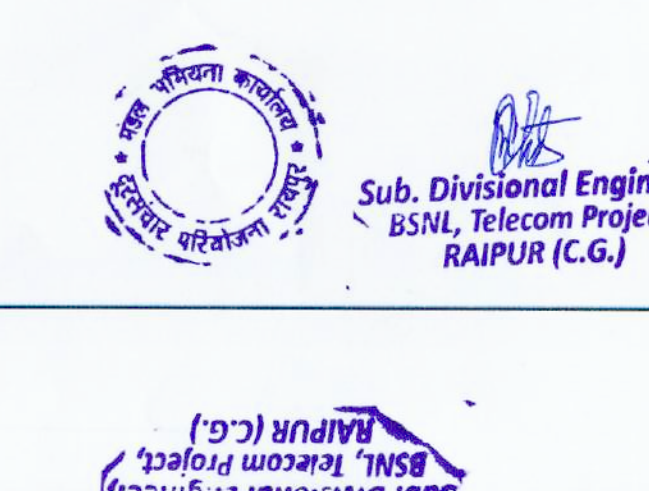
 Proposed Boundary of Forest land

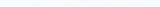
Red: Layer 1

Green: Layer 2

Blue: Layer_3

- DGPS_Survey_points






वन परिक्षेत्र अधिकारी
परिक्षेत्र नांदेड

वन परिक्षेत्र अधिकारी
मुलमुला परिक्षेत्र

Range Officer
Kondagaon

परिक्षेत्र अधिकारी
दहीकोणा परिक्षेत्र

Range Officer S.D.O
Amrawad West Kondagaon

Sub Division Officer
EastKondagaon

Divisional Forest Officer
South Kondagaon Division
Kondagaon