

CHHATTISGARH STATE POWER TRANSMISSION CO. LTD

A GOVT OF CHHATTISGARH UNDERTAKING.

DGPS Survey Report

FOR COMPENSATORY AFFORESTATION LAND FOR PROPOSED 132KV
DCDS KONDAGAON- NARAYANPUR TRANSMISSION LINE



Submitted to:

Chhattisgarh State Power Transmission Co. Ltd.

Korba

Submitted By.
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वनमण्डलाधिकारी, नारायणपुर
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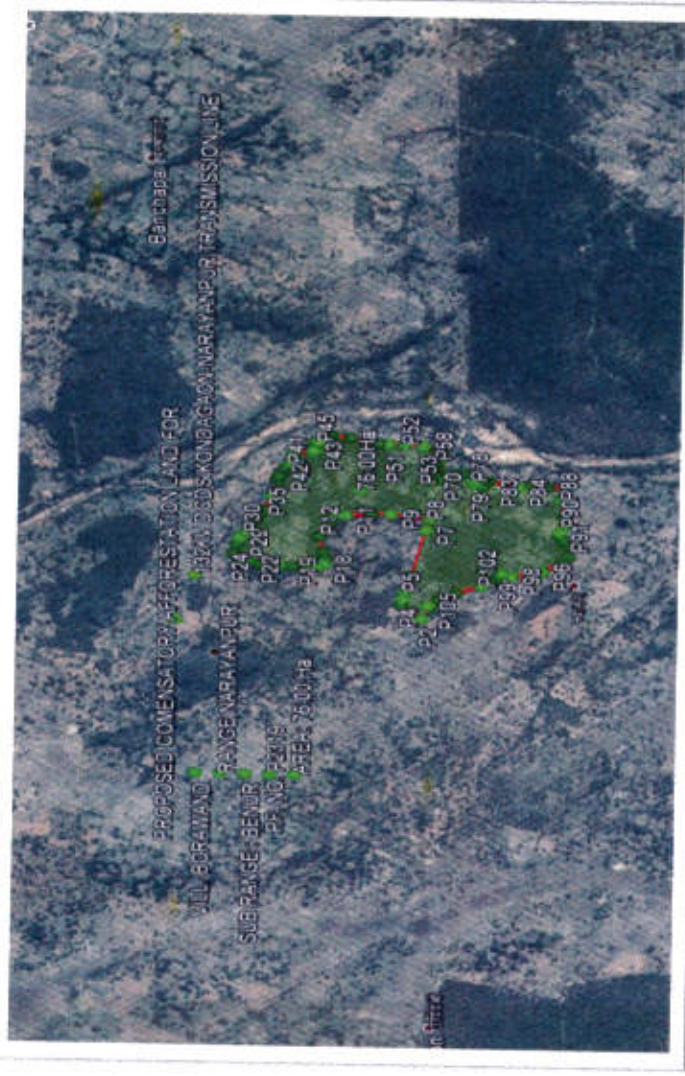
DGPS SURVEY FOR COMPENSATORY FORESTATION FOR PROPOSED 132kV DCDS KONDAGAON-NARAYANPUR TRANSMISSION LINE

1.0 INTRODUCTION

Proposed 132 kV Kondagaon- Narayanpur Transmission Line from 132/33kV S/S Kondagaon to Proposed 220/132kV S/S Narayanpur was awarded by Chhattisgarh State Power Transmission Company Limited (A CG Govt. Undertaking) to M/S N.K. Enterprises, Vaishali, Ghaziabad(India). The proposed transmission line will be utilized to deviate the power for Narayanpur from Existing 132/33kV S/S Kondagaon.

2.0 SURVEY AREA

The compensatory Afforest area is identified around Borawand area i.e. PF- P2319, which is situated approx 7Km& 28 Km ground distance from Village Benur & Kondagaon respectively. PF- P2319 could be described as 76.00 hectare area identified for plantation.



(Signature)

Assistant Engineer

400 KV Line Construction

C.S.P. Trans. Co., Ltd. (Sanjay)

(Signature)

(Sd/- K. K. Kulkarni)

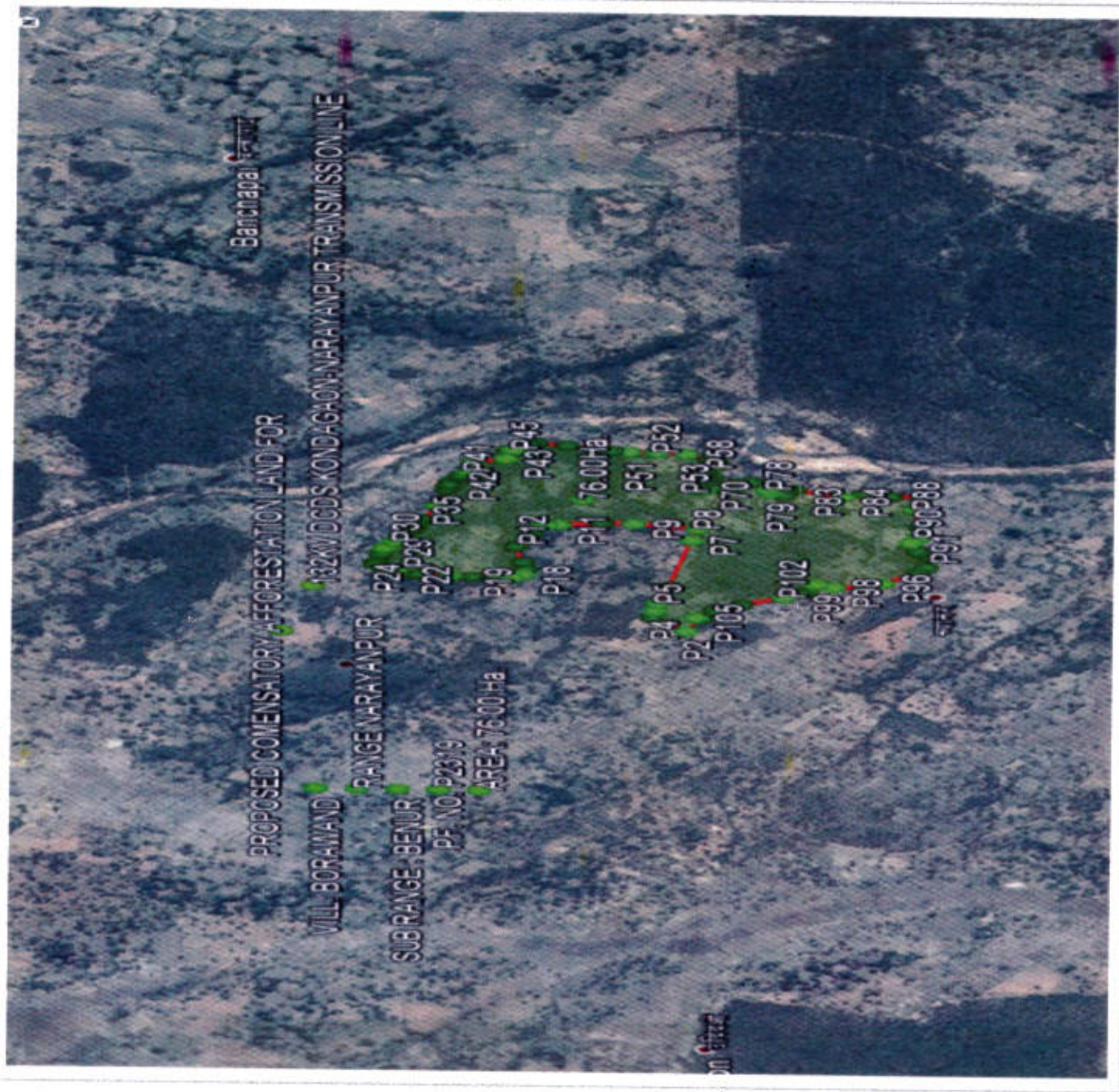
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The Google Imageries for Identified Land for Compensatory Afforestation area is given below

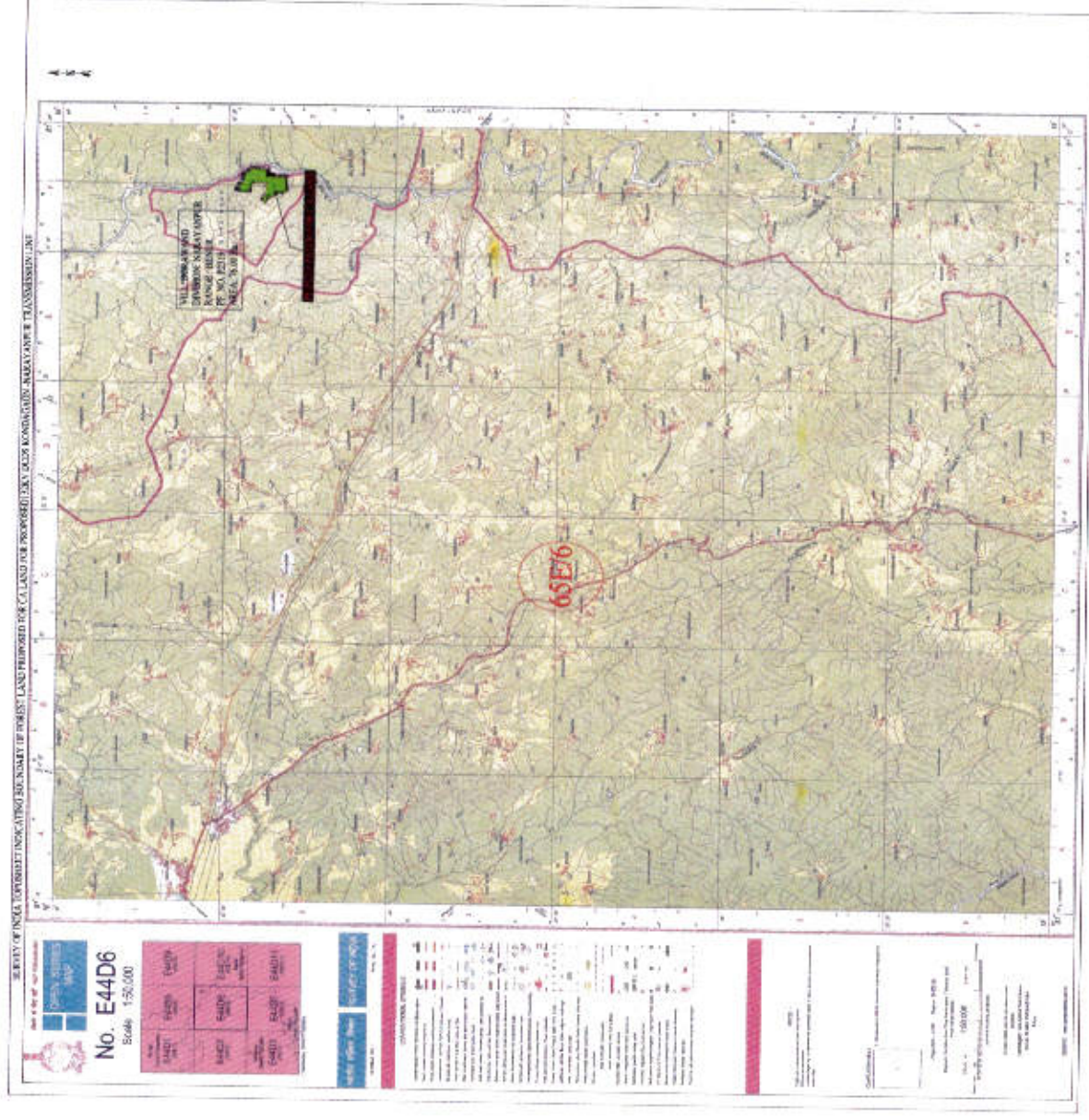


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 Assistant Engineer
 ACS KV Line - Construction
 C.S.P. Trans. Co. Ltd. *[Stamp]*
 C.S.P. Trans. Co. Ltd., Xai

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 EXECUTIVE ENGINEER
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Compensatory forest area i.e. PF: P2319 falls in survey of India Toposheet No.65E6, The Toposheet plot is given below:

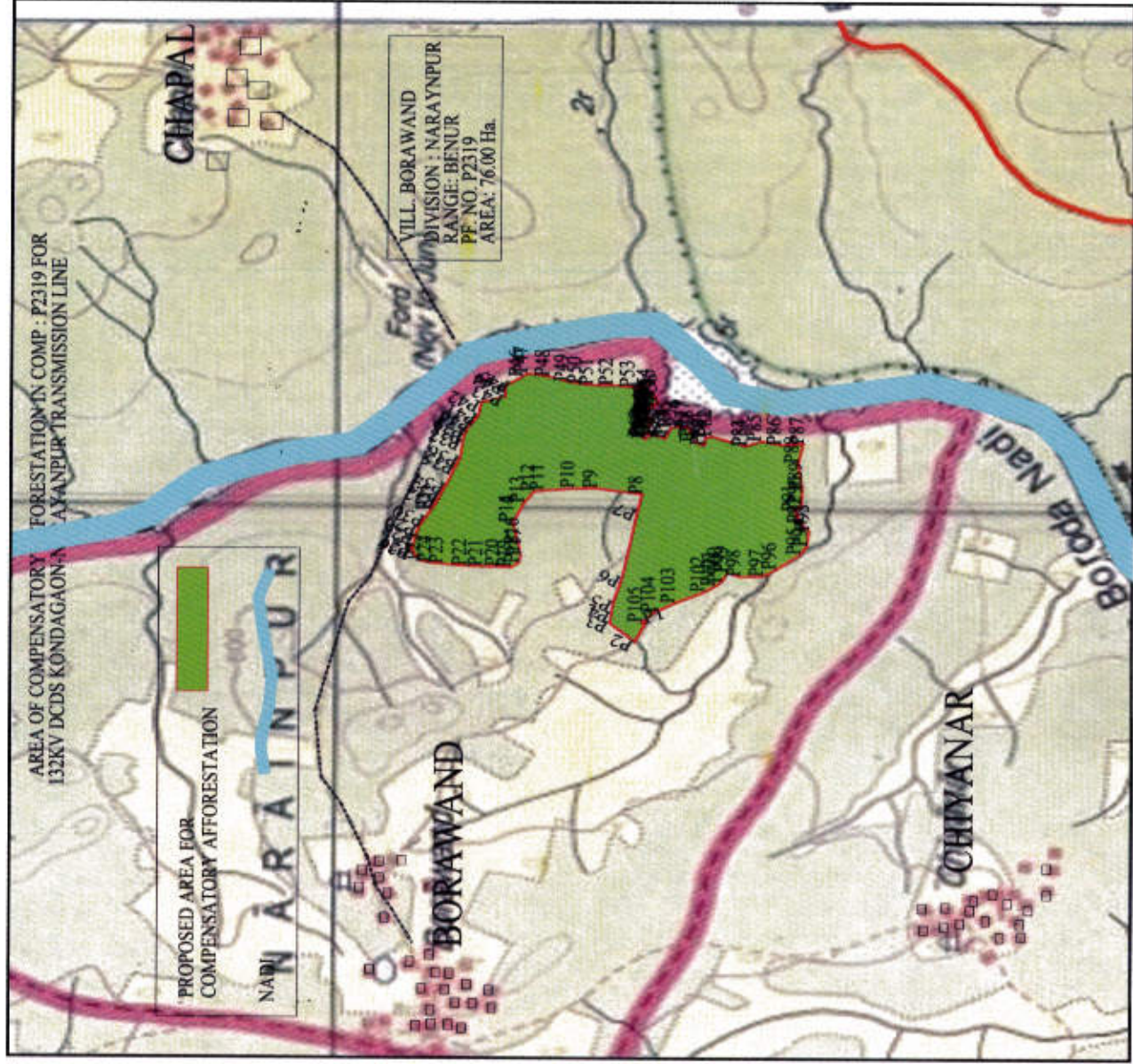



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Identification for Compensatory Forest Land in PF : P2319



1-300110

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**TREATMENT PLAN FOR
132KV DCDS KONDAGAON-NARAYANPUR TRANSMISSION LINE
COMPARTMENT WORKABLE AREA: 76.00 Ha.**

CHAPAL

CART TRACK

**VILL. BORAWAND
DIVISION: NARAYANPUR
RANGE: BENUR
PF. NO. P2319
AREA: 76.00 Ha.**

BORAWAND

CHAYANAR

**PROPOSED AREA FOR
COMPENSATORY AFFORESTATION**

NADI

ROAD

Legend:

- PROPOSED AREA FOR COMPENSATORY AFFORESTATION (Green)
- NADI (Blue)
- ROAD (Red)

Scale: 1:50,000

North Arrow: N

Map Details:

The map shows a green area representing the proposed area for compensatory afforestation, located between the Borawand and Chayanar villages. The area is bounded by a red line representing the road and a blue line representing the Nadi. The map includes a legend, a scale bar, and a north arrow. The map also shows the location of the transmission line and the area of the transmission line.

Map Coordinates:

75 81 29 53.18 29 43 13.11
76 81 29 53.18 29 43 13.11
77 81 29 53.18 29 43 13.11
78 81 29 53.18 29 43 13.11
79 81 29 53.18 29 43 13.11
80 81 29 53.18 29 43 13.11
81 81 29 53.18 29 43 13.11
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98 81 29 53.18 29 43 13.11
99 81 29 53.18 29 43 13.11
100 81 29 53.18 29 43 13.11

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3.0 INTRODUCTION ABOUT DGPS

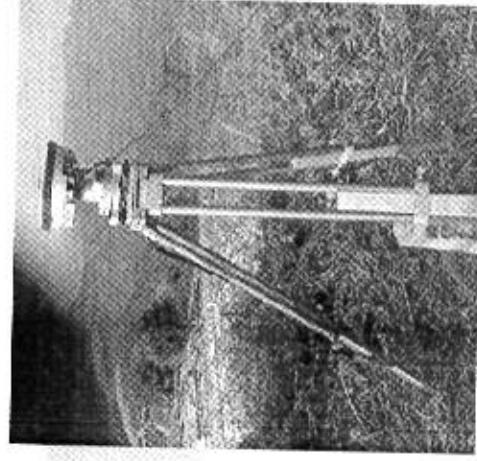
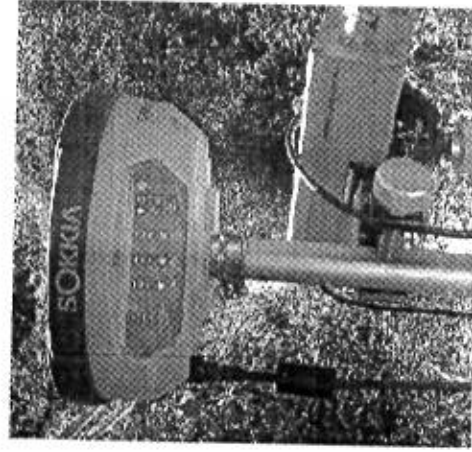
The survey using DGPS (Differential Global Positioning system) was the purpose to enhance location accuracy as compare to hand GPS from 7 – 10m to 10 cm.

The real time DGPS occurs when the base station calculates and broadcasts corrections for each satellite as it receives the data. The correction is received by the roving receiver via a radio signal if the source is land based or via satellite signal if it is satellite based and applied to the position it is calculating. As a result, the position displayed and logged to the data file of the roving GPS receiver is a differential corrected position.

Another method for obtaining real – time differential correction data in the field is by using geostationary satellites. This system obtains corrections from more than one reference station. Reference stations collect the base station GPS data and relay this data in RTCM SC-104 format to a network control center, which sends the information to a geostationary satellite for verification. The verified information is sent to the roving GPS receiver to ensure it obtains GPS positions in real time.

4.0 EQUIPMENT DEPLOYED

Specific Surveying equipment was used for fixing the control points on ground for this project. The present work was performed by using GRX-1 dual frequency GNSS base receiver in RTK model





The GRX1 receiver is a multi-frequency, GNSS receiver built to be the most advanced and compact receiver for the surveying market. The receiver is a multifunction, multi-purpose receiver intended for survey and construction markets.

The GRX1 receivers and processes multiple signal types (including GPS L1, L2, C/A, L2C GLONASS L1, L2, C/A Signals) improving the accuracy and reliability of the survey points and positions, especially under difficult jobsite conditions. The receiver provides the functionality, accuracy, availability, and integrity needed for fast and easy data collection

PRINCIPLES OF OPERATION

Surveying with the right GPS receiver can provide users accurate and precise positioning; a requirement for any surveying project. This section gives an overview of existing and proposed Global Navigation Satellite Systems (GNSS) and receiver functions so that basic operating principles can be applied

GNSS OVERVIEW:

Currently the following two global navigation satellite systems (GNSS) offer line of site radio navigation and positioning, velocity, and time services on a global, all-weather scale to any user equipped with a GNSS tracking receiver on or near the earth surface:

GPS: The Global Positioning System maintained and operated by the United States Department of Defense. For information on the status of this system, visit the US Naval Observatory website (<http://tycho.usno.navy.mil/>) or the US Coast Guard website (<http://www.uscg.gov/>).

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GLONASS: The Global Navigation Satellite system maintained and operated by the Russian Federation Ministry of Defence. For information on the status of this system, visit the Coordinational Scientific Information Center Website (<http://www.glonas-iauc.rsa.ru/>). Despite numerous technical differences in the implementation of these systems, satellite positioning systems have three essential components:

SPACE: GPS and GLONASS satellites orbit approximately 12,000 nautical miles above Earth and are equipped with a clock and radio. These satellites broadcast ranging signals and various digital information (ephemerides, almanacs, time and frequency corrections, and so forth).

CONTROL: Ground stations located around the Earth that monitor the satellites and upload data, including clock corrections and new ephemerides (satellite positions as a function of time), to ensure the satellites transmit data properly.

USER: the community and military that use GNSS receivers to calculate positions.

CALCULATING ABSOLUTE POSITIONS:

When calculating an absolute position, a stationary or moving receiver determines its three – dimensional position with respect to the origin of an Earth-Center Earth-Fixed coordinate system. To calculate this position, the receiver measures the distance (called pseudo ranges) between it and at least four satellites. The measured pseudo ranges are corrected for clock differences (receiver and satellites) and signal propagation delays due to atmospheric effects. The positions of the satellites are computed from the ephemeris data transmitted to the receiver in navigation messages. When using a single satellite system, the minimum number of satellites needed to compute a position is four. In a mixed satellite scenario (GPS and GLONASS), the receiver must lock onto five or more satellites to account for the different time scales used in these systems and to obtain an absolute position.

CALCULATING DIFFERENTIAL POSITIONS:

DGPS (Differential GPS) is a relative positioning technique where the measurements from two or more remote receivers are combined and processed using sophisticated algorithms to calculate the receivers relative coordinates with high accuracy. DGPS accommodates various implementation techniques that can be classified according to the following criteria:

The type of GNSS measurements used, either code-phase differential measurements or carrier – phase differential measurements.

If real – time or post-mission results are required. Real-time applications can be further divided according to the source of differential data and communication link used.

With DGPS in its most traditional approach, one receiver is placed at a known, surveyed location and is referred to as the reference receiver or base station. Another receiver is placed at an unknown location and is referred to as the remote receiver or rover. The reference station collects the code-phase and carrier.

5.0 Conclusion:

The DGPS Survey is Conducted for Identical Compensatory Forest Area i.e., P-2319. The Sample Survey was also conducted for Patch in the identified area for PF-P2319 in order to calculate the present density of proposed area for compensatory forestation. The detail of DGPS survey for PF-P2319 is given under.

DGPS Coordinates for Compensatory Afforestation of PF: P2319 for Proposed 132kV DCDS Kondagaon to Narayanpur Trans. Line

S.N o.	Point ID	Distance from Base (meter)	Coordinates in UTM -44		Coordinates in WGS-84 (DMS)		Coordinates in WGS-84 (DD)	
			Easting	Northing	Longitude	Latitude	Longitude	Latitude
1	B1	0	550317.766	2177878.581	81°28'44.446"	19°42'8.361"	81.47901278	19.7023225
2	P1	548.13	549878.6137	2178206.600	81°28'33.326"	19°41'55.213"	81.47592389	19.69867028
3	P2	630.40	549803.6183	2178243.353	81°28'30.753"	19°41'56.415"	81.47520917	19.69900417
4	P3	626.96	549882.1691	2178329.512	81°28'33.46"	19°41'59.211"	81.47596111	19.69978083
5	P4	593.73	549923.5169	2178322.527	81°28'34.879"	19°41'58.98"	81.47635528	19.69971667
6	P5	558.99	549969.7345	2178316.015	81°28'36.466"	19°41'58.764"	81.47679611	19.69965667
7	P6	475.85	550073.0743	2178286.699	81°28'40.013"	19°41'57.801"	81.47778139	19.69938917
8	P7	357.49	550353.8254	2178234.25	81°28'49.652"	19°41'56.069"	81.48045889	19.69890806
9	P8	356.49	550422.8273	2178219.243	81°28'52.02"	19°41'55.574"	81.48111667	19.69877056
10	P9	515.94	550448.0154	2178377.812	81°28'52.901"	19°42'0.73"	81.48136139	19.70020278
11	B2	801.67	550641.4717	2178611.993	81°28'59.497"	19°41'44.471"	81.48319361	19.69568639
12	P10	248.91	550446.6612	2178457.051	81°28'52.862"	19°42'3.308"	81.48135056	19.70091889
13	P11	209.79	550437.2791	2178563.834	81°28'52.55"	19°42'6.783"	81.48126389	19.70188417
14	P12	208.98	550433.0291	2178596.948	81°28'52.407"	19°42'7.861"	81.48122417	19.70218361
15	P13	258.24	550384.1293	2178633.528	81°28'50.731"	19°42'9.055"	81.48075861	19.70251528
16	P14	343.66	550303.0792	2178671.627	81°28'47.949"	19°42'10.302"	81.47998583	19.70286167
17	P15	344.85	550301.7377	2178671.144	81°28'47.905"	19°42'10.287"	81.47997361	19.7028575
18	P16	435.84	550207.5485	2178652.875	81°28'44.668"	19°42'9.701"	81.47907444	19.70269472
19	P17	479.82	550162.7269	2178644.1192	81°28'43.127"	19°42'9.42"	81.47864645	19.7026167
20	P18	511.89	550131.1147	2178651.5707	81°28'42.042"	19°42'9.664"	81.47834494	19.70268437
21	P19	532.31	550113.5290	2178680.0339	81°28'41.441"	19°42'10.593"	81.47817797	19.70294246
22	P20	535.73	550116.6979	2178719.7678	81°28'41.553"	19°42'11.885"	81.47820928	19.70330149
23	P21	549.88	550117.4711	2178778.5513	81°28'41.584"	19°42'13.798"	81.47821782	19.70383765
24	P22	567.57	550119.2686	2178834.3532	81°28'41.653"	19°42'15.613"	81.47823688	19.70433685
25	P23	597.39	550127.0673	2178915.7419	81°28'41.929"	19°42'18.26"	81.47831349	19.70507214


 Consultant Engineer
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 (Mr. Kadir Khan)
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26	P24	615.50	550131.6402	2178956.8338	81°28'42.09"	19°42'19.596"	81.4783582	19.70544334
27	P25	630.25	550140.6872	2178994.6586	81°28'42.404"	19°42'20.826"	81.47844557	19.70578497
28	P26	612.95	550185.4271	2179021.5393	81°28'43.943"	19°42'21.696"	81.47887319	19.70602674
29	P27	601.80	550197.6036	2179018.3679	81°28'44.361"	19°42'21.592"	81.47898923	19.70599778
30	P28	559.40	550247.1410	2179008.7629	81°28'46.062"	19°42'21.275"	81.47946168	19.70590968
31	P29	526.76	550284.0809	2178998.289	81°28'47.33"	19°42'20.931"	81.47981389	19.70581417
32	P30	481.14	550323.8061	2178973.354	81°28'48.692"	19°42'20.116"	81.48019222	19.70558778
33	P31	451.88	550351.1577	2178958.277	81°28'49.63"	19°42'19.623"	81.48045278	19.70545083
34	P32	402.99	550397.3524	2178932.63	81°28'51.215"	19°42'18.784"	81.48089306	19.70521778
35	P33	374.89	550427.7686	2178920.012	81°28'52.258"	19°42'18.371"	81.48118278	19.70510306
36	P34	344.16	550459.6935	2178904.226	81°28'53.353"	19°42'17.855"	81.48148694	19.70495972
37	P35	275.11	550543.9235	2178869.225	81°28'56.243"	19°42'16.708"	81.48228972	19.70464111
38	P36	252.28	550574.612	2178855.25	81°28'57.296"	19°42'16.251"	81.48258222	19.70451417
39	P37	235.34	550644.46	2178847.316	81°28'59.694"	19°42'15.986"	81.48324833	19.70444056
40	P38	231.09	550670.5422	2178841.25	81°29'0.59"	19°42'15.786"	81.48349722	19.704385
41	P39	229.36	550693.7281	2178835.323	81°29'1.386"	19°42'15.591"	81.48371833	19.70433083
42	P40	217.27	550723.1118	2178813.344	81°29'2.393"	19°42'14.874"	81.48399806	19.70413167
43	P41	212.61	550751.5745	2178793.874	81°29'3.369"	19°42'14.238"	81.48426917	19.703955
44	P42	237.80	550806.0742	2178783.616	81°29'5.24"	19°42'13.899"	81.48478889	19.70386083
45	P43	209.45	550830.668	2178701.837	81°29'6.076"	19°42'11.236"	81.48502111	19.70312111
46	P44	255.08	550881.6245	2178697.978	81°29'7.826"	19°42'11.106"	81.48550722	19.703085
47	P45	255.69	550887.902	2178680.177	81°29'8.04"	19°42'10.526"	81.48556667	19.70292389
48	P46	274.05	550914.049	2178640.396	81°29'8.935"	19°42'9.23"	81.48581528	19.70256389
49	P47	287.05	550928.2288	2178624.939	81°29'9.42"	19°42'8.725"	81.48595	19.70242361
50	P48	281.83	550915.7256	2178547.093	81°29'8.983"	19°42'6.194"	81.48582861	19.70172056
51	P49	286.23	550895.4521	2178479.993	81°29'8.28"	19°42'4.013"	81.48563333	19.70111472
52	P50	302.26	550886.1042	2178434.467	81°29'7.954"	19°42'2.533"	81.48554278	19.70070361
53	P51	324.03	550880.9146	2178393.673	81°29'7.772"	19°42'1.206"	81.48549722	19.700335
54	P52	373.78	550880.1754	2178324.364	81°29'7.74"	19°41'58.952"	81.48548333	19.69970889
55	P53	429.14	550872.5715	2178250.365	81°29'7.47"	19°41'56.545"	81.48540833	19.69904028
56	P54	463.98	550837.5936	2178191.501	81°29'6.264"	19°41'54.633"	81.48507333	19.69850917
57	P55	475.20	550835.0787	2178177.997	81°29'6.175"	19°41'54.194"	81.48504861	19.69838722
58	P56	473.94	550813.3048	2178170.297	81°29'5.478"	19°41'53.946"	81.48484111	19.69831833
59	P57	454.82	550791.6431	2178182.683	81°29'4.685"	19°41'54.351"	81.48463472	19.69843083
60	P58	444.27	550789.583	2178193.137	81°29'4.615"	19°41'54.691"	81.48461528	19.69852528
61	P59	429.90	550777.3791	2178204.138	81°29'4.197"	19°41'55.05"	81.48449917	19.698625
62	P60	426.08	550771.0194	2178206.088	81°29'3.979"	19°41'55.114"	81.48443861	19.69864278
63	P61	425.38	550767.32	2178204.137	81°29'3.68"	19°41'55.051"	81.48435556	19.69862528
64	P62	426.47	550749.6205	2178199.467	81°29'3.243"	19°41'54.901"	81.48423417	19.69858361
65	P63	437.63	550729.9212	2178183.396	81°29'2.565"	19°41'54.38"	81.48404583	19.69843889
66	P64	420.91	550716.2577	2178197.775	81°29'2.097"	19°41'54.849"	81.48391583	19.69856917
67	P65	422.89	550712.7292	2178195.151	81°29'1.976"	19°41'54.764"	81.48388222	19.69854556


 Assistant Engineer
 Surveying & Mapping
 Department
 Government of Maharashtra
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 वनमण्डलाधिकारी, नारायणपुर
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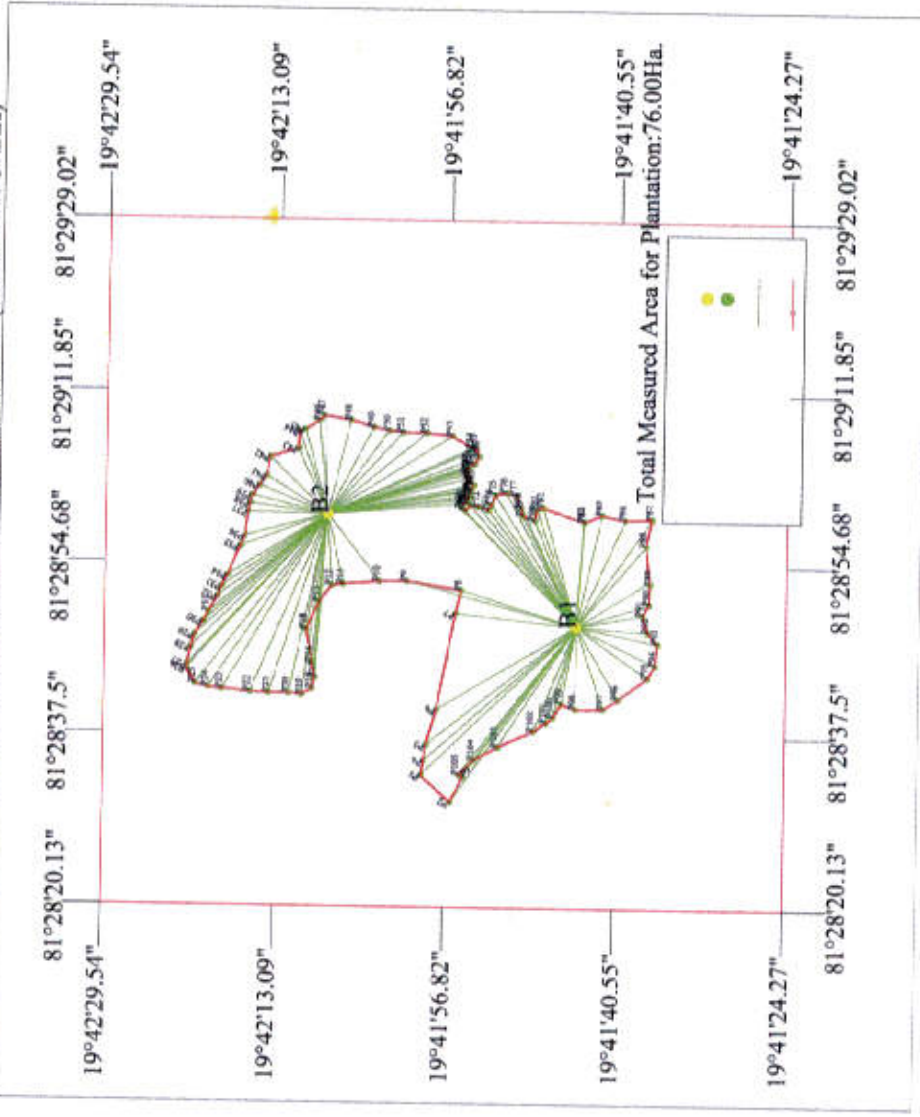
68	P66	418.25	550698.3723	2178197.63	81°29'1.483"	19°41'54.846"	81.48374528	19.69856833
69	P67	413.05	550689.0976	2178201.695	81°29'1.165"	19°41'54.979"	81.48365694	19.69860528
70	P68	397.73	550674.5788	2178215.647	81°29'0.667"	19°41'55.434"	81.48351861	19.69873167
71	B1	0	550317.766	2177878.581	81°28'44.446"	19°42'8.361"	81.47901278	19.7023225
72	P69	487.47	550664.0517	2178221.681	81°29'0.306"	19°41'55.631"	81.48341833	19.69878639
73	P70	472.43	550654.8621	2178209.569	81°28'59.989"	19°41'55.738"	81.48333028	19.69867722
74	P71	474.76	550671.5337	2178195.203	81°29'0.561"	19°41'54.769"	81.48348917	19.69854694
75	P72	454.87	550667.6465	2178169.249	81°29'0.425"	19°41'53.925"	81.48345139	19.6983125
76	P73	479.66	550658.1645	2178140.751	81°29'0.096"	19°41'52.999"	81.48336	19.69805528
77	P74	437.13	550673.2145	2178133.02	81°29'0.612"	19°41'52.746"	81.48350333	19.697985
78	P75	453.85	550701.7509	2178120.528	81°29'1.591"	19°41'52.337"	81.48377528	19.69787139
79	P76	442.62	550707.5188	2178088.354	81°29'1.786"	19°41'51.29"	81.48382944	19.69758056
80	P77	473.07	550700.2084	2178059.495	81°29'1.532"	19°41'50.352"	81.48375889	19.697732
81	P78	385.14	550664.9714	2178045.251	81°29'0.321"	19°41'49.891"	81.4834225	19.69719194
82	P79	363.16	550642.8876	2178040.396	81°28'59.562"	19°41'49.736"	81.48321167	19.69714889
83	P80	336.09	550629.2477	2178004.807	81°28'59.09"	19°41'48.579"	81.48308056	19.6968275
84	P81	362.49	550659.6912	2177998.941	81°29'0.135"	19°41'48.385"	81.48337083	19.69677361
85	P82	363.36	550666.7439	2177979.81	81°29'0.375"	19°41'47.762"	81.4834375	19.69660056
86	P83	308.68	550625.9325	2177860.81	81°28'58.962"	19°41'43.895"	81.483045	19.69552639
87	P84	309.25	550626.3259	2177857.885	81°28'58.975"	19°41'43.8"	81.48304861	19.6955
88	P85	336.53	550646.5989	2177807.039	81°28'59.666"	19°41'42.144"	81.48374056	19.69504
89	P86	344.57	550632.3658	2177738.018	81°28'59.171"	19°41'39.9"	81.48310306	19.69441667
90	P87	386.28	550635.4578	2177658.852	81°28'59.269"	19°41'37.324"	81.48313028	19.69370111
91	P88	312.10	550555.7829	2177676.71	81°28'56.534"	19°41'37.912"	81.48237056	19.69386444
92	P89	250.90	550445.596	2177662.685	81°28'52.748"	19°41'37.466"	81.48131889	19.69374056
93	P90	274.18	550385.9986	2177665.037	81°28'50.701"	19°41'37.548"	81.48075028	19.69376333
94	P91	196.90	550353.4072	2177684.932	81°28'49.584"	19°41'38.198"	81.48044	19.69394389
95	P92	211.53	550303.9127	2177667.505	81°28'47.882"	19°41'37.636"	81.47996722	19.69378778
96	P93	245.04	550270.5778	2177638.131	81°28'46.734"	19°41'36.683"	81.47964833	19.69352306
97	P94	258.29	550206.3301	2177645.565	81°28'44.528"	19°41'36.931"	81.47903556	19.69359194
98	P95	256.39	550171.1047	2177668.278	81°28'43.32"	19°41'37.673"	81.4787	19.69379806
99	P96	244.77	550107.3965	2177753.461	81°28'41.14"	19°41'40.45"	81.47809444	19.69456944
100	P97	251.51	550079.5292	2177797.955	81°28'40.188"	19°41'41.9"	81.47783	19.69497722
101	P98	239.61	550078.1531	2177877.935	81°28'40.148"	19°41'44.502"	81.47781889	19.695695
102	P99	227.31	550094.203	2177919.706	81°28'40.703"	19°41'45.86"	81.47797306	19.69607222
103	P100	273.38	550052.3272	2177943.982	81°28'39.267"	19°41'46.653"	81.47757417	19.6962925
104	P101	293.45	550037.2557	2177964.753	81°28'38.752"	19°41'47.33"	81.47743111	19.69648056
105	P102	328.70	550012.7578	2178001.118	81°28'37.914"	19°41'48.516"	81.47719833	19.69681
106	P103	418.89	549965.371	2178105.052	81°28'36.296"	19°41'51.901"	81.47674889	19.69775028
107	P104	489.27	549927.327	2178173.445	81°28'34.996"	19°41'54.13"	81.47638778	19.69836944
108	P105	551.80	549883.9171	2178219.552	81°28'33.509"	19°41'55.634"	81.4759772	19.69878722


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वनमंडल, नारायणपुर (छ.ग.)

Total 2 Nos base Point have been establish on ground to cover 105 point on ground to complete the survey of identified Forest area of PF-P2319. The Base & Rover Configuration is Given Below

132kV DCDS KONDAGAON- NARAYANPUR TRANS. LINE
PROPOSAL FOR COMPENSATORY AFForestation FOR PF: P2319
VILLAGE : BORAWAND, DISTRICT NARAYANPUR (CHHATTISGARH)



[Signature]
Project Engineer
Rajiv Kumar Construction (PVT) Ltd.
C&J Trans. Co. Ltd. Raipur

[Signature]
वनमण्डलाधिकारी, नारायणपुर
वनमण्डल, नारायणपुर (छ.ग.)