



POWERGRID CORPORATION OF INDIA LIMITED
(A Govt. Of India Enterprise)

DGPS SURVEY REPORT

**Diversion of 153.4481 Hac. Forest land under Raigarh,
Dharamjaygarh and Korba Forest Division of
CHHATTISGARH State**

**Name Of The Project :- 765KV D/C (HEX ZEBRA) JHARSUGUDA-
DHARAMJAYGARH (KORBA) TL- 2 ckt-3&4**

Registration No :- FP/CG/TRANS/8080/2014/ Dated 22.11.2014



MNEC Consultants Pvt. Ltd.

(An ISO 9001:2008 & ISO 27001:2005 Certified Company)

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INTRODUCTION & PURPOSE

POWERGRID CORPORATION OF INDIA LIMITED (a Govt. of India enterprises), the central transmission utility (CTU) of the country, has been entrusted upon the construction of various EHV transmission lines and associated state-of-the-art substations towards establishment and operation of regional and national power grid to transfer of bulk power within & across the regions with reliability.

As a part of the above one 765kV D/C Jharsuguda-Dharamjaygarh Transmission Line-2 Circuit 3&4 is being constructed under "common system associated with East Coast Energy Pvt. Ltd. & NCC power projects LTOA Generation project in Shrikakulam Area (Part-B)".

This line is passing through the state of Chhattisgarh wherein there are huge forest patches and having no other alternative from forest land. However, the route alignment of above said transmission line is carried out keeping in view of involvement of minimum forest area. The route alignment transverse through the forest patches and while construction of said transmission line, permission from the forest department has to be taken. Hence, in order to prepare the forest proposal, exact areas of the forest land are to be known. Therefore the activity of DGPS survey of forest patches for the said transmission line is carried out. The route is passing through Raigarh, Dharamjaygarh and Korba forest divisions.

The details of forest area involved Division wise & Range wise are as given below:

S. N.	Name of District	Name of Division	Affected Area (Ha.)	Name of Range	Affected Area (Ha.)	Remark
1	Raigarh	Raigarh	93.1635	Tamnar	65.7940	
				Gharghoda	17.2190	
				Kharsia	10.1505	
		Dharamjaygarh	33.7057	Chhal	19.9037	
				Lailunga	13.8020	
2	Korba	Korba	26.5789	Kartala	26.5789	
Total Area			153.4481	Total	153.4481	



Division Wise Forest details:

RAIGARH DIVISION:

S.N.	Name of Division	Type of forest land	Affected Area (Ha.)	Remark
1	Raigarh	Reserve Forest Land	56.4140	
		Protected Forest Land	22.0430	
		Orange Forest Land	8.5425	
		Revenue Forest Land	6.1640	
		Total	93.1635	

DHARAMJAYGARH DIVISION:

S.N.	Name of Division	Type of forest land	Affected Area (Ha.)	Remark
2	Dharamjaygarh	Reserve Forest Land	22.7800	
		Protected Forest Land	0.3400	
		Revenue Forest Land	10.5857	
		Total	33.7057	

KORBA DIVISION:

S.N.	Name of Division	Type of forest land	Affected Area (Ha.)	Remark
		Protected Forest Land	5.8022	
		Orange Forest Land	6.2310	
		Revenue Forest Land	14.5457	
		Total	26.5789	



**Summary of Forest Land Details of Raigarh, Dharamjaygarh & Korba
Forest Division:**

S.N.	Type of forest land	Affected Area (Ha.)
1	Reserve Forest Land	79.1940
2	Protected Forest Land	28.1852
3	Orange Forest Land	14.7735
4	Revenue Forest Land	31.2954
Total		153.4481





SCOPE OF WORK:

The scope of work as per the work order includes the following activities;

- i) Carrying out DGPS mapping of forest stretches i.e. taking DGPS co-ordinates of forest stretches within the corridor in accordance to applicable IS specification & drawings.
- ii) Compartment wise DGPS coordinates of forest area.
- iii) Geo-reference of forest land compartment wise.
- iv) KML file of forest area compartment wise.
- v) Shape file of forest area compartment wise.

METHODOLOGY:

In order to meet the requirements of the scope of work MNEC Consultants Pvt. Ltd. adopted the following methodology;

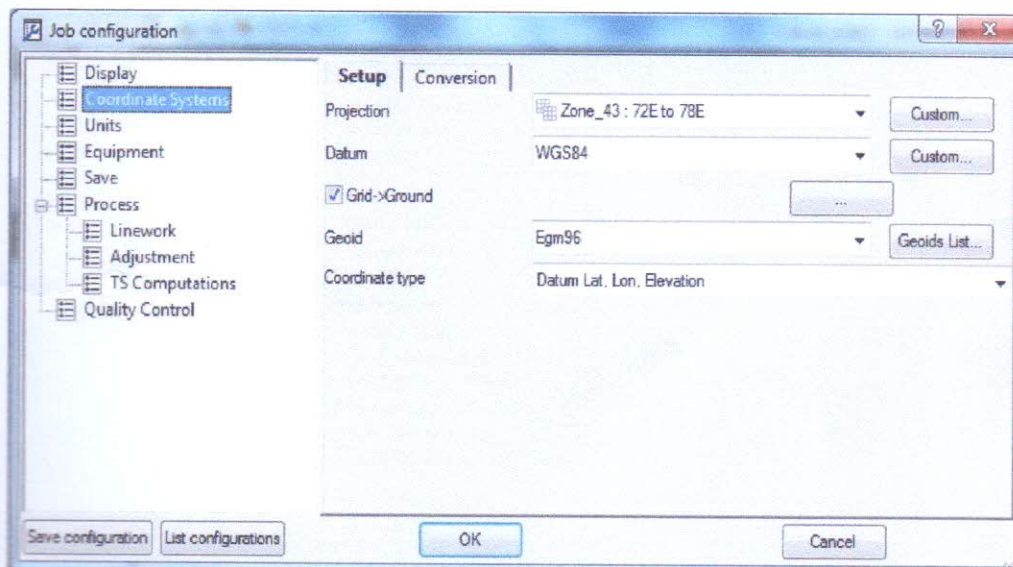
- i) MNECC received in and out coordinates of forest patches along the route alignment from the client.
- ii) MNECC carried out the DGPS survey of those forest patches after conducting site verification.
- iii) The DGPS data was post processed at the office of MNECC.
- iv) A geo-referenced line diagram is prepared and submitted to client.
- v) After approval to the said line diagram, the list of coordinates of the forest compartments and its calculated area after DGPS survey is submitted and a report to this respect is also submitted to the client.



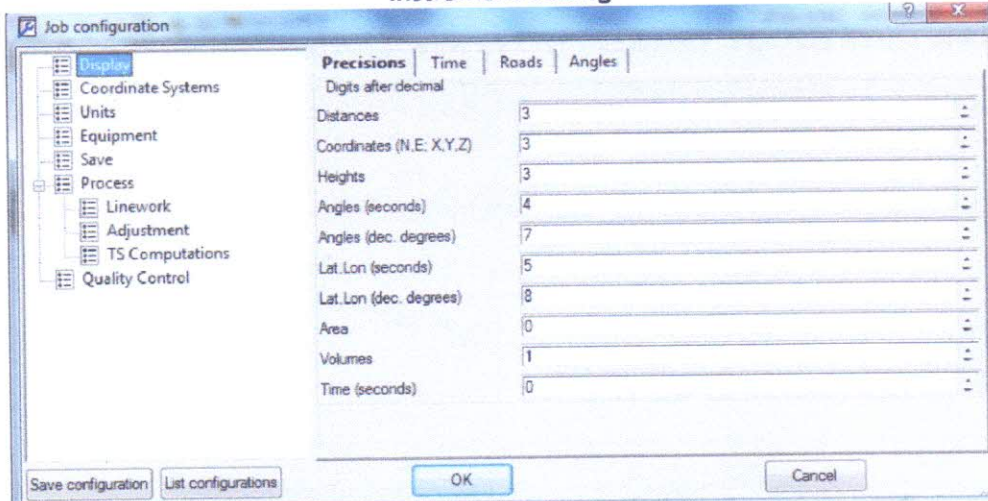
INSTRUMENTS USED & INSTRUMENT SETTINGS :

Following latest DGPS instrument of TOPCON SOKKIA was used for carrying out the DGPS survey.

Sr. No.	Name of Instrument	Model	Make	Qty.
1.	DGPS	GRX-2	TOPCON SOKKIA	4

Sokkia DGPS Software Setting Parameters:

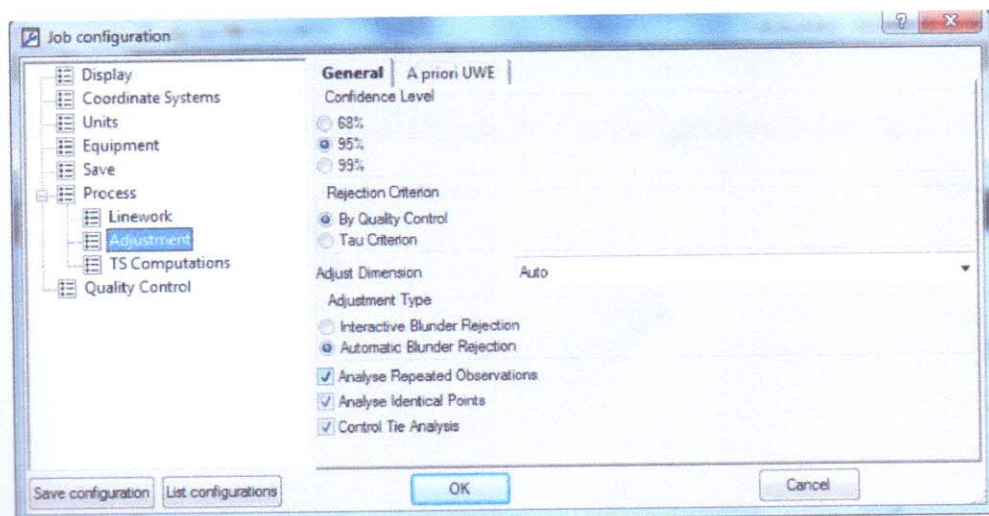
Instrument Setting



Precisions	Time	Roads	Angles
Digits after decimal			
Distances			3
Coordinates (N.E. X,Y,Z)			3
Heights			3
Angles (seconds)			4
Angles (dec. degrees)			7
Lat. Lon (seconds)			5
Lat. Lon (dec. degrees)			8
Area			0
Volumes			1
Time (seconds)			0

Buttons: Save configuration, List configurations, OK, Cancel

Parameters Fed Prior To Observations in GPS



General | A priori UWE

Confidence Level

☐ 68%

☒ 95%

☐ 99%

Rejection Criterion

☒ By Quality Control

☐ Tau Criterion

Adjust Dimension: Auto

Adjustment Type

☐ Interactive Blunder Rejection

☒ Automatic Blunder Rejection

☒ Analyse Repeated Observations

☒ Analyse Identical Points

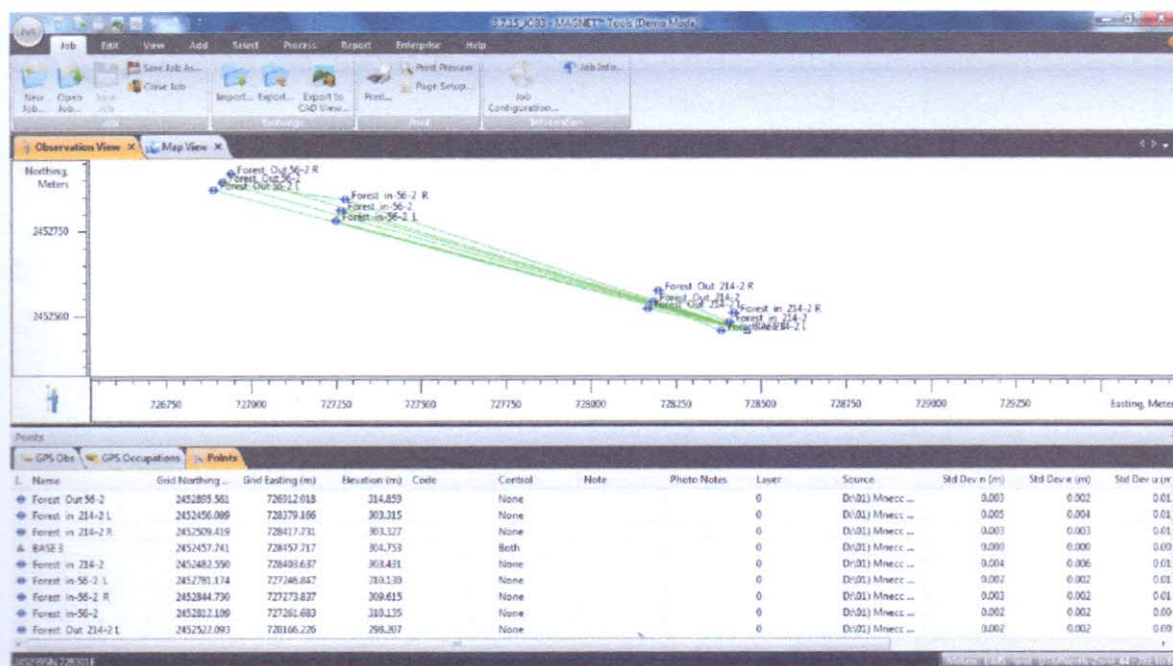
☒ Control Tie Analysis

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Network Adjustment



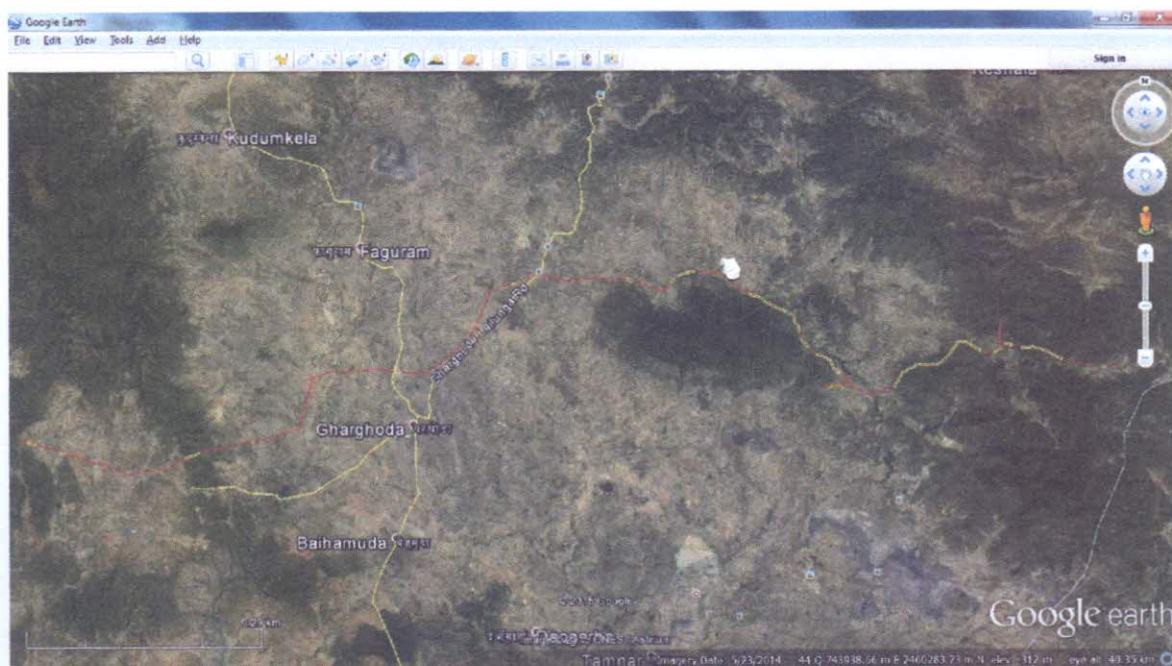
POST PROCESSING OF DGPS DATA WITH MAGNET TOOLS SOFTWARE





BRIEF ABOUT THE PROJECT & AREA:

The entire survey mentioned in this report is carried out in the Raigarh District of Chhattisgarh State. Chhattisgarh State has majority of tribal areas and huge forest patches. The following map depicts the study area;



There are several forest stretches surveyed in this work. There are many types of forest observed during the survey i.e. Reserved, Protected, Orange and Revenue forest. The list of survey dates is enclosed as annexure.

The detail annexure comprising of list of compartments with area, list of compartments with respective coordinates, geo-referenced drawing in PDF as well as CAD formats, photographs, shape files etc. are supplied with this report as annexure.



The key map of the survey area is as under;



KEY MAP ON SOI TOPOSHEET



SOI Toposheet No. 64N of scale 1: 2.5 Lakhs

**ANNEXURE-A**

**COMPUTED AREA STATISTICS SHEER AS PER DGPS SURVEY OF RAIGARH
FOREST DIVISION**

S.N	Village	Comp. No. /Khasara No.	Type of Forest land	Length (mtr)	Width (mtr)	Affected Area (Ha.)
1	Nawapara Tenda	1215	Reserve Forest	525	67	3.5175
2	Raikera	1360	Orange Forest	220	67	1.4740
3	Raikera	1361	Protected Forest	1185	67	7.9395
4	Naya Rampur	1362	Protected Forest	300	67	2.0100
5	Kortimal	864	Protected Forest	520	67	3.4840
6	Nayarampur	718	Reserve Forest	1175	67	7.8725
7	Kharra	724	Reserve Forest	1190	67	7.9730
8	Kharra	728	Protected Forest	405	67	2.7135
9	Sakta	722	Reserve Forest	1155	67	7.7385
10	Sakta	729	Protected Forest	375	67	2.5125
11	Jaridih	783	Reserve Forest	2495	67	16.7165
12		781	Reserve Forest	1180	67	12.5960
13		755	Protective Forest	30	67	0.2010
14	Semijhor	756	Protective Forest	200	67	1.3400
15		757	Protective Forest	275	67	1.8425
16		158	Revenue Forest	80	67	0.5360
17	Chhote Gumada	307	Revenue Forest	80	67	0.5360
18	Kanchanpur	659/2	Revenue Forest	180	67	1.2060
19	Sakta	16/1	Revenue Forest	120	67	0.8040
20		Masahati	Masahati	310	67	2.0770
21	Kafarmar	Orange	Orange Forest	403	67	2.7001
22	Kurru	Dadar	Orange Forest	342	67	2.2914
23	Kurru	23/1	Revenue Forest	460	67	3.0820
Total				13905		93.1635



**ANNEXURE-B****COMPUTED AREA STATISTICS SHEER AS PER DGPS SURVEY OF
DHARAMJAYGARH FOREST DIVISION**

S.N.	Village	Comp. No. /Khasara No.	Type of Forest land	Length (mtr)	Width (mtr)	Affected Area (Ha.)
1	Auranara	517	Reserve Forest	1500	67	10.0500
2	Lamikhar	491	Protected Forest	425	8	0.3400
3	Haldijharia	343	Reserve Forest	1900	67	12.7300
4	Auranara	8/1क	Revenue Forest	80	67	0.5360
5	Lamikhar	46/2क	Revenue Forest	863	59	5.0917
6		56/2क	Revenue Forest	360	67	2.4120
7		214/2क	Revenue Forest	220	67	1.4740
8	Haldijharia	156	Revenue Forest	160	67	1.0720
Total				5508		33.7057



**ANNEXURE-C**

COMPUTED AREA STATISTICS SHEER AS PER DGPS SURVEY OF KORBA
FOREST DIVISION

S. N.	Village	Comp. No. /Khasara No.	Type of Forest land	Length (mtr)	Width (mtr)	Affected Area (Ha.)
1	Keradwari	1171	Protected Forest	1143	67	5.3022
2	Aurai	1485	Orange Forest	930	67	6.231
3	Aurai	536/1	Revenue Forest	110	67	0.737
4	Keradwari	634/1	Revenue Forest	210	67	1.407
5		561/1	Revenue Forest	640	67	4.288
6		621/1d	Revenue Forest	12	67	0.0804
7		251/1	Revenue Forest	16	67	0.1072
8	Kerakachhar	622/1,629/2, 630/1,630/2	Revenue Forest	136	67	0.9112
9	Rampur	14	Revenue Forest	364	67	2.4388
10		125/1	Revenue Forest	84	67	0.5628
11	Barkona	342	Revenue Forest	358	67	2.3986
12		374/1	Revenue Forest	46	67	0.3082
13	Patarapali	204/2, 204/5, 204/6, 204/8, 204/9, 204/11	Revenue Forest	195	67	1.3065
Total				2171		26.5789



**ANNEXURE-D****LIST OF COORDINATES RAIGARH DIVISION**

SR. NO.	COMPARTMENT NO.	TYPE	POINT NO.	EASTING	NORTHING
1	757	PF	1	765343.6481	2457359.0360
			2	765616.4287	2457323.1928
			3	765615.4171	2457289.5377
			4	765615.2888	2457255.7666
			5	765349.1059	2457289.8831
			6	765344.0050	2457325.6128
2	756	PF	1	764947.3909	2456977.6980
			2	764927.7800	2457004.9976
			3	765065.0844	2457121.8391
			4	765100.4658	2457107.8863
			5	765127.2572	2457086.7706
			6	764972.8600	2456957.1140
3	755	PF	1	764368.1404	2457054.8196
			2	764391.2069	2457081.0424
			3	764417.1730	2457064.8488
			4	764397.6514	2457036.6697
			5	764387.7643	2457004.0968
			6	764361.8243	2457019.7501
4	781	RF	1	762853.5747	2456535.8472
			2	762954.6737	2456593.1334
			3	762941.9018	2456628.2543
			4	762929.1300	2456663.3752
			5	763128.7697	2456872.2364
			6	763328.3923	2457163.9168
			7	763500.2440	2457389.9642
			8	763880.4335	2457375.2507
			9	764203.0061	2457191.3395
			10	764391.2069	2457081.0424





Sr. No.	Compartment No.	Type	Point No.	Easting	Northing
			11	764369.1435	2457054.5699
			12	764362.4120	2457020.9759
			13	764167.9040	2457130.3299
			14	763861.2796	2457311.2125
			15	763529.3097	2457329.8810
			16	763384.1089	2457125.1472
			17	763180.9499	2456829.8615
5	783	RF	1	760944.7553	2455583.8355
			2	760991.2140	2455600.0820
			3	761264.9251	2456042.5546
			4	761342.2354	2456164.6890
			5	761662.9698	2456348.0111
			6	761939.9115	2456503.4424
			7	762300.0843	2456500.4408
			8	762632.3593	2456499.8820
			9	762637.4849	2456466.3390
			10	762642.6122	2456432.7990
			11	762872.1153	2456506.5060
			12	762853.5747	2456535.8470
			13	762835.2977	2456564.9990
			14	762954.6737	2456593.1330
			15	762941.9018	2456628.2540
			16	761013.4650	2455572.3740
			17	761035.7170	2455544.6660
			18	760948.3799	2455549.6140
			19	760938.1955	2455510.5633
6	16/2	REV	1	758786.2624	2456133.1612
			2	758913.9047	2456140.1102
			3	758896.0681	2456103.0297
			4	758874.1773	2456071.7111



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Report On DGPS Survey Of Forest Stretches For 765KV D/C Jharsuguda-Dharamjaygarh (Korba) TL-2 CKT-3&4

SR. NO.	COMPARTMENT NO.	TYPE	POINT NO.	EASTING	NORTHING
7	722	RF	5	758776.4666	2456065.5287
			6	758782.3590	2456098.7927
			1	757996.1404	2456835.3765
			2	758201.2689	2456767.1022
			3	758549.1396	2456584.7214
			4	758672.8757	2456290.9648
			5	758778.1936	2456132.5222
			6	758786.2624	2456133.1612
			7	758782.3590	2456098.7927
			8	758776.4666	2456065.5287
			9	758743.9249	2456063.7571
			10	758613.6043	2456259.0818
			11	758497.2002	2456536.8887
			12	758172.2836	2456706.1981
8	729	PF	13	757939.4614	2456783.6815
			14	757964.261	2456809.375
			1	758533.39	245585.08
			2	758755.49	2455648.88
			3	758910.27	2455630.54
			4	758904.51	2455597.48
			5	758899.62	2455565.68
			6	758761.15	2455580.74
9	728	PF	7	758546.62	2455518.15
			8	758540.26	2455551.19
			1	757419.4349	2457409.5379
			2	757441.0732	2457350.8229
			3	757647.4797	2457125.8651
			4	757655.2440	2457116.9680
			5	757627.7871	2457097.3444
			6	757601.1898	2457072.4152





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SR. NO.	COMPARTMENT NO.	TYPE	POINT NO.	EASTING	NORTHING
			7	757587.8460	2457089.5016
			8	757384.0528	2457312.5206
			9	757355.9288	2457385.6830
			10	757383.0887	2457410.8095
10	724	PF	1	756611.8455	2458526.7113
			2	756614.3050	2458562.3820
			3	756742.7806	2458503.3977
			4	757091.3530	2458320.6609
			5	757127.8048	2458088.5350
			6	757247.0116	2457971.2414
			7	757309.7620	2457720.7260
			8	757248.5400	2457687.9920
			9	757279.3360	2457702.5220
			10	757189.2749	2457936.9183
			11	757068.1948	2458057.7092
			12	757030.7317	2458276.8549
			13	756712.9584	2458443.5011
			14	756604.7065	2458492.5071
11	718	PF	1	755550.3714	2459085.6879
			2	755738.2490	2459034.4315
			3	755902.1772	2458885.5476
			4	756235.3074	2458734.3503
			5	756479.3372	2458623.2281
			6	756628.1991	2458555.3585
			7	756625.7752	2458520.2038
			8	756618.4922	2458484.5969
			9	756463.8676	2458555.9311
			10	756207.3492	2458673.3929
			11	755865.2743	2458829.3992





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SR. NO.	COMPARTMENT NO.	TYPE	POINT NO.	EASTING	NORTHING
			12	755705.5016	2458974.8727
			13	755537.6122	2459018.5980
			14	755540.7850	2459053.0600
12	1362	PF	1	755275.5433	2459158.4042
			2	755371.1310	2459132.7380
			3	755550.3714	2459085.6879
			4	755540.7850	2459053.0600
			5	755537.6122	2459018.5980
			6	755381.5891	2459060.1775
			7	755242.3730	2459097.8993
			8	755261.0588	2459128.6306
13	1361	PF	1	752193.8386	2459574.3581
			2	752202.9254	2459589.2055
			3	752399.8713	2459808.9271
			4	752711.1534	2459951.2641
			5	753001.6741	2460000.2530
			6	753245.9541	2460016.2716
			7	753253.1225	2459983.1743
			8	753260.3135	2459950.3383
			9	753009.8657	2459933.5663
			10	752730.1635	2459886.7394
			11	752442.5304	2459756.8169
			12	752256.1446	2459549.9937
			13	752245.8451	2459529.2196
			14	752219.4082	2459550.0804
14	1360	OA	1	750497.9924	2459651.6210
			2	750703.9496	2459605.7167





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Sr. No.	Compartment No.	Type	Point No.	Easting	Northing
			3	750669.8953	2459544.9342
			4	750458.9596	2459593.2280
			5	750477.8503	2459623.2990
			6	750686.9784	2459575.513
15	864	PF	1	745915.4532	2459367.3565
			2	745901.4108	2459397.6480
			3	746169.0883	2459458.2938
			4	746427.5424	2459517.1416
			5	746423.1038	2459484.1270
			6	746423.0201	2459450.6831
			7	746182.9835	2459395.4513
			8	745932.5882	2459338.7777
16	659/2	REV	1	741402.2529	2455913.2915
			2	741490.8283	2455904.6717
			3	741580.8778	2455904.3429
			4	741577.5830	2455869.9087
			5	741577.0500	2455835.9009
			6	741483.3747	2455837.2043
			7	741383.3292	2455846.9852
			8	741394.3094	2455881.2226
17	307	REV	1	735735.6226	2453086.4218
			2	735810.5592	2453103.9496
			3	735817.7937	2453071.2376
			4	735819.3881	2453037.2063
			5	735752.7800	2453021.6266
			6	735743.4764	2453048.5150
18	158	REV	1	733631.3450	2452571.5798
			2	733711.0874	2452603.5920
			3	733724.2411	2452572.3378
			4	733744.8016	2452544.3433
			5	733658.9620	2452511.4286



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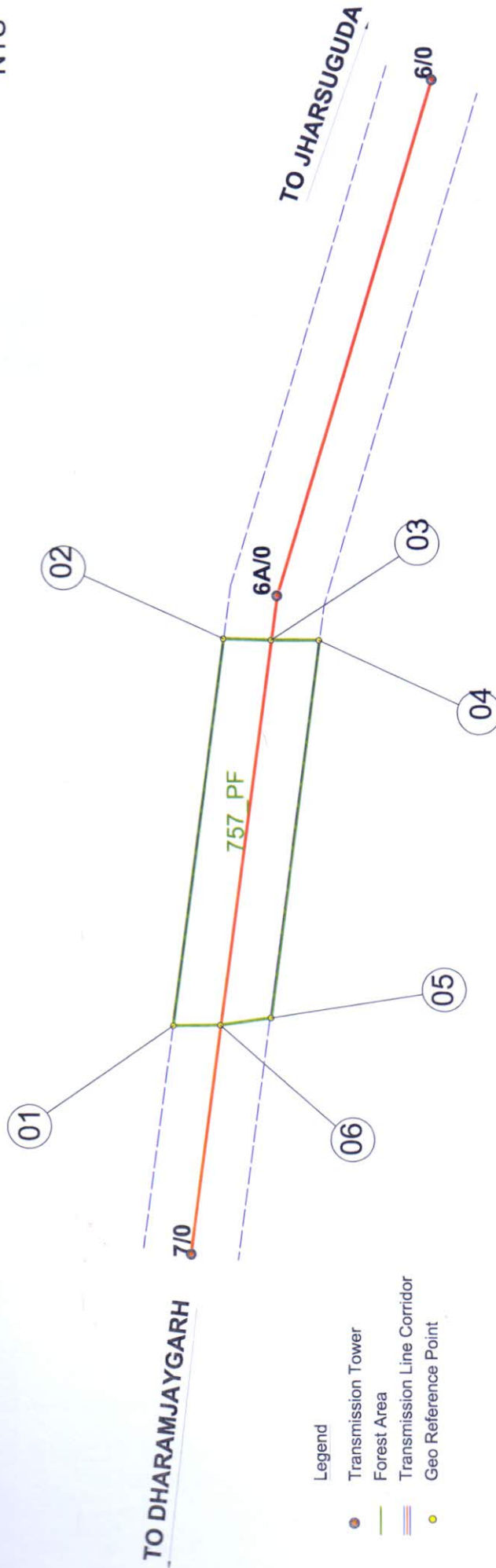
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SR. NO.	COMPARTMENT NO.	TYPE	POINT NO.	EASTING	NORTHING
			6	733647.0820	2452543.1610
19	1215	RF	1	733155.0151	2452388.9655
			2	733480.5999	2452514.7933
			3	733631.3450	2452571.5798
			4	733658.8547	2452511.7085
			5	733509.3392	2452454.8197
			6	733176.2931	2452325.1137
			7	733160.5069	2452357.9874
			8	733647.216	2452542.803



MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR 765 KV D/C JHARSUGUDA • DHARAMJAYGARH (KORBA) TL-II (CKT- 3 & 4) Village - Semijhor , Dist.- Raigarh, State - Chhattisgarh

Compartment No. - PF 757



Legend

- Transmission Tower
- Forest Area
- Transmission Line Corridor
- Geo Reference Point

Protected Forest DGPS Coordinate (WGS84)

Point No.	Easting (IN UTM)	Northing (IN UTM)
01	765343.6481	2457359.0360
02	765616.4287	2457323.1928
03	765615.4171	2457289.5377
04	765615.2888	2457255.7666
05	765349.1059	2457289.8831
06	765344.0050	2457325.6128

DGPS Coordinate (WGS84) AP 6/0 TO AP 7/0

AP No.	Easting (IN UTM)	Northing (IN UTM)
AP 6/0	766008.6306	2457176.3507
AP 6A/0	765646.8795	2457285.4036
AP 7/0	765183.0657	2457346.3485



Checked by: *[Signature]*

Approved by: *[Signature]*

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Besides Alankar Cinema, Dharampeth, Nagpur-10

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E-mail : info@mnecc.com

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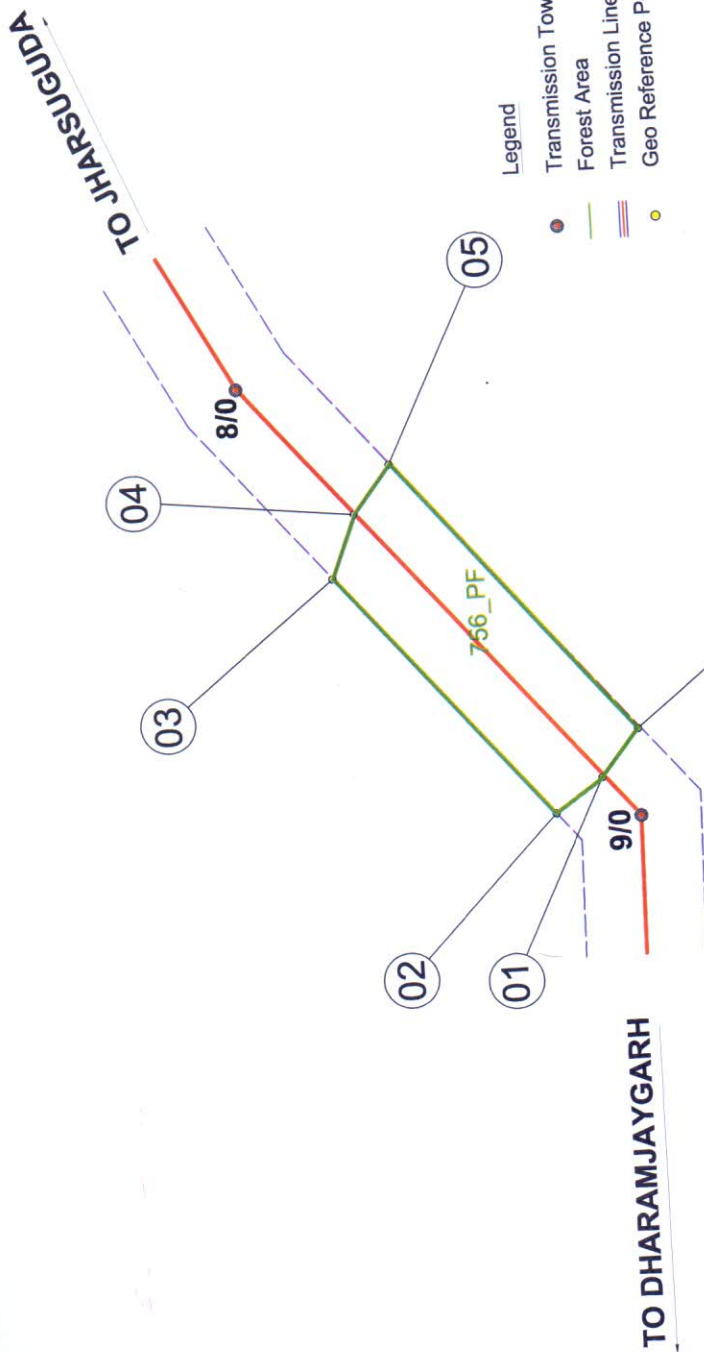
T&D Business G-55,

MIDC Butibori,

Nagpur-441108

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR 765 KV D/C JHARSUGUDA • DHARAMJAYGARH (KORBA) TL-II (CKT-3 & 4) Village - Semijhor , Dist.- Raigarh, State - Chhattisgarh Compartment No. 756 PF

NTS



Protected Forest

DGPS Coordinate (WGS84)

Point No.	Easting (IN UTM)	Northing (IN UTM)
01	764947.3909	2456977.6980
02	764927.7800	2457004.9976
03	765065.0844	2457121.8391
04	765100.4658	2457107.8863
05	765127.2572	2457086.7706
06	764972.8600	2456957.1140

DGPS Coordinate (WGS84)

AP 7/0 TO AP 10/0

AP No.	Easting (IN UTM)	Northing (IN UTM)
AP 7/0	765180.2069	2457346.7915
AP 8/0	765173.0566	2457169.7322

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Approved by: *[Signature]*

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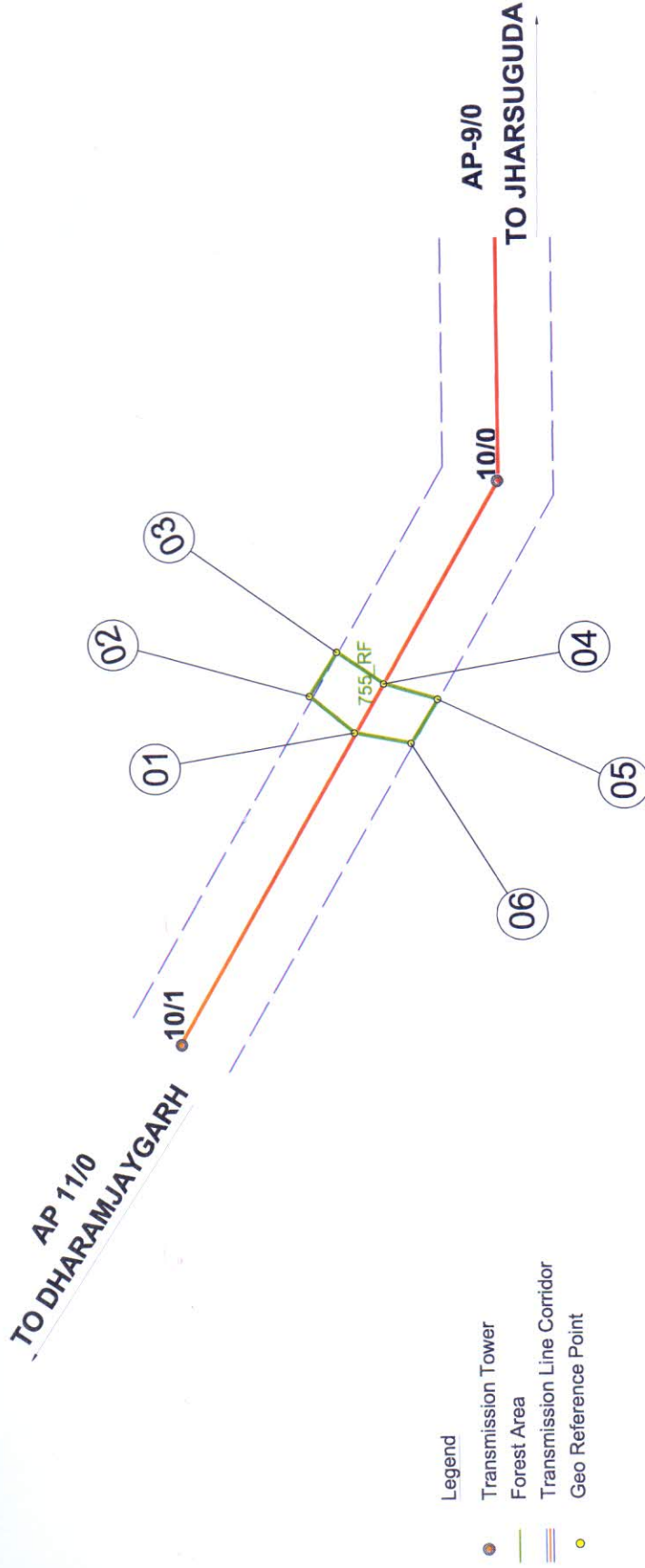
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 Besides Alankar Cinema, Dharampeth, Nagpur-10
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 E-mail : info@mneccl.com

Prepared by:

GAMMON India Limited,
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 MIDC Butibori,
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MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR 765 KV D/C JHARSUGUDA • DHARAMJAYGARH (KORBA) TL-II (CKT- 3 & 4) Village - Semijhor , Dist.- Raigarh, State - Chhattisgarh

Compartment No.- RF 755



Reserved Forest
DGPS Coordinate (WGS84)

DGPS Coordinate (WGS84)
AP10/0 TO AP 10/1

Point No.	Easting (IN UTM)	Northing (IN UTM)
01	764368.1404	2457054.8196
02	764391.2069	2457081.0424
03	764417.1730	2457064.8488
04	764397.6514	2457036.6697
05	764387.7643	2457004.0968
06	764361.8243	2457019.7501

AP No.	Easting (IN UTM)	Northing (IN UTM)
AP 10/0	764519.5400	2456965.8510
AP 10/1	764180.4011	2457162.9190



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Approved by: *[Signature]*

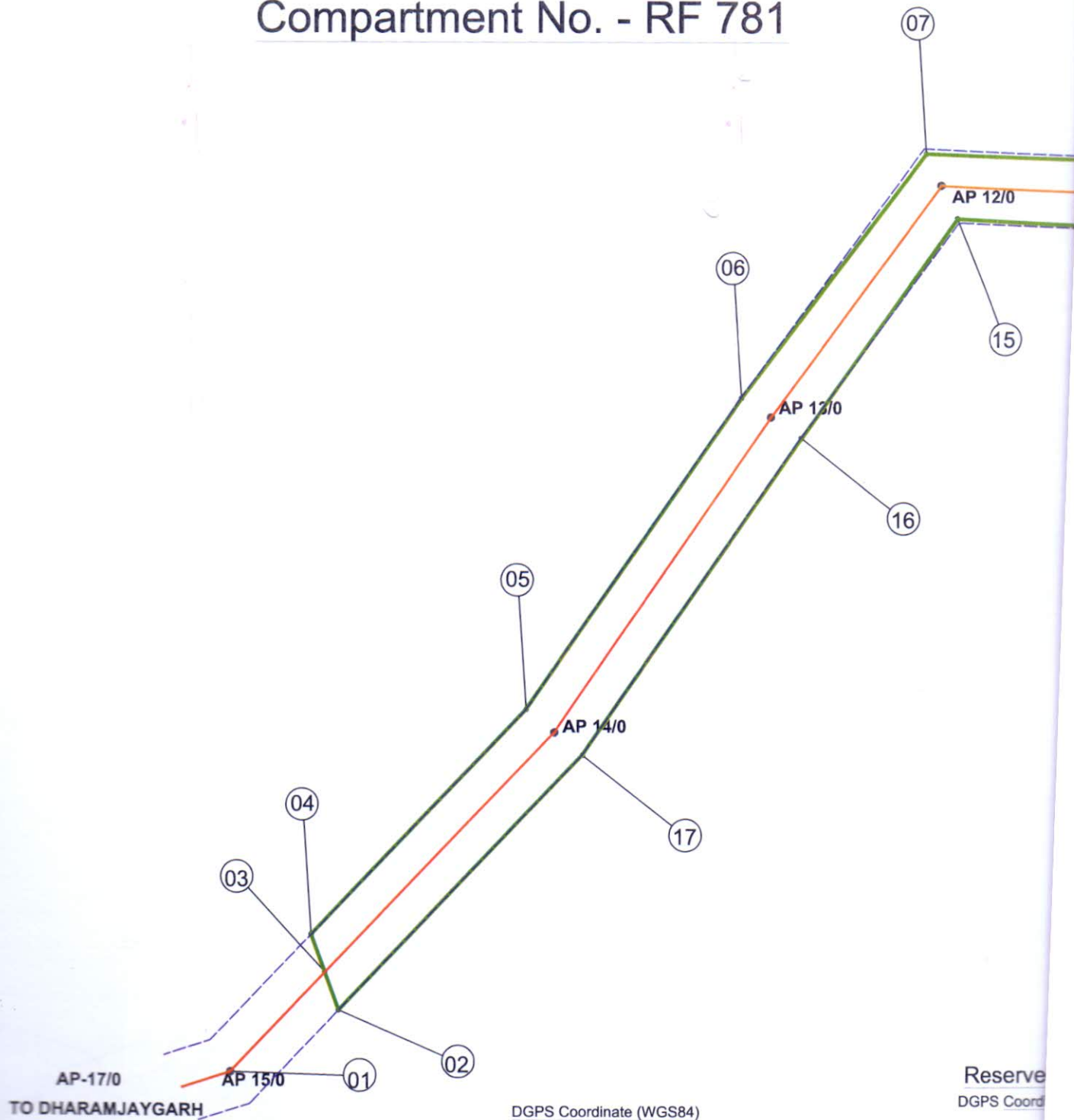
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MIDC Butibori,
Nagpur-441108

MAP SHOWING GEO REFERENCE TRANSMISSION

765 KV D/C JHARSUGUDA • DHARAMJAYGARH (K

Village - Semijhor/Jarhidia , Dist.- Raigarh,
Compartment No. - RF 781



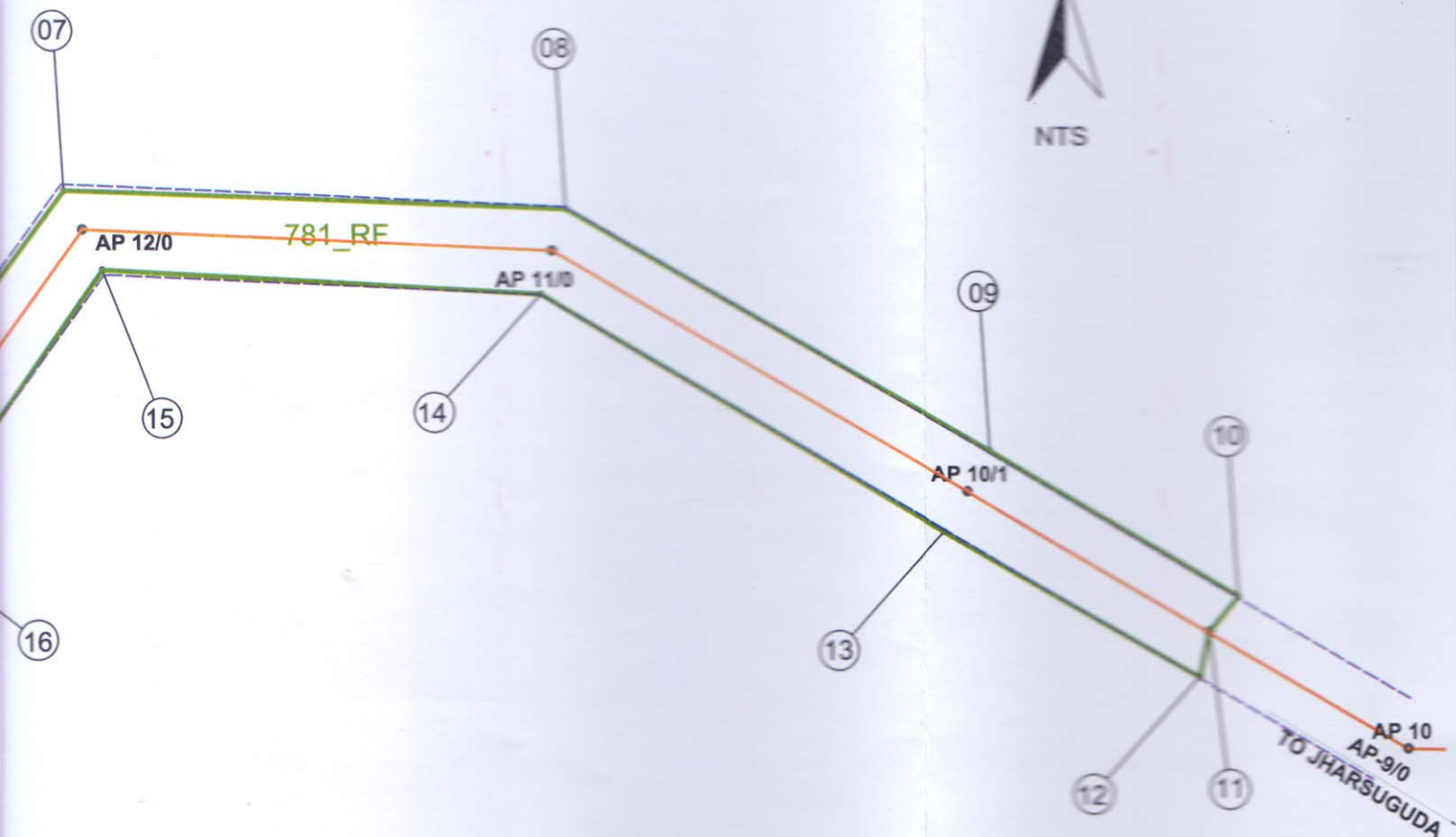
DGPS Coordinate (WGS84)
AP10 TO AP 15/0

AP No.	Easting (IN UTM)	Easting (IN UTM)
AP 10/0	764520.0929	2456965.0610
AP 10/1	764185.6973	2457160.754
AP 11/0	763869.9464	2457344.002
AP 12/0	763514.2628	2457360.557
AP 13/0	763356.9116	2457146.156
AP 14/0	763153.4885	2456849.614
AP 15/0	762853.5747	2456535.847

Reserve
DGPS Coord

Point No.	Easting (IN UTM)	Northing (IN UTM)
01	762853.5747	2456535.8472
02	762954.6737	2456593.1334
03	762941.9018	2456628.2543
04	762929.1300	2456663.3752
05	763128.7697	2456872.2364
06	763328.3923	2457163.9168
07	763500.2440	2457389.9642
08	763880.4335	2457375.2507
09	764203.0061	2457191.3395
10	764391.2069	2457081.0424

TRANSMISSION LINE CORRIDOR BAGHARH (KORBA) TL-II (CKT- 3 & 4) Raigarh, State - Chhattisgarh



Legend

- Transmission Tower
- Forest Area
- Transmission Line Corridor
- Gas Reference Point

Reserved Forest

DGPS Coordinate (WGS84)

(IN UTM) Northing	(IN UTM) Easting
2453.5747	2456535.8472
2454.6737	2456593.1334
2454.9018	2456628.2543
2459.1300	2456663.3752
2458.7697	2456872.2364
2458.3923	2457163.9168
2450.2440	2457389.9642
2458.4335	2457375.2507
2453.0061	2457191.3395
2451.2069	2457081.0424

Point No.	Easting (IN UTM)	Northing (IN UTM)
11	764369.1435	2457054.9888
12	764362.4120	2457025.5759
13	764167.9040	2457130.3299
14	763861.2796	2457311.2125
15	763529.3097	2457325.8910
16	763384.1089	2457125.1472
17	763180.9499	2456925.8915

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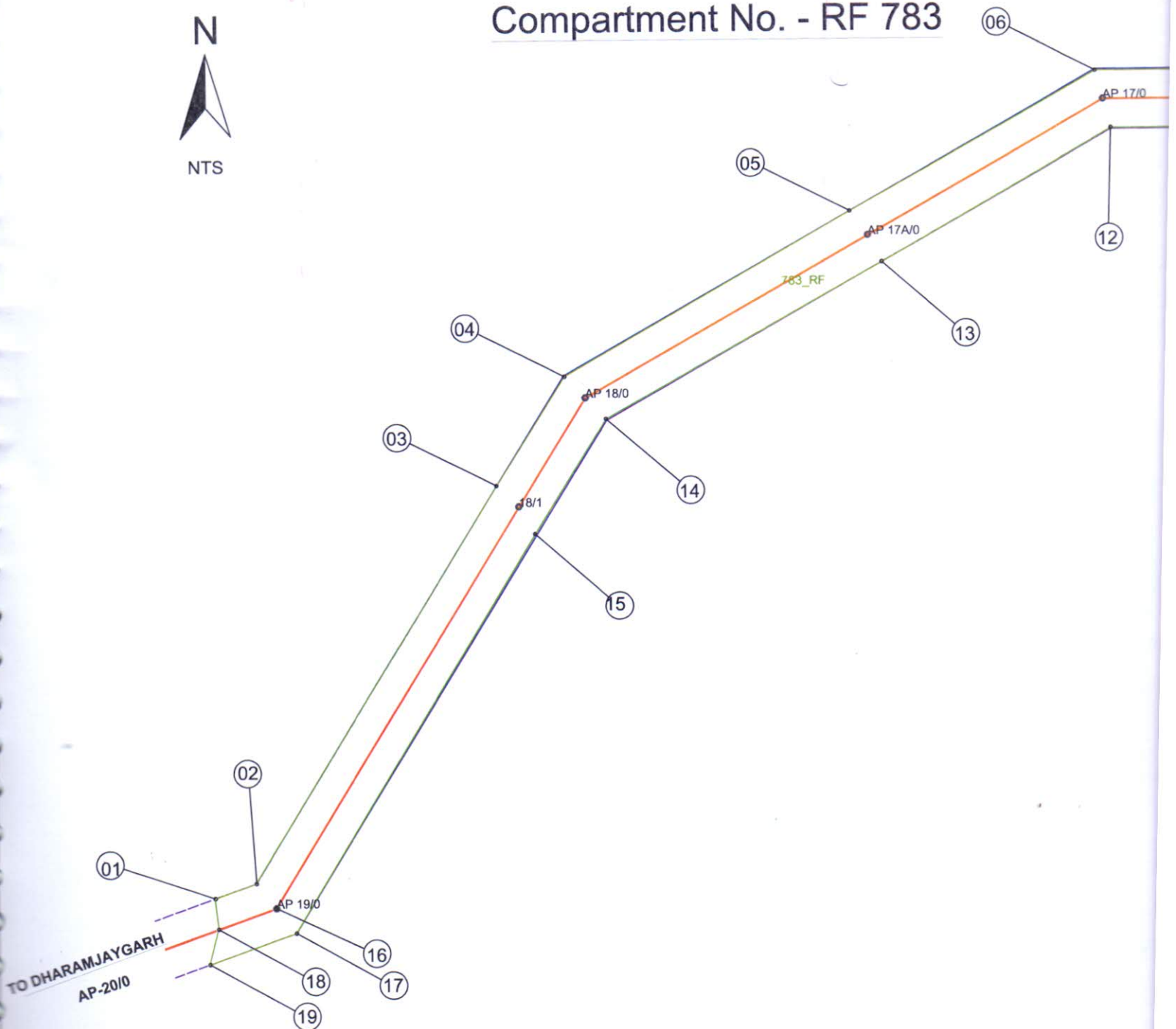
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T&D Business - G-55,

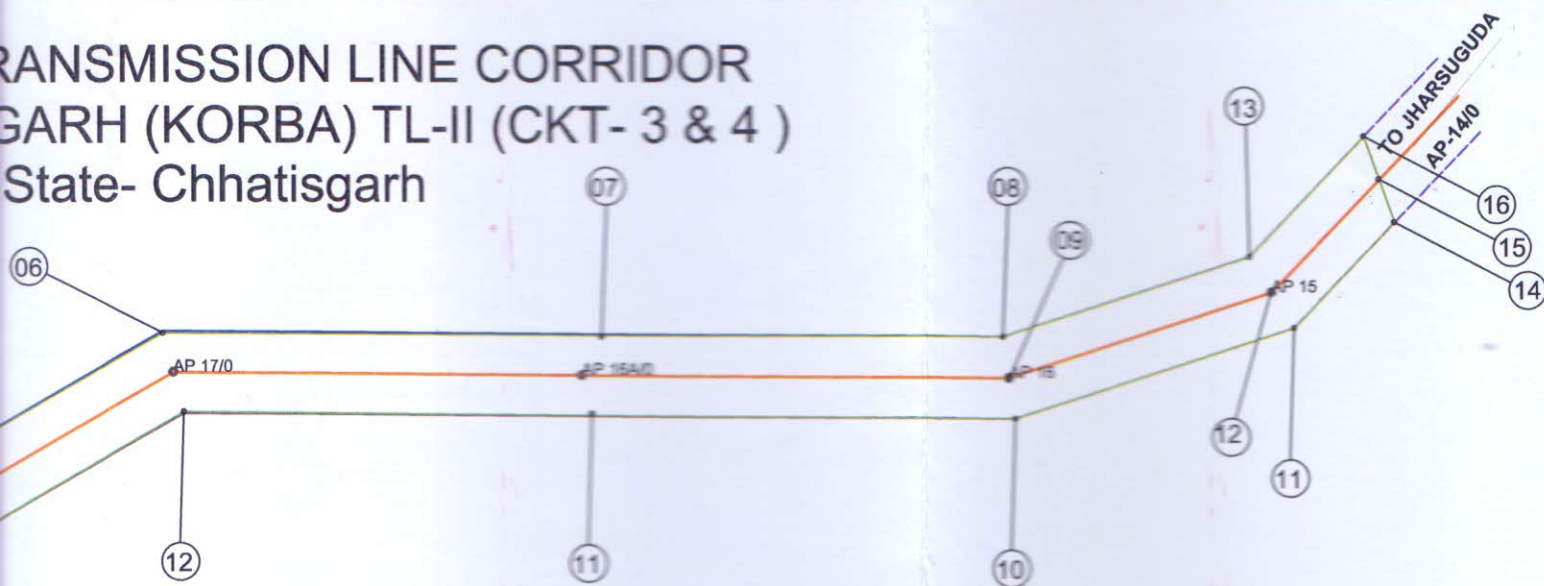
MDC Buttor,

Nagpur-441108

MAP SHOWING GEO REFERENCE TRANSMISSION
765 KV D/C JHARSUGUDA • DHARAMJAYGARH (KOR)
Village - Jarhidia, Dist.- Raigarh, State- Chha
Compartment No. - RF 783



TRANSMISSION LINE CORRIDOR RAIGARH (KORBA) TL-II (CKT- 3 & 4) State- Chhatisgarh



Reserved Forest

DGPS Coordinate (WGS84)

Point No.	Easting	Northing
01	762844.7553	2455583.8355
02	762891.2140	2455600.0820
03	761254.8251	2456042.5546
04	761342.2354	2456184.6890
05	761882.9598	2456348.0111
06	761925.9115	2456503.4424
07	762300.0843	2456500.4408
08	762502.3583	2456499.882
09	762507.4849	2456466.339
10	762542.9122	2456432.799
11	762572.1153	2456506.506
12	762853.5747	2456535.847
13	762805.2577	2456564.999
14	762854.5737	2456593.133
15	762841.9018	2456628.254
16	761013.4850	2455572.3740
17	761025.7170	2455544.6660
18	762848.3799	2455549.6140
19	762838.1955	2455510.5633

DGPS Coordinate (WGS84)

AP 14/0 TO AP25/0

AP NO.	Easting	Northing
AP 15	762853.5747	2456535.8472
AP 16	762837.4858	2456499.3408
AP 16/A	762283.9573	2456485.1298
AP 17/0	761948.4765	2456471.5645
AP 17A/0	761683.3075	2456321.0328
AP 18/0	761365.2771	2456140.5746
AP 18/A	761289.7791	2456076.0752
AP 19/0	761013.5197	2455972.3548

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Approved by: *[Signature]*

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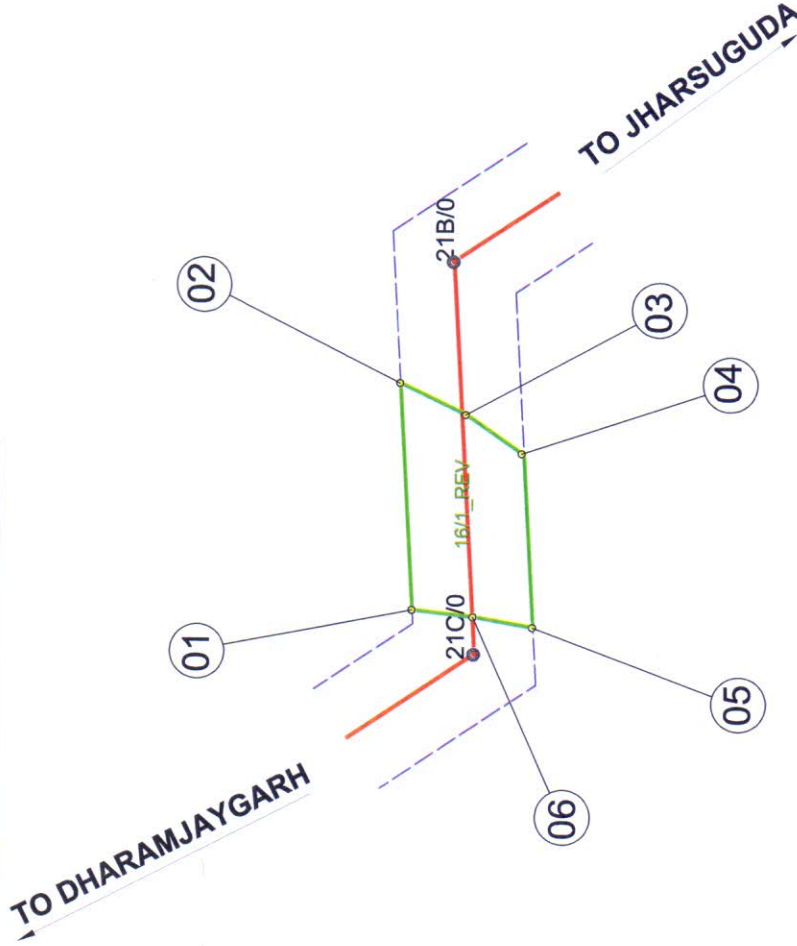
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MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR
765 KV D/C JHARSUGUDA • DHARAMJAYGARH (KORBA) TL-II (CKT- 3 & 4)
Village - Sakta , Dist.- Raigarh, State - Chhattisgarh
Compartment No. - 16/1 REV



Legend

- Transmission Tower
- Forest Area
- Transmission Line Corridor
- Geo Reference Point



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E-mail : info@mnecc.com

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MIDC Butibori,

Nagpur-441108

DGPS Coordinate (WGS84)

AP21B TO AP 21C/0

AP No.	Easting (IN UTM)	Northing (IN UTM)
AP 21B/0	758981.8207	2456110.2580
AP 21C/0	758761.1855	2456098.2464

Revenue Forest

DGPS Coordinate (WGS84)

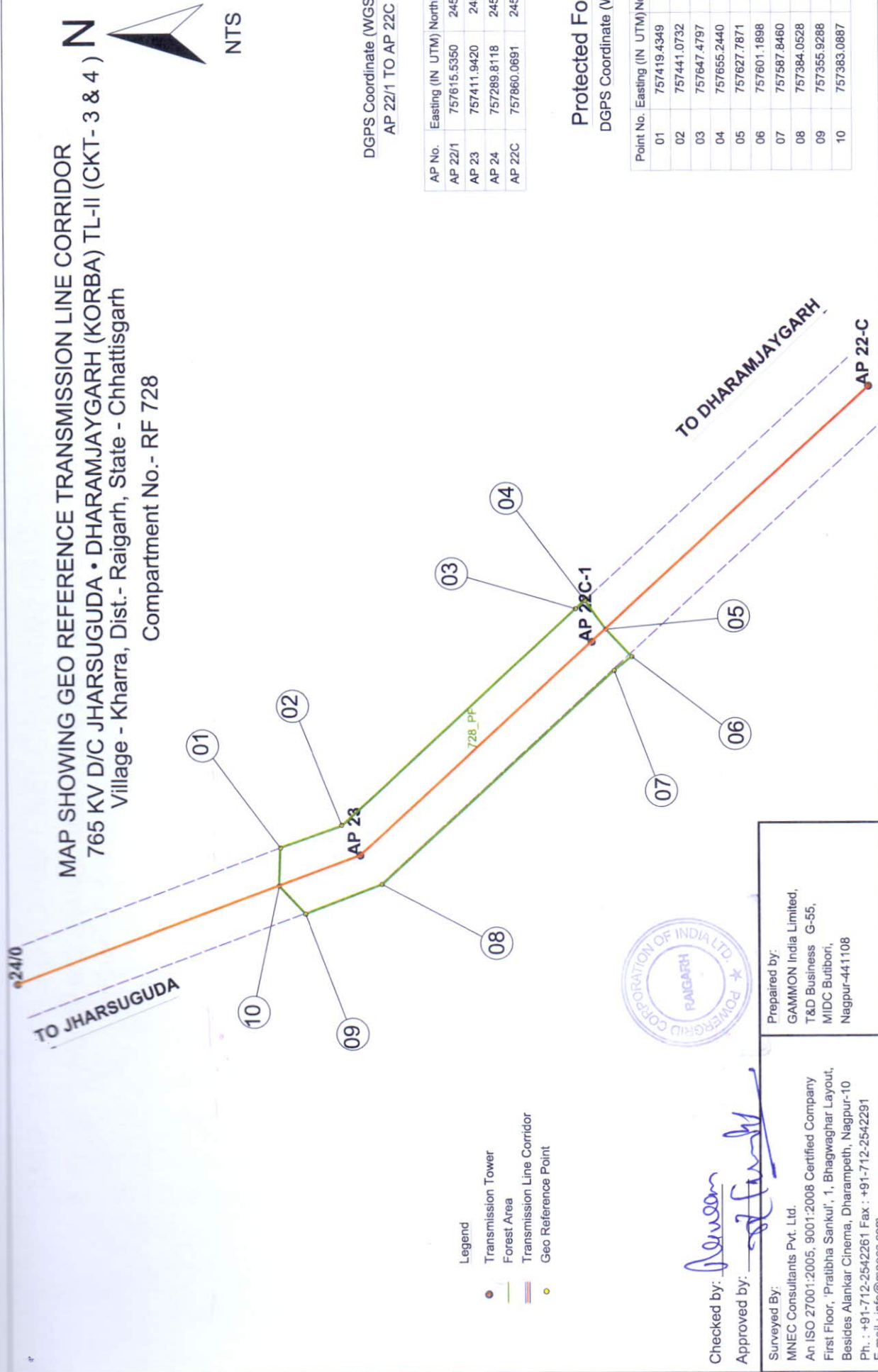
Point No.	Easting (IN UTM)	Northing (IN UTM)
01	758786.2624	2456133.1612
02	758913.9047	2456140.1102
03	758896.0681	2456103.0297
04	758874.1773	2456071.7111
05	758776.4666	2456065.5287
06	758782.3590	2456098.7927

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

765 KV D/C JHARSUGUDA • DHARAMJAYGARH (KORBA) TL-II (CKT-3 & 4)

Village - Kharra, Dist.- Raigarh, State - Chhattisgarh

Compartment No.- RF 728



DGPS Coordinate (WGS84)
AP 22/1 TO AP 22C

AP No.	Easting (IN UTM)	Northing (IN UTM)
AP 22/1	757615.5350	2457110.7096
AP 23	757411.9420	2457333.0309
AP 24	757289.8118	2457662.3588
AP 22C	757860.0691	2456843.9373

Protected Forest
DGPS Coordinate (WGS84)

Point No.	Easting (IN UTM)	Northing (IN UTM)
01	757419.4349	2457409.5379
02	757441.0732	2457350.8229
03	757647.4797	2457125.8651
04	757655.2440	2457116.9680
05	757627.7871	2457097.3444
06	757601.1898	2457072.4152
07	757587.8480	2457089.5016
08	757384.0528	2457312.5206
09	757355.9288	2457385.6830
10	757383.0887	2457410.8095

TO DHARAMJAYGARH

TO JHARSUGUDA

Legend

- Transmission Tower
- Forest Area
- Transmission Line Corridor
- Geo Reference Point



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Nagpur-441108

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

765 KV D/C JHARSUGUDA • DHARAMJAYGARH (KORBA) TL-II (CKT- 3 & 4)

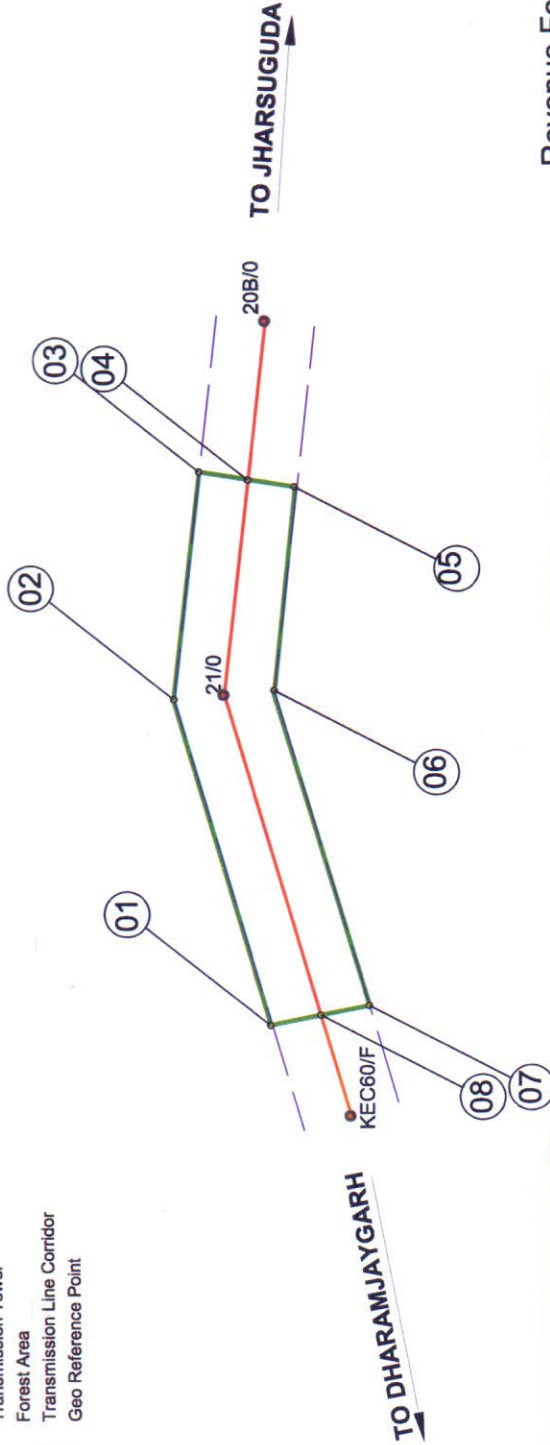
Village - Sakta, Dist.- Raigarh, State - Chhattisgarh

Compartment No. 729 PF

SCALE - 1:4000

Legend

- Transmission Tower
- Forest Area
- Transmission Line Corridor
- Geo Reference Point



SCALE - 1:4000
0.25 0.50 0.75 01 2 3 Kilometers

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Approved by:

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MDC Butburi,
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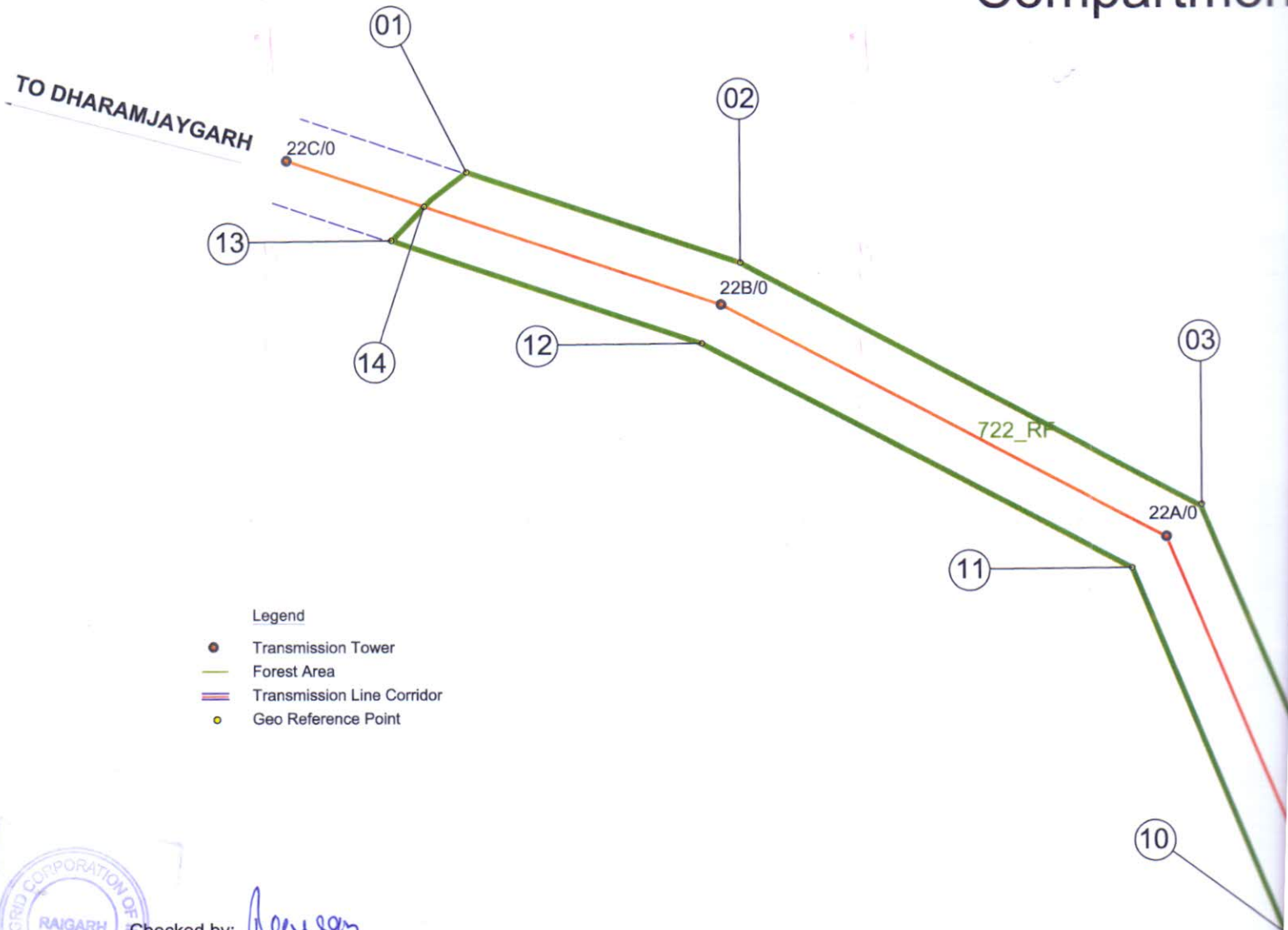
DGPS Coordinate (WGS84)
AP20/B TO KEC60/F

AP No.	Easting (IN UTM)	Northing (IN UTM)
AP 20/B	759007.56	2455594.87
AP 21/O	758758.15	2455615.05
KEC 60/F	758471.39	2455531.10

Revenue Forest
DGPS Coordinate (WGS84)

Point No.	Easting (IN UTM)	Northing (IN UTM)
01	758533.3970	2455585.0770
02	758755.4866	2455648.8832
03	758910.2717	2455630.5366
04	758904.5125	2455597.4848
05	758899.6180	2455565.6823
06	758761.1514	2455580.7428
07	758546.6195	2455518.1536
08	758540.2594	2455551.1947

MAP SHOWING GEO REFERENCE 765 KV D/C JHARSUGUDA • DHARAMJAYGARH Village - Sakta/ Kharra , Dist.- Compartment



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Approved by: *[Signature]*

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REFERENCE TRANSMISSION LINE CORRIDOR HARAMJAYGARH (KORBA) TL-II (CKT- 3 & 4) Barra , Dist.- Raigarh, State - Chhattisgarh Compartment No. - RF 722



NTS

Reserved Forest

DGPS Coordinate (WGS84)

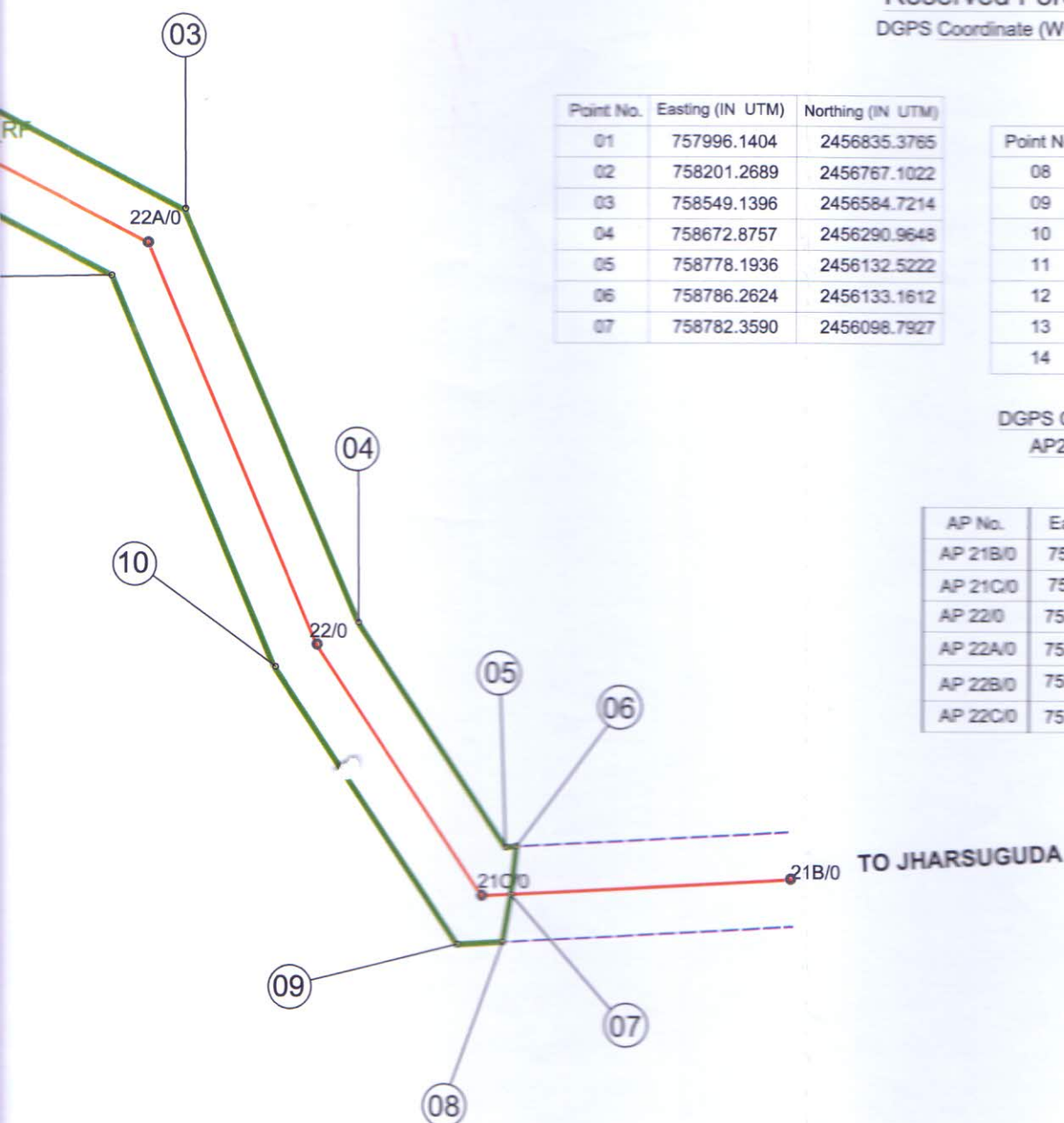
Point No.	Easting (IN UTM)	Northing (IN UTM)
01	757996.1404	2456835.3765
02	758201.2689	2456767.1022
03	758549.1396	2456584.7214
04	758672.8757	2456290.9648
05	758778.1936	2456132.5222
06	758786.2624	2456133.1612
07	758782.3590	2456098.7927

Point No.	Easting (IN UTM)	Northing (IN UTM)
08	758776.4666	2456065.5287
09	758743.9249	2456063.7571
10	758613.6043	2456259.0818
11	758497.2002	2456536.8887
12	758172.2836	2456706.1981
13	757939.4614	2456783.6815
14	757964.2610	2456809.3746

DGPS Coordinate (WGS84)

AP21B/0 TO AP 22C/0

AP No.	Easting	Northing
AP 21B/0	758981.8207	2456110.2580
AP 21C/0	758761.1855	2456098.2464
AP 22/0	758643.2400	2456275.0233
AP 22A/0	758522.9563	2456560.5837
AP 22B/0	758186.8165	2456735.5480
AP 22C/0	757860.0691	2456843.9373



MAP SHOWING GEO REFERENCE

765 KV D/C JHARSUGUDA • DHARA

Village - Kharra/Nayara

Comp

AP 27A/2
TO DHARAMJAYGARH

27A/1

27A/0

27/0

724 RF

26/0

Legend

- Transmission Tower
- Forest Area
- Transmission Line Corridor
- Geo Reference Point



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Approved by: *[Signature]*

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08

REFERENCE TRANSMISSION LINE CORRIDOR

DHARAMJAYGARH (KORBA) TL-II (CKT- 3 & 4)

Mayarampur , Dist.- Raigarh, State - Chhattisgarh

Compartment No.- RF 724



DGPS Coordinate (WGS84)
AP24/0 TO AP 27A/1

AP No.	Easting (IN UTM)	Northing (IN UTM)
AP 24/0	757289.8118	2457662.3588
AP 25/0	757218.2817	2457953.5963
AP 26/0	757098.1456	2458073.1786
AP 27/0	757062.0567	2458298.2240
AP 27A/0	756728.6143	2458473.7344
AP 27A/1	756481.5876	2458594.8330

Reserved Forest
DGPS Coordinate (WGS84)

Point No.	Easting (IN UTM)	Northing (IN UTM)
01	756611.8455	2458525.7113
02	756614.3050	2458562.3820
03	756742.7806	2458533.3677
04	757091.3530	2458320.8809
05	757127.8048	2458088.5350
06	757247.0116	2457871.2414
07	757309.7620	2457728.7280

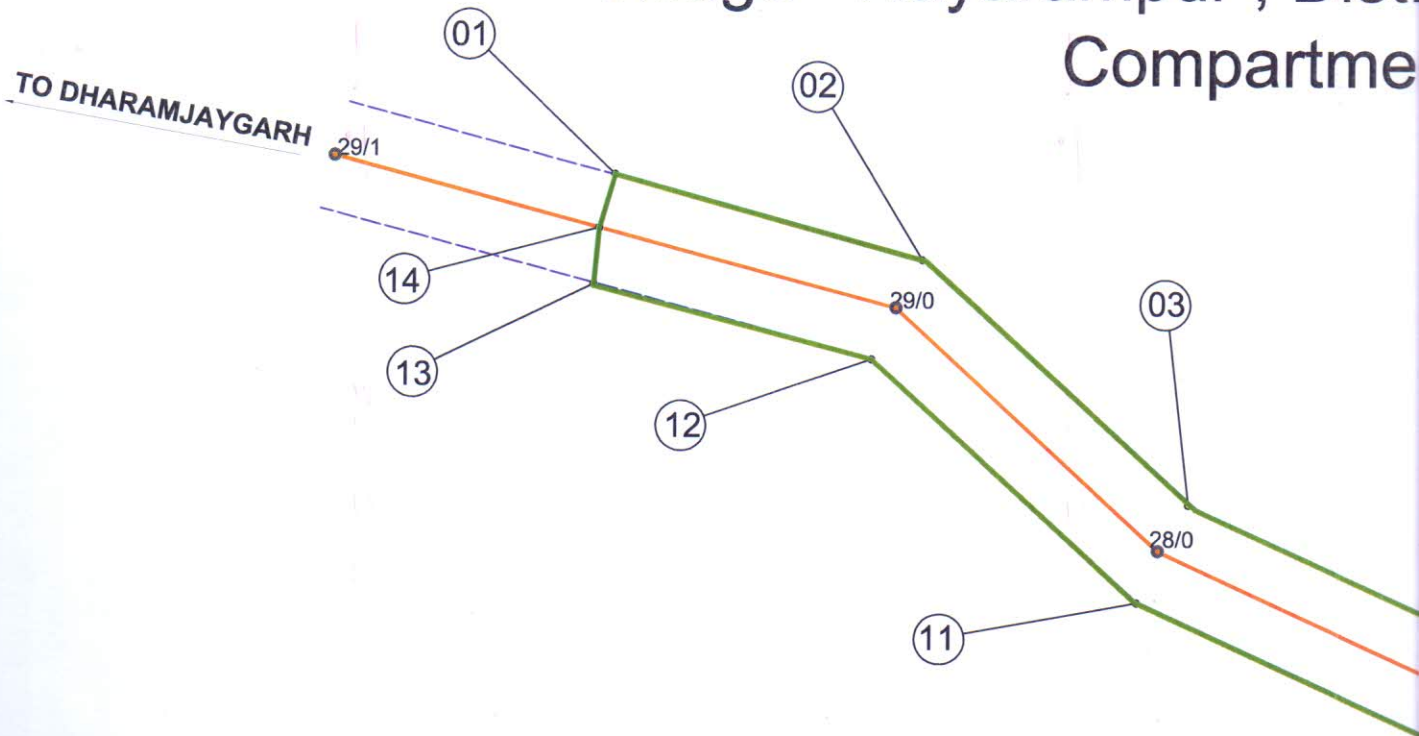
Point No.	Easting (IN UTM)	Northing (IN UTM)
08	757248.5400	2457687.9920
09	757279.3360	2457702.5220
10	757189.2749	2457936.9183
11	757068.1948	2458057.7092
12	757030.7317	2458276.8549
13	756712.9584	2458443.5011
14	756604.7065	2458492.5071

MAP SHOWING GEO REFERENCE

765 KV D/C JHARSUGUDA • DHARA

Village - Nayarampur , Dist.

Compartment



Legend

- Transmission Tower
- Forest Area
- Transmission Line Corridor
- Geo Reference Point



Checked by: hemant

Approved by: [Signature]

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E-mail : info@wnecc.com

Prepared by:
GAMMON India Limited,
T&D Business G-55,
MIDC Butibori,
Nagpur-441108

DGPS
AP

AP No.	East
AP 27A/0	75
AP 27A/1	75
AP 27A/2	75
AP 28/0	75
AP 29/0	75
29/1	75

REFERENCE TRANSMISSION LINE CORRIDOR

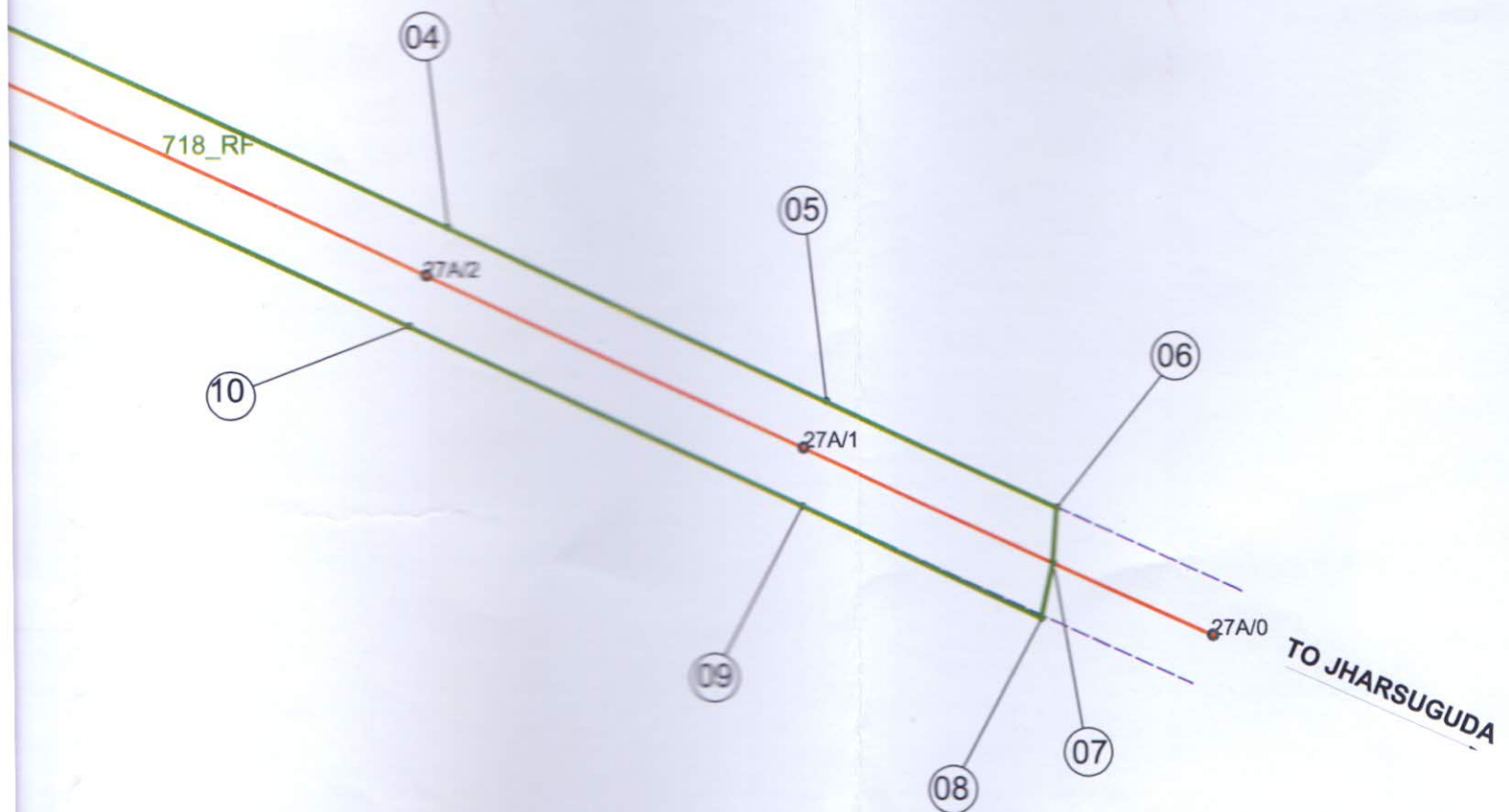
HARAMJAYGARH (KORBA) TL-II (CKT- 3 & 4)

Dist.- Raigarh, State - Chhattisgarh

Department No.- 718 RF



NTS



DGPS Coordinate (WGS84)
AP27A/0 TO AP 29/1

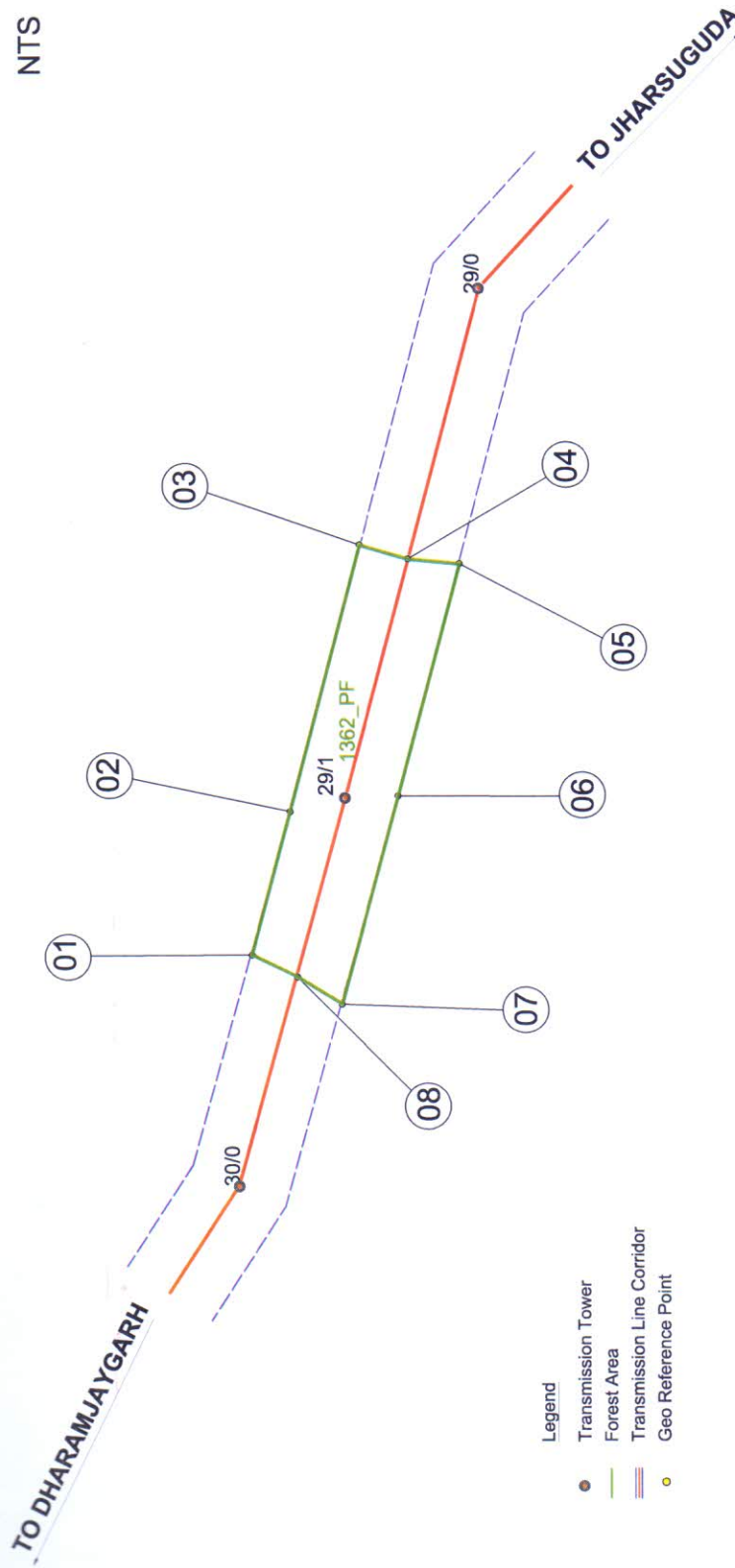
Reserved Forest
DGPS Coordinate (WGS84)

AP No.	Easting (IN UTM)	Northing (IN UTM)
AP 27A/0	756731.1904	2458472.1872
AP 27A/1	756464.4828	2458593.3807
AP 27A/2	756221.3457	2458703.3623
AP 28/0	755883.4027	2458857.0972
AP 29/0	755722.1968	2459005.0815
29/1	755380.1913	2459095.7124

Point No.	Easting (IN UTM)	Northing (IN UTM)
01	756650.3714	2459085.6879
02	756738.2490	2459034.4315
03	756802.1772	2458885.5476
04	756835.3074	2458734.3503
05	756479.3372	2458623.2281
06	756629.1991	2458555.3585
07	756625.7752	2458520.2038

Point No.	Easting (IN UTM)	Northing (IN UTM)
08	756618.4922	2458484.5969
09	756463.8676	2458555.9311
10	756207.3492	2458673.3929
11	755865.2743	2458829.3992
12	755705.5016	2458974.8727
13	755537.6122	2459018.5980
14	755540.7850	2459053.0600

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR
765 KV D/C JHARSUGUDA • DHARAMJAYGARH (KORBA) TL-II (CKT-3 & 4)
Village - Nayarampur , Dist.- Raigarh, State - Chhattisgarh
Compartment No.- PF 1362



Protected Forest
DGPS Coordinate (WGS84)

Point No.	Easting (IN UTM)	Northing (IN UTM)
01	755275.5433	2459158.4042
02	755371.1310	2459132.7380
03	755550.3714	2459085.8879
04	755540.7850	2459053.0600
05	755537.6122	2459018.5980
06	755381.5891	2459060.1776
07	755242.3730	2459097.8993
08	755261.0588	2459128.6306

DGPS Coordinate (WGS84)
AP29/0 TO AP 30/0

AP No.	Easting (IN UTM)	Northing (IN UTM)
AP 29/0	755722.2455	2459005.2472
AP 29/1	755380.2400	2459095.8780
AP 30/0	755119.9542	2459167.4080

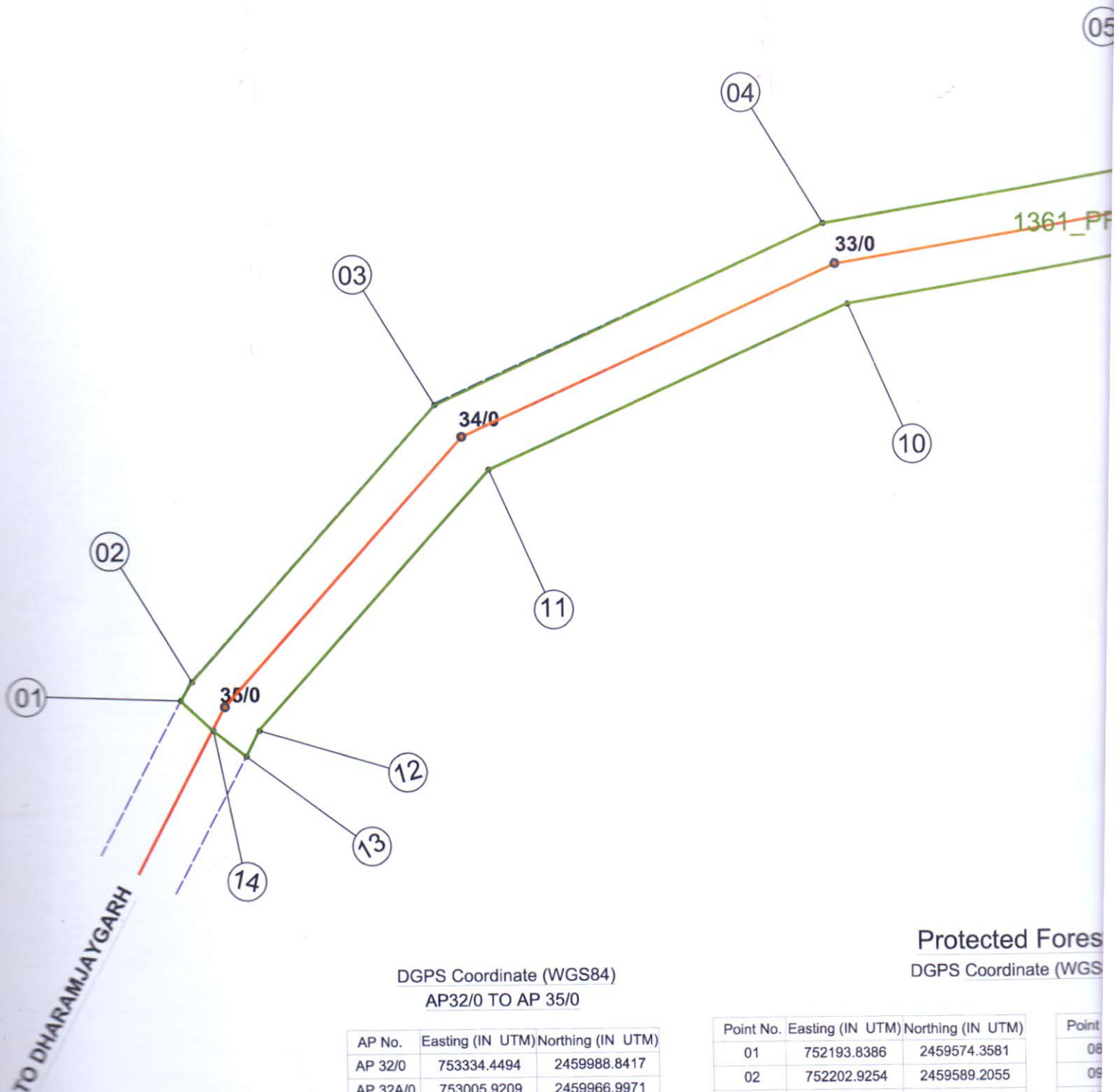


Checked by: *[Signature]*
Approved by: *[Signature]*

Surveyed By:
MNEC Consultants Pvt. Ltd.
An ISO 27001:2005, 9001:2008 Certified Company
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Ph. : +91-712-2542261 Fax : +91-712-2542291
E-mail : info@mnecc.com

Prepared by:
GAMMON India Limited,
T&D Business G-55,
MIDC Butibori,
Nagpur-441108

MAP SHOWING GEO REFERENCE TRAN
765 KV D/C JHARSUGUDA • DHARAMJAYGARH
Village - Raikera , Dist.- Raigarh,
Compartment No.-



Point No.	Easting (IN UTM)	Northing (IN UTM)
01	752193.8386	2459574.3581
02	752202.9254	2459589.2055
03	752399.8713	2459808.9271
04	752711.1534	2459951.2641
05	753001.6741	2460000.2530
06	753245.9541	2460016.2716
07	753253.1225	2459983.1743

REFERENCE TRANSMISSION LINE CORRIDOR
DHARAMJAYGARH (KORBA) TL-II (CKT- 3 & 4)
Dist.- Raigarh, State - Chhattisgarh
Compartment No.- 1361 PF



Legend

- Transmission Tower
- Forest Area
- Transmission Line Corridor
- Geo Reference Point

Protected Forest

DGPS Coordinate (WGS84)

Point No.	Easting (IN UTM)	Northing (IN UTM)
08	753260.3135	2459950.3383
09	753009.8657	2459933.5663
10	752730.1635	2459886.7394
11	752442.5304	2459756.8169
12	752256.1446	2459549.9937
13	752245.8451	2459529.2196
14	752219.4082	2459550.0804

Point No.	Easting (IN UTM)	Northing (IN UTM)
08	753260.3135	2459950.3383
09	753009.8657	2459933.5663
10	752730.1635	2459886.7394
11	752442.5304	2459756.8169
12	752256.1446	2459549.9937
13	752245.8451	2459529.2196
14	752219.4082	2459550.0804

Checked by: *[Signature]*

Approved by: *[Signature]*



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Prepared by:

GAMMON India Limited,

T&D Business G-55,

MIDC Butibori,

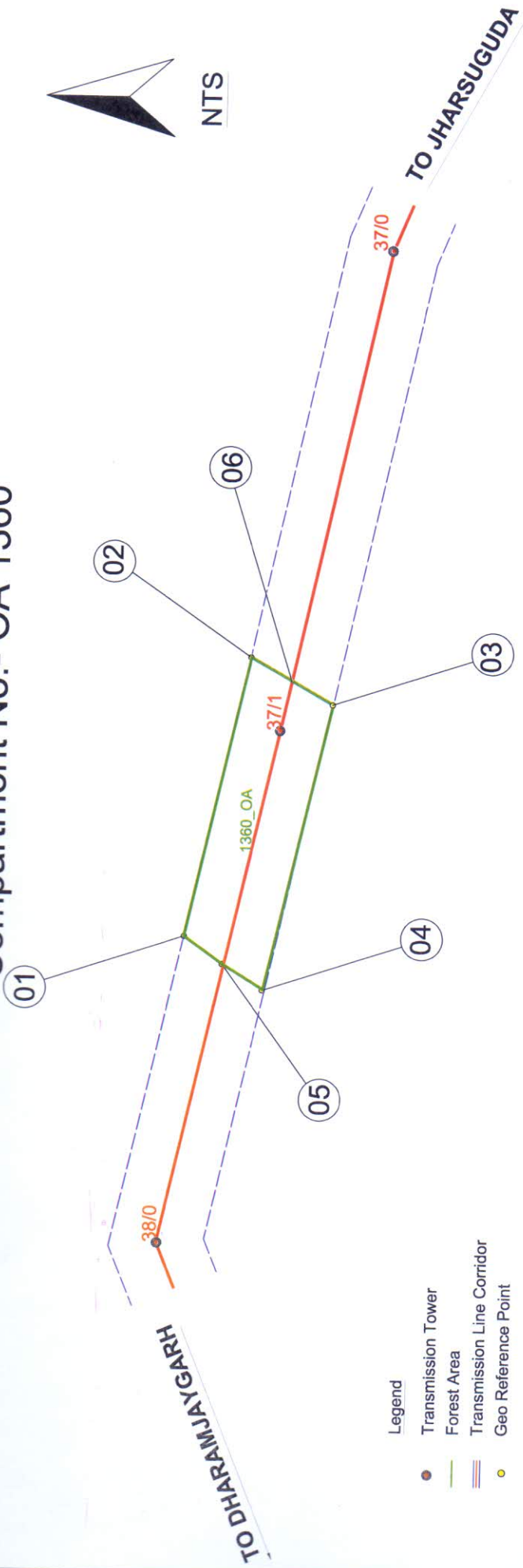
Nagpur-441108

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

765 KV D/C JHARSUGUDA • DHARAMJAYGARH (KORBA) TL-II (CKT- 3 & 4)

Village - Raikera, Dist.- Raigarh, State - Chhattisgarh

Compartment No.- OA 1360



DGPS Coordinate (WGS84)

AP37/0 TO AP 38/0

AP No.	Easting (IN UTM)	Northing (IN UTM)
AP 37/0	751003.9969	2459506.9060
AP 37/1	750648.8350	2459587.3680
AP 38/0	750276.3711	2459671.6913

OA Forest

DGPS Coordinate (WGS84)

Point No.	Easting (IN UTM)	Northing (IN UTM)
01	750497.9924	2459651.6210
02	750703.9496	2459605.7167
03	750669.8953	2459544.9342
04	750458.9596	2459593.2280
05	750477.8503	2459623.2990
06	750686.9784	2459575.5127

Checked by: *[Signature]*

Approved by: *[Signature]*

Surveyed By:

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E-mail : info@mnecc.com

Prepared by:

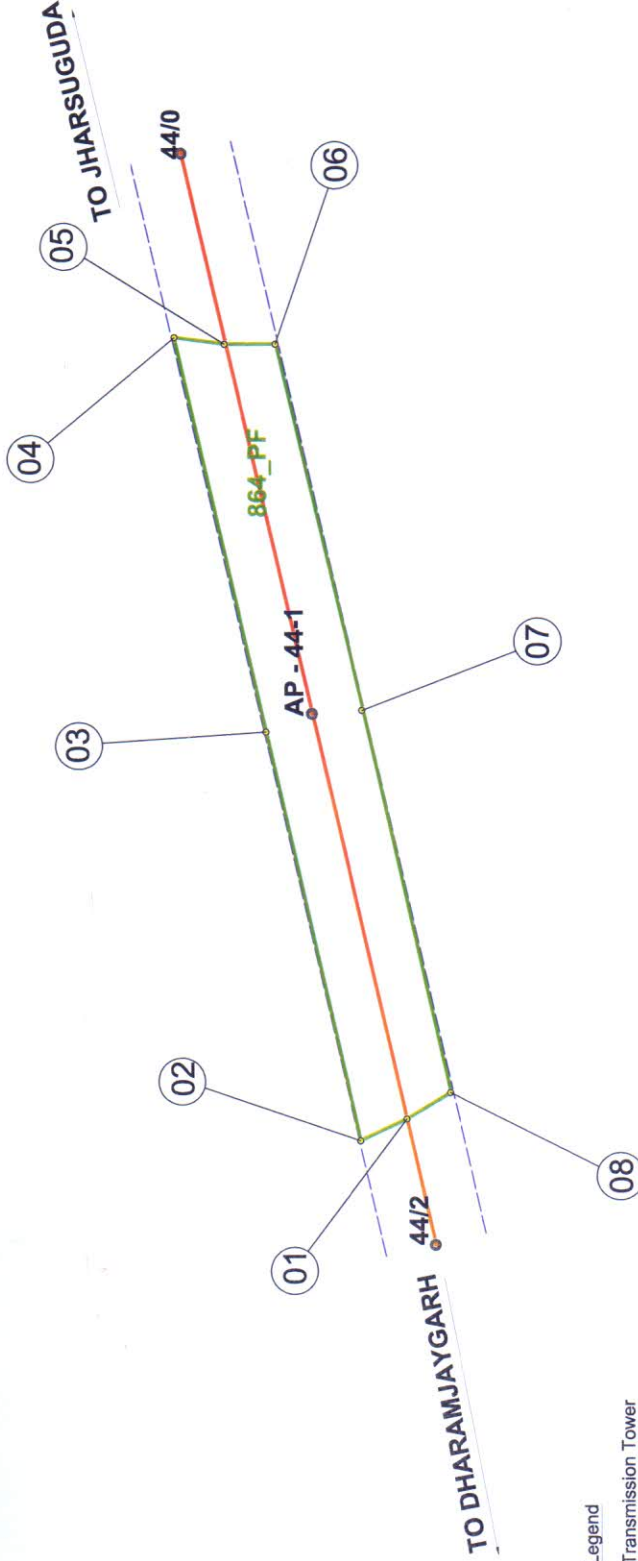
GAMMON India Limited,

T&D Business G-55,

MIDC Butibori,

Nagpur-441108

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR
765 KV D/C JHARSUGUDA - DHARAMJAYGARH (KORBA) TL-II (CKT- 3 & 4)
Village - Kotrimal, Dist.- Raigarh, State - Chhattisgarh
Compartment No.- PF 864



- Legend
- Transmission Tower
 - Forest Area
 - Transmission Line Corridor
 - Geo Reference Point

Protected Forest
DGPS Coordinate (WGS84)

DGPS Coordinate (WGS84)
AP 44/0 TO AP 44/2

Point No.	Easting (IN UTM)	Northing (IN UTM)
01	745915.4532	2459367.3565
02	745901.4108	2459397.6480
03	746169.0883	2459458.2938
04	746427.5424	2459517.1416
05	746423.1038	2459484.1270
06	746423.0201	2459450.6831
07	746182.9835	2459395.4513
08	745932.5882	2459338.7777

AP No.	Easting (IN UTM)	Northing (IN UTM)
AP 44/0	746547.8412	2459511.959
AP 44/1	746180.9384	2459428.109
AP 44/2	745833.3738	2459348.909

Checked by: *[Signature]*

Approved by: *[Signature]*

Surveyed By:

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Prepared by:

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MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

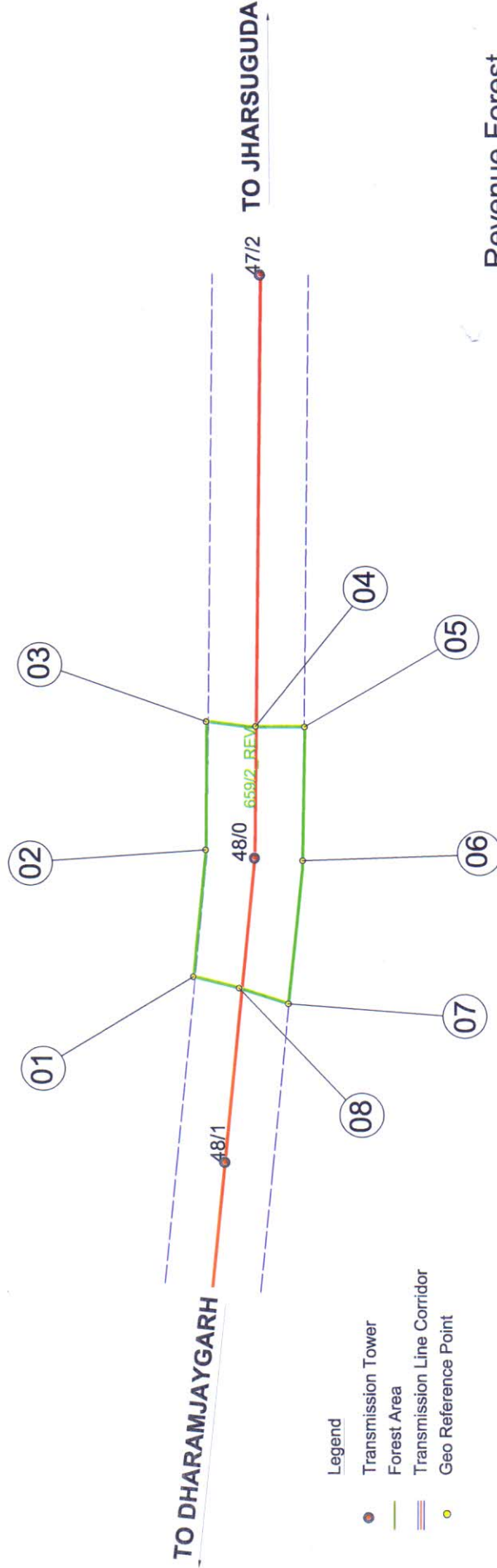
765 KV D/C JHARSUGUDA • DHARAMJAYGARH (KORBA) TL-II (CKT- 3 & 4)

Village - Kanchanpur , Dist.- Raigarh, State - Chhattisgarh

Khasra No. - 659/2 REV



NTS



Revenue Forest

DGPS Coordinate (WGS84)

Point No.	Easting (IN UTM)	Northing (IN UTM)
01	741402.2529	2455913.2915
02	741490.8283	2455904.6717
03	741580.8778	2455904.3429
04	741577.5830	2455869.9087
05	741577.0500	2455835.9009
06	741483.3747	2455837.2043
07	741383.3292	2455846.9852
08	741394.3094	2455881.2226

DGPS Coordinate (WGS84)

AP 47/2 TO AP 48/1

AP No.	Easting (IN UTM)	Northing (IN UTM)
AP 47/2	741893.0299	2455867.2410
AP 48/0	741485.1104	2455870.6908
AP 48/1	741272.4108	2455890.9832

Checked by: *[Signature]*

Approved by: *[Signature]*

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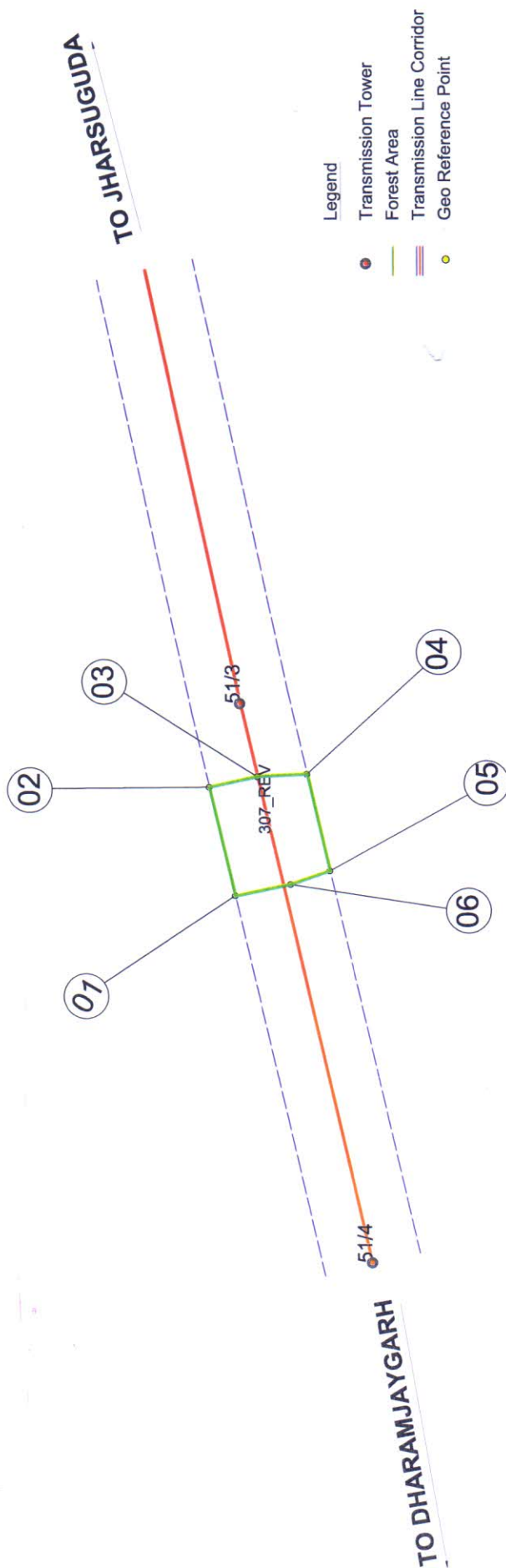
Nagpur-441108

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR 765 KV D/C JHARSUGUDA • DHARAMJAYGARH (KORBA) TL-II (CKT- 3 & 4) Village - Katangdihi , Dist.- Raigarh, State - Chhattisgarh

Compartment No.- 307 REV



NTS



Revenue Forest

DGPS Coordinate (WGS84)

DGPS Coordinate (WGS84)

AP 51/3 TO AP 51/4

Point No.	Easting (IN UTM)	Northing (IN UTM)
01	735735.6226	2453086.4218
02	735810.5592	2453103.9496
03	735817.7937	2453071.2376
04	735819.3881	2453037.2063
05	735752.7800	2453021.6266
06	735743.4764	2453048.5150

AP No.	Easting (IN UTM)	Northing (IN UTM)
AP 51/3	735867.9747	2453082.9750
AP 51/4	735484.1126	2452993.1890

Checked by: *[Signature]*

Approved by: *[Signature]*

Surveyed By:

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E-mail : info@mnecc.com

Prepared by:

GAMMON India Limited,

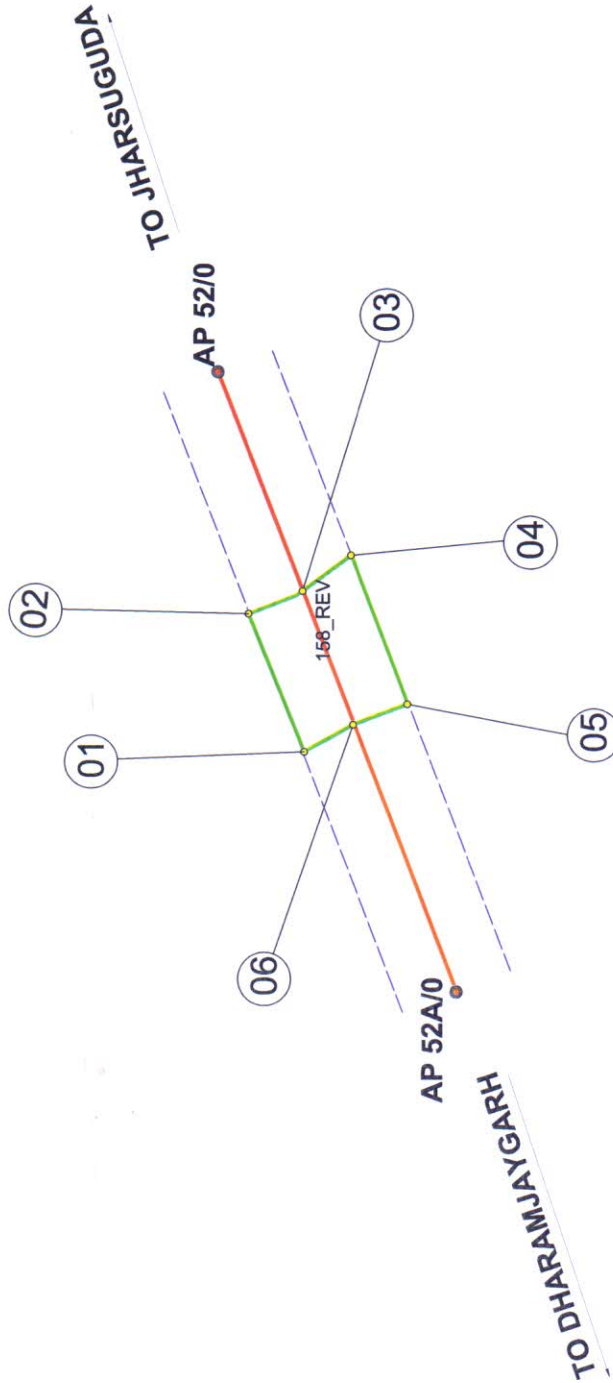
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MIDC Butibori,

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MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR
765 KV D/C JHARSUGUDA • DHARAMJAYGARH (KORBA) TL-II (CKT- 3 & 4)
Village - Katangdih, Dist.- Raigarh, State - Chhattisgarh

Compartment No.- 158 REV



- Legend
- Transmission Tower
 - Forest Area
 - Transmission Line Corridor
 - Geo Reference Point

Revenue Forest

DGPS Coordinate (WGS84)

Point No.	Easting (IN UTM)	Northing (IN UTM)
01	733631.3450	2452571.5798
02	733711.0874	2452603.5920
03	733724.2411	2452572.3378
04	733744.8016	2452544.3433
05	733658.9620	2452511.4286
06	733647.0820	2452543.1610

DGPS Coordinate (WGS84)

AP52/0 TO AP 52A/0

AP No.	Easting (IN UTM)	Northing (IN UTM)
AP 52/0	733851.26	2452621.04
AP 52A/0	733492.59	2452483.51

Checked by: *Arjun*

Approved by: *[Signature]*

Surveyed By:

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Prepared by:

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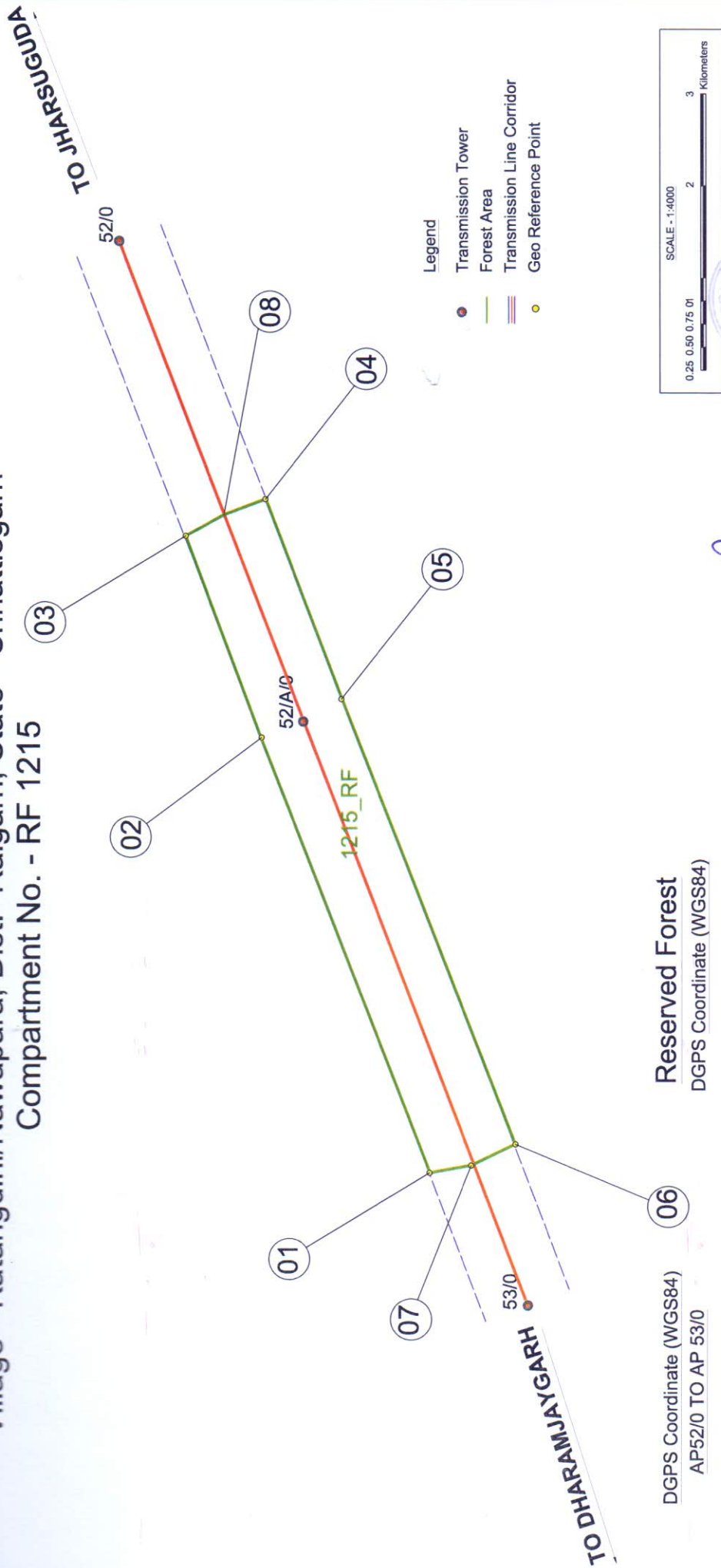
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MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR 765 KV D/C JHARSUGUDA • DHARAMJAYGARH (KORBA) TL-II (CKT- 3 & 4)

Village - Katangdihi/Nawapara, Dist.- Raigarh, State - Chhattisgarh

Compartment No. - RF 1215

SCALE - 1:4000



DGPS Coordinate (WGS84)
AP52/0 TO AP 53/0

DGPS Coordinate (WGS84)
Reserved Forest

Point No.	Easting (IN UTM)	Northing (IN UTM)
01	733155.0151	2452388.9655
02	733480.5999	2452514.7933
03	733631.3450	2452571.5798
04	733658.8547	2452511.7085
05	733509.3392	2452454.8197
06	733176.2931	2452325.1137
07	733160.5069	2452357.9874
08	733647.2160	2452542.8030

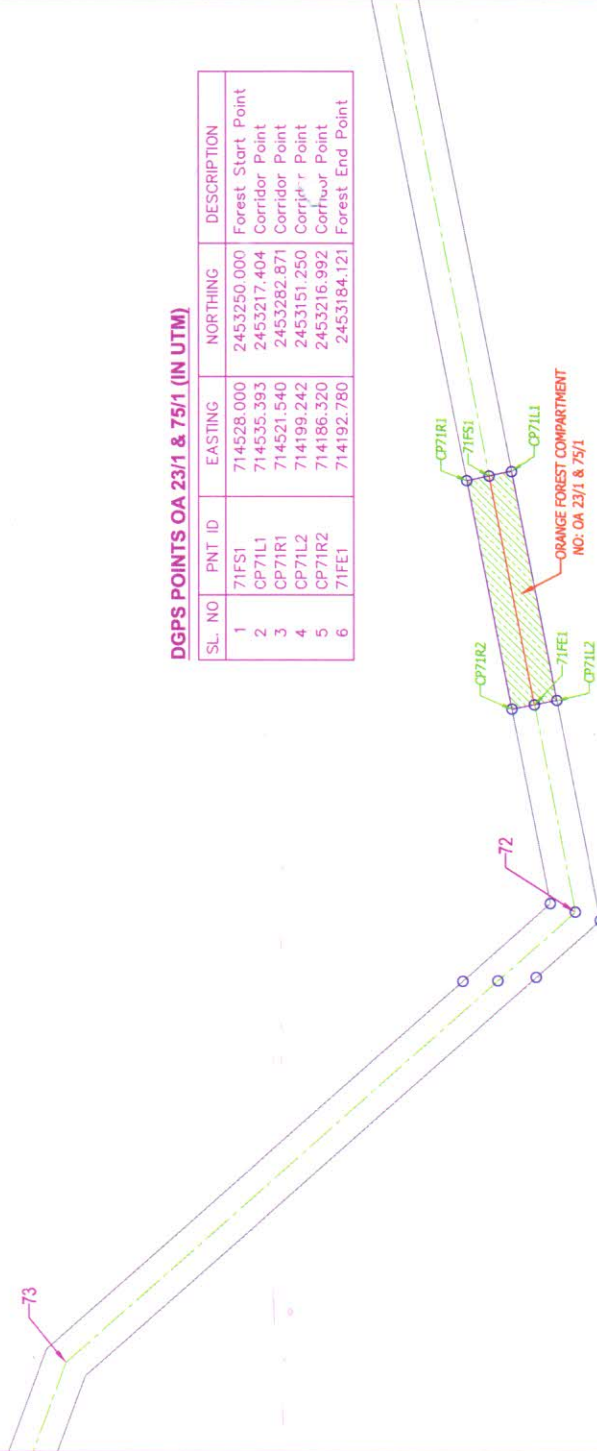
AP No.	Easting (IN UTM)	Northing (IN UTM)
AP 52/0	733851.2677	2452621.0455
AP 52A/0	733492.5938	2452483.5139
AP 53/0	733056.0389	2452315.7678

Checked by: *[Signature]*
Approved by: *[Signature]*

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Prepared by:
GAMMON India Limited,
T&D Business G-55,
MIDC Butibori,
Nagpur-441108

MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR
765 KV D/C JHARSUGUDA - DHARAMJAYGARH TL-II(CKT - 3 & 4)
VILLAGE - KURRU, DIST - RAIGARH, STATE - CHATTISGARH
COMPARTMENT NO. - OA 23/1 & 75/1, TOTAL AREA - 2.2914 HECTARE



DGPS POINTS OA 23/1 & 75/1 (IN UTM)

SL. NO	PNT ID	EASTING	NORTHING	DESCRIPTION
1	71FS1	714528.000	2453250.000	Forest Start Point
2	CP71L1	714535.393	2453217.404	Corridor Point
3	CP71R1	714521.540	2453282.871	Corridor Point
4	CP71L2	714199.242	2453151.250	Corridor Point
5	CP71R2	714186.320	2453216.992	Corridor Point
6	71FE1	714192.780	2453184.121	Forest End Point

Sheet 4 of 9

Activity	Name	Designation	Signature	Date							
Prepared											
Processed											
Checked	Pawan Kumar	gr. Engr	Pawan								
Approved	R. P. Barasika	Chief Engineer	R. P. Barasika								
Scale: —	750m	675	600	525	450	375	300	225	150	75	150m
	1:7,500 (1cm = 75m)										

BAJAJ ELECTRICALS LIMITED
Rustumjee Aspiree, Bhanu Shankar Yagnik Marg
Off Eastern Express Highway, Sion (East)- Mumbai -400 022 (INDIA)
Mob : +91 8879656978 / 9560686978 ; Tel : 022-24064000

POWER GRID CORPORATION OF INDIA LIMITED
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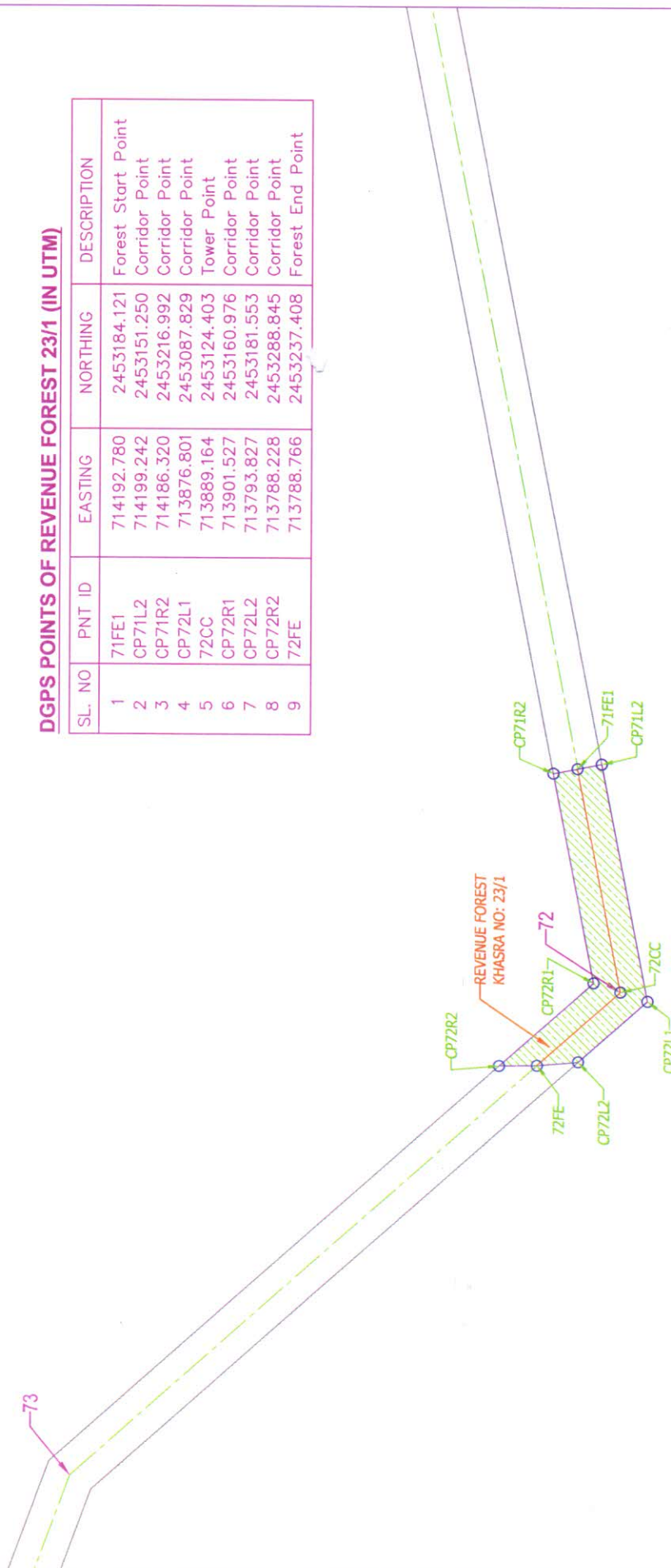


MAP SHOWING GEO REFERENCER TRANSMISSION LINE CORRIDOR
765 KV D/C JHARSUGUDA - DHARAMJAYGARH TL-II(CKT - 3 & 4)
VILLAGE - KURRU, DIST - RAIGARH, STATE - CHATTISGARH
KHASRA NO. - 23/1, TOTAL AREA - 3.0820 HECTARE



DGPS POINTS OF REVENUE FOREST 23/1 (IN UTM)

SL. NO	PNT ID	EASTING	NORTHING	DESCRIPTION
1	71FE1	714192.780	2453184.121	Forest Start Point
2	CP71L2	714199.242	2453151.250	Corridor Point
3	CP71R2	714186.320	2453216.992	Corridor Point
4	CP72L1	713876.801	2453087.829	Corridor Point
5	72CC	713889.164	2453124.403	Tower Point
6	CP72R1	713901.527	2453160.976	Corridor Point
7	CP72L2	713793.827	2453181.553	Corridor Point
8	CP72R2	713788.228	2453288.845	Corridor Point
9	72FE	713788.766	2453237.408	Forest End Point



Sheet 4 of 9

Activity	Name	Designation	Signature	Date
Prepared				
Processed				
Checked				
Approved	Pankaj Kumar R.R. Baran	801 Engr Chief Manager	<i>Pankaj Kumar</i> <i>R.R. Baran</i>	
Scale: —	750m 675 600 525 450 375 300 225 150 75 0 75 150m			
1:7,500 (1cm = 75m)				

Contractor: **BAJAJ ELECTRICALS LIMITED**
Rustomjee Aspiree, Bhanu Shankar Yagnik Marg
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Mob : +91 8879656978 / 9560686978 ; Tel : 022-24064000



Client: **POWER GRID CORPORATION OF INDIA LIMITED**
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SL. NO	PNT ID	EASTING	NORTHING	DESCRIPTION
1	CP76TRIR2	711027.477	2454889.787	Corridor Point
2	CP76RTIR1	711188.972	2454908.539	Corridor Point
3	CP76R	711325.096	2454863.903	Corridor Point
4	76FS	711328.597	2454827.499	Forest End Point
5	CP76L	711335.171	2454790.092	Tower Point
6	CP76TRIL1	711182.040	2454840.313	Corridor Point
7	CP76RLI2	711033.632	2454823.323	Tower Point
8	76RTIFC	711030.414	2454856.416	Forest Start Point
9	76RTIC	711185.567	2454874.619	Centre Line Point

Activity	Name	Designation	Signature	Date
Prepared				
Processed				
Checked	Pawan Kumar	Gr. Insp	[Signature]	
Approved	R. R. Barastean	Chief Manager	[Signature]	

Scale: —
1:7,500 (1cm = 75m)

750m 675 600 525 450 375 300 225 150 75 0 75 150m

Contractor: _____ Client: _____

BAJAJ ELECTRICALS LIMITED
Rustonjee Aspiree, Bhanu Shankar Yagnik Marg
Off Eastern Express Highway, Sion (East)- Mumbai -400 022 (INDIA)
Mob : +91 8879656978 / 9560686978 ; Tel : 022-24064000



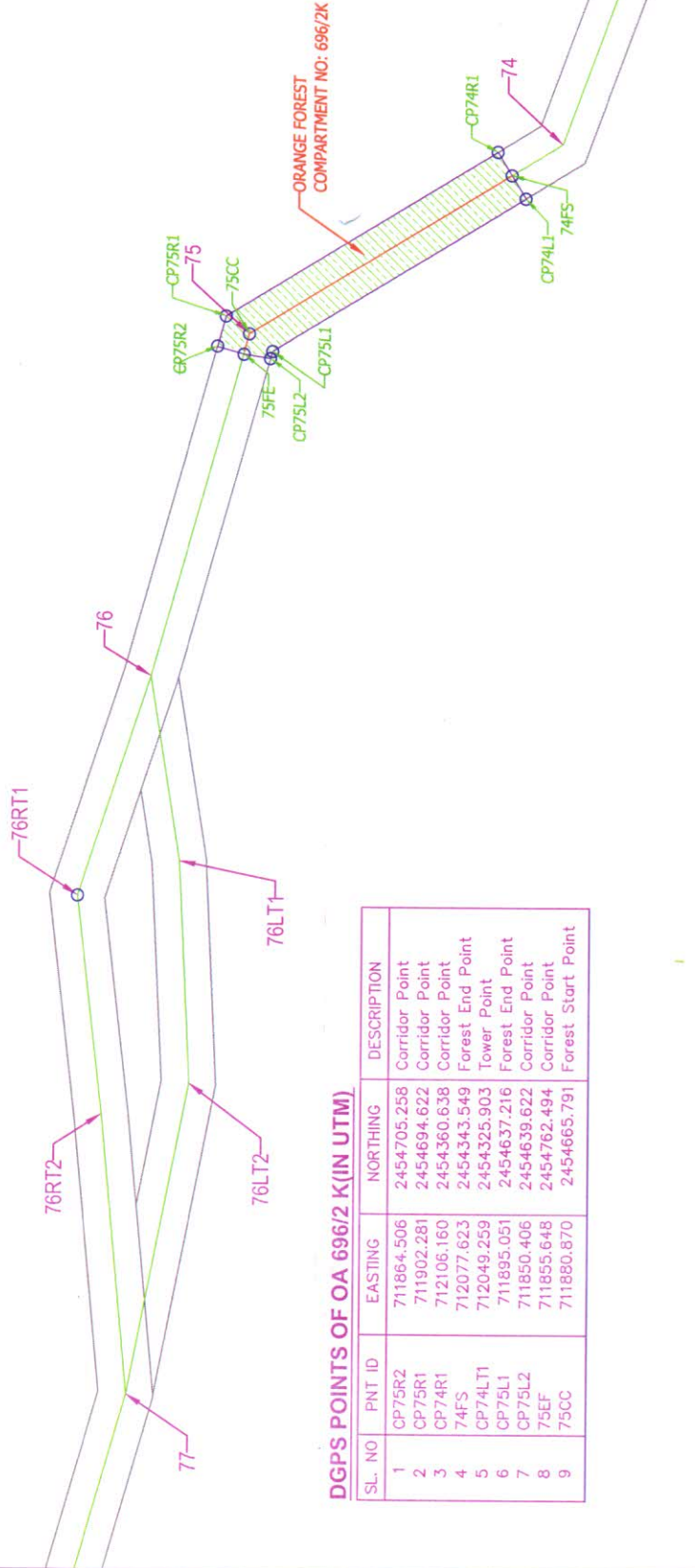
POWER GRID CORPORATION OF INDIA LIMITED
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MAP SHOWING GEO REFERENCE TRANSMISSION LINE CORRIDOR

765 K.V D/C JHARSUGUDA - DHARAMJAYGARH TL - II (CKT - 3 & 4)
VILLAGE - KAFARMAR, DIST - RAIGARH, STATE N- CHATTISGARH
COMPARTMENT NO. - OA 696/2K, TOTAL AREA 2.7001 HECTARE.



DGPS POINTS OF OA 696/2 K(IN UTM)

SL. NO	PNT ID	EASTING	NORTHING	DESCRIPTION
1	CP75R2	711864.506	2454705.258	Corridor Point
2	CP75R1	711902.281	2454694.622	Corridor Point
3	CP74R1	712105.160	2454360.638	Corridor Point
4	74FS	712077.623	2454343.549	Forest End Point
5	CP74LT1	712049.259	2454325.903	Tower Point
6	CP75L1	711895.051	2454637.216	Forest End Point
7	CP75L2	711850.406	2454639.622	Corridor Point
8	75EF	711855.648	2454762.494	Corridor Point
9	75CC	711880.870	2454665.791	Forest Start Point

Sheet 5 of 9

Activity	Name	Designation	Signature	Date
Prepared				
Processed				
Checked	Pavankumar	so. Engr	<i>Pavankumar</i>	
Approved	R. P. Barotkar	client manager	<i>R. P. Barotkar</i>	
Scale: -	750m 675 600 525 450 375 300 225 150 75 0 75 150m			
1:7,500 (1cm = 75m)				



BAJAJ ELECTRICALS LIMITED

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