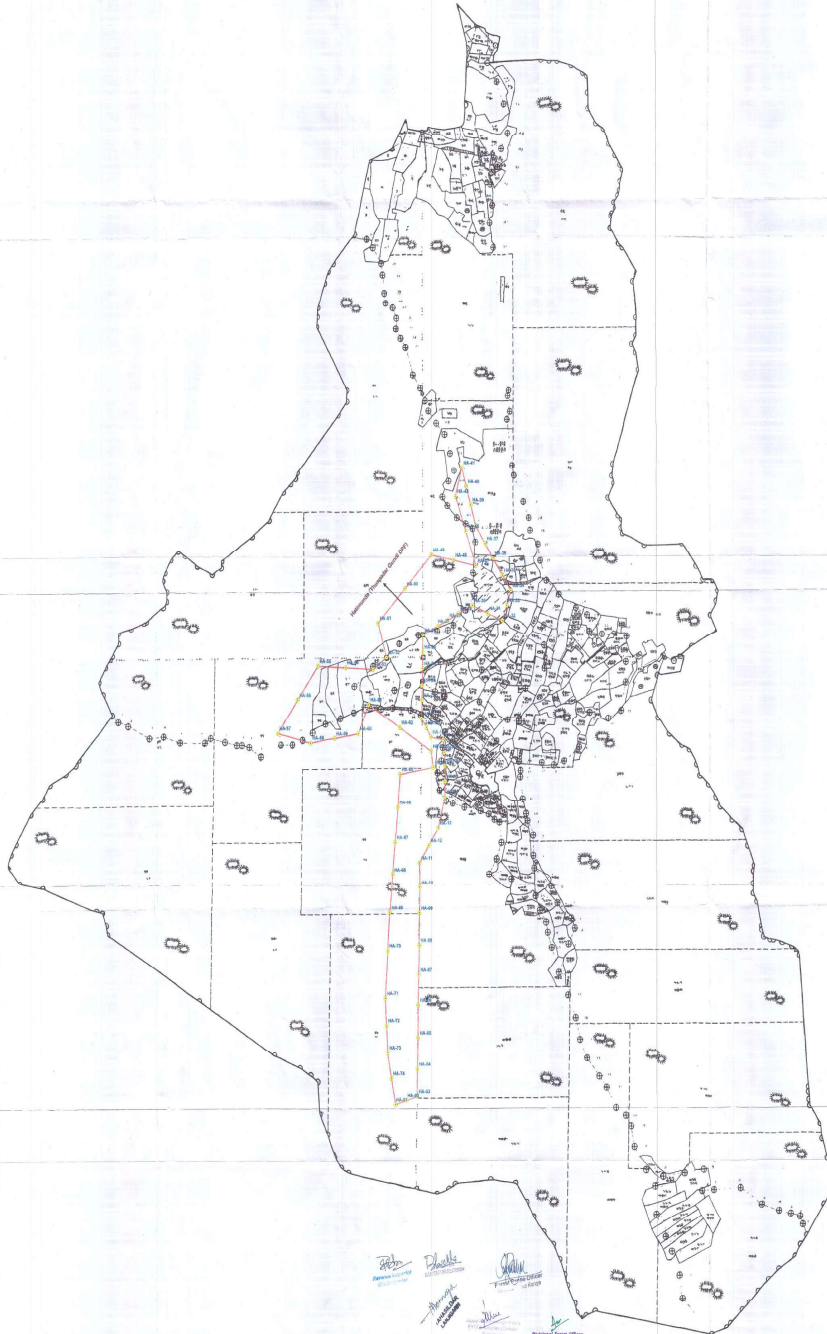


MAP SHOWING COMPENSATORY AFFORSTATION OVER AN AREA OF 25.00 HA IDENTIFIED IN HATIMUNDA (THUAPADAR GUNDI DPF) UNDER BHAWANIPATNA RANGE IN KALAHANDI NORTH FOREST DIVISION AND KALAHANDI DISTRICT AGAINST FOREST AREA PROPOSED FOR DIVERSION OF 136.966 HA OF FOREST LAND (BALIGUDA FOREST DIVISION 94.013 HA + KALAHANDI NORTH FOREST DIVISION 42.953 HA) FOR CONSTRUCTION OF 220 KV DC TRANSMISSION LINE FROM EXISTING 220/132 KV GRID SUB-STATION AT KESINGA, KALAHANDI DISTRICT TO PROPOSED 220/132/33 KV GRID SUB STATION AT BALIGUDA (SIRTIGURA), KANDHAMAL DISTRICT.



S. No.	Point of Afforestation	Latitude	Longitude
1	10.00	20.00	75.00
2	10.00	20.00	75.00
3	10.00	20.00	75.00
4	10.00	20.00	75.00
5	10.00	20.00	75.00
6	10.00	20.00	75.00
7	10.00	20.00	75.00
8	10.00	20.00	75.00
9	10.00	20.00	75.00
10	10.00	20.00	75.00
11	10.00	20.00	75.00
12	10.00	20.00	75.00
13	10.00	20.00	75.00
14	10.00	20.00	75.00
15	10.00	20.00	75.00
16	10.00	20.00	75.00
17	10.00	20.00	75.00
18	10.00	20.00	75.00
19	10.00	20.00	75.00
20	10.00	20.00	75.00
21	10.00	20.00	75.00
22	10.00	20.00	75.00
23	10.00	20.00	75.00
24	10.00	20.00	75.00
25	10.00	20.00	75.00
26	10.00	20.00	75.00
27	10.00	20.00	75.00
28	10.00	20.00	75.00
29	10.00	20.00	75.00
30	10.00	20.00	75.00
31	10.00	20.00	75.00
32	10.00	20.00	75.00
33	10.00	20.00	75.00
34	10.00	20.00	75.00
35	10.00	20.00	75.00
36	10.00	20.00	75.00
37	10.00	20.00	75.00
38	10.00	20.00	75.00
39	10.00	20.00	75.00
40	10.00	20.00	75.00
41	10.00	20.00	75.00
42	10.00	20.00	75.00
43	10.00	20.00	75.00
44	10.00	20.00	75.00
45	10.00	20.00	75.00
46	10.00	20.00	75.00
47	10.00	20.00	75.00
48	10.00	20.00	75.00
49	10.00	20.00	75.00
50	10.00	20.00	75.00
51	10.00	20.00	75.00
52	10.00	20.00	75.00
53	10.00	20.00	75.00
54	10.00	20.00	75.00
55	10.00	20.00	75.00
56	10.00	20.00	75.00
57	10.00	20.00	75.00
58	10.00	20.00	75.00
59	10.00	20.00	75.00
60	10.00	20.00	75.00
61	10.00	20.00	75.00
62	10.00	20.00	75.00
63	10.00	20.00	75.00
64	10.00	20.00	75.00
65	10.00	20.00	75.00
66	10.00	20.00	75.00
67	10.00	20.00	75.00
68	10.00	20.00	75.00
69	10.00	20.00	75.00
70	10.00	20.00	75.00
71	10.00	20.00	75.00
72	10.00	20.00	75.00
73	10.00	20.00	75.00
74	10.00	20.00	75.00
75	10.00	20.00	75.00

S. No.	Name of the DPF	Area, Ha
1	Hatimunda Thuapadar Gundi DPF	25.00
Total		25.00

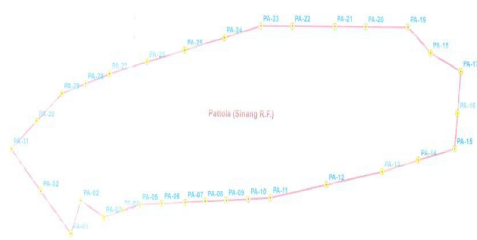
- DPF Survey of Identified Compensatory Afforestation land in Hatimunda (Thuapadar Gundi DPF) under Bhawanipatna Range, Kalahandi North Forest Division for the forest area proposed for diversion for construction of 220 KV DC Transmission line from existing 220/132 KV Grid Sub-Station at Kesinga, Kalahandi District to proposed 220/132/33 KV Grid Sub-Station at Baliguda (Sirtigura), Kandhamal District. The forest area has been identified by the District Forest Officer, Kalahandi North Forest Division in the form of a map and a list of the identified forest area. The map and the list are attached herewith for the information of the concerned authorities.
- DPF Survey Coordinates are verified by ORSAC. Also Maps showing Compensatory Afforestation land are verified with airtight points compared with Ortho-rectified Canopy Satellite image and found that maps are correct at a confidence level of 90%.
- Total area proposed for Compensatory Afforestation comes in Hatimunda (Thuapadar Gundi DPF) under Bhawanipatna Range, Kalahandi North Forest Division and is 25.00 Ha. The area is identified by the District Forest Officer, Kalahandi North Forest Division in the form of a map and a list of the identified forest area. The map and the list are attached herewith for the information of the concerned authorities.



- Legend
- Compensatory Afforestation Boundary
- Compensatory Afforestation Boundary Points
- Village Boundary



MAP SHOWING COMPENSATORY AFFORSTATION OVER AN AREA OF 25.00 HA IDENTIFIED IN PATTOLA (SINANG RESERVE FOREST) UNDER BHAWANIPATNA RANGE IN KALAHANDI NORTH FOREST DIVISION AND KALAHANDI DISTRICT AGAINST FOREST AREA PROPOSED FOR DIVERSION OF 136.966 HA OF FOREST LAND (BALIGUDA FOREST DIVISION 94.013 HA + KALAHANDI NORTH FOREST DIVISION 42.953 HA) FOR CONSTRUCTION OF 220 KV DC TRANSMISSION LINE FROM EXISTING 220/132 KV GRID SUB-STATION AT KESINGA, KALAHANDI DISTRICT TO PROPOSED 220/132/33 KV GRID SUB STATION AT BALIGUDA (SIRTIGURA), KANDHAMAL DISTRICT.



Scale: 1:2000
0 100 200 300 400 Meters

S. No.	Pillar No.	Easting	Northing	Latitude	Longitude
1	PA-01	720004.403	2200271.369	19° 53' 13.34027" N	83° 00' 30.32378" E
2	PA-02	720006.242	2200321.841	19° 53' 12.28334" N	83° 00' 33.77033" E
3	PA-03	720001.887	2200302.834	19° 53' 11.81524" N	83° 00' 35.02189" E
4	PA-04	720005.980	2200315.451	19° 53' 11.70757" N	83° 00' 33.12121" E
5	PA-05	720006.880	2200320.056	19° 53' 11.99937" N	83° 00' 36.00737" E
6	PA-06	721003.822	2200321.002	19° 53' 12.18332" N	83° 00' 40.35421" E
7	PA-07	720005.157	2200304.744	19° 53' 12.07389" N	83° 00' 42.54317" E
8	PA-08	721041.451	2200357.057	19° 53' 12.34965" N	83° 00' 45.85007" E
9	PA-09	721005.024	2200342.754	19° 53' 12.43302" N	83° 00' 45.14812" E
10	PA-10	721001.421	2200325.893	19° 53' 12.51492" N	83° 00' 45.32352" E
11	PA-11	721004.093	2200347.278	19° 53' 12.60037" N	83° 00' 46.10021" E
12	PA-12	721004.627	2200371.319	19° 53' 13.09349" N	83° 00' 46.58978" E
13	PA-13	721005.141	2200399.420	19° 53' 14.18933" N	83° 00' 38.09398" E
14	PA-14	720005.458	2200421.843	19° 53' 14.86123" N	83° 00' 40.00147" E
15	PA-15	721003.718	2200444.857	19° 53' 15.57927" N	83° 00' 40.50688" E
16	PA-16	721003.108	2200507.890	19° 53' 17.64235" N	83° 00' 40.15398" E
17	PA-17	721786.880	2200502.488	19° 53' 20.06485" N	83° 00' 40.41897" E
18	PA-18	721685.763	2200512.468	19° 53' 21.10224" N	83° 00' 41.08847" E
19	PA-19	721001.850	2200508.110	19° 53' 21.57987" N	83° 00' 41.54547" E
20	PA-20	721003.620	2200506.861	19° 53' 22.56644" N	83° 00' 42.74423" E
21	PA-21	721680.130	2200503.783	19° 53' 23.57012" N	83° 00' 54.28249" E
22	PA-22	721680.947	2200504.126	19° 53' 23.58657" N	83° 00' 54.84208" E
23	PA-23	721007.161	2200512.749	19° 53' 23.54213" N	83° 00' 46.89582" E
24	PA-24	721001.408	2200501.939	19° 53' 23.86757" N	83° 00' 45.10387" E
25	PA-25	720008.611	2200506.290	19° 53' 21.10289" N	83° 00' 42.18418" E
26	PA-26	720001.814	2200508.264	19° 53' 20.39185" N	83° 00' 38.15687" E
27	PA-27	720002.075	2200509.758	19° 53' 21.61377" N	83° 00' 38.06287" E
28	PA-28	720001.385	2200504.105	19° 53' 20.95231" N	83° 00' 36.17729" E
29	PA-29	720003.488	2200502.566	19° 53' 18.50037" N	83° 00' 32.21108" E
30	PA-30	720761.838	2200471.873	19° 53' 18.87588" N	83° 00' 30.18802" E
31	PA-31	720002.846	2200421.217	19° 53' 15.45307" N	83° 00' 28.12708" E
32	PA-32	720763.879	2200445.582	19° 53' 12.79794" N	83° 00' 30.52708" E

S. No.	Name of the RF	Map Area, Ha
1	Pattola (Sinang Reserve Forest)	25.485
Total		25.485

- DGPS Survey of identified Compensatory Afforestation land in Pattola (Sinang R.F.) under Bhawanipatna Range, Kandhamal North Forest Division for the forest area proposed for diversion for construction of 220 KV DC Transmission line from existing 220/132 KV Grid Sub-Station at Kesinga, Kandhamal district to proposed 220/132/33 KV Grid Sub-Station at Sirtigura under K. Nayagarh District. Kandhamal district has been carved out by the Deputy General Manager (District), E.H.T. (Kandhamal) Division, OPTCL, Bhubaneswar through M/s Viennet Consultancy Services Pvt. Ltd, Bhubaneswar.
- DGPS Survey Coordinates are verified by CRASC. Also Map showing Compensatory Afforestation land are verified with surveyed points compared with Orthorectified Canopus Satellite image and found that maps are correct to a confidence level of 99%.
- Total area proposed for Compensatory Afforestation comes in Pattola (Sinang R.F.) under Bhawanipatna Range, Kandhamal North Forest Division and works out to 25.485 Ha against identified area of 25.00 Ha (as mentioned in the D.F.O., Kandhamal North Forest Division letter) through detail survey and from the tabulated data files.



	Compensatory Afforestation Boundary
	Compensatory Afforestation Boundary Points

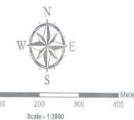


[Signature]
Divisional Forest Officer
Kandhamal North Division

[Signature]
Joint Forest Officer
Bhubaneswar

[Signature]
Joint Forest Officer
Bhubaneswar

MAP SHOWING COMPENSATORY AFForestation OVER AN AREA OF 25.00 HA IDENTIFIED IN PODAMUNDI (BRAHAMHANI RESERVE FOREST) UNDER BHAWANIPATNA RANGE IN KALAHANDI NORTH FOREST DIVISION AND KALAHANDI DISTRICT AGAINST FOREST AREA PROPOSED FOR DIVERSION OF 136.96 HA OF FOREST LAND (BALIGUDA FOREST DIVISION 94.9233 HA + KALAHANDI NORTH FOREST DIVISION 42.952 HA) FOR CONSTRUCTION OF 220 KV DC TRANSMISSION LINE FROM EXISTING 220/132 KV GRID SUB-STATION AT KESINGA, KALAHANDI DISTRICT TO PROPOSED 220/1323 KV GRID SUB STATION AT BALIGUDA (SIRTIGUDA), KANDHAMAL DISTRICT.

[illegible]

S. No.	Name of the RF	Mag. Area, Ha
1	Podamundi (Brahmahari Reserve Forest)	25.435
	Total	25.435

- DOPS Survey identified Compensatory Afforestation land in Padanahalli (Subdivision K. J. under Shivamogga Range, Kallahalli North Forest Division) for the forest areas proposed for the Grid extension of 22 KV DC Transmission line from existing 220KV/132 KV line for distribution at Kumbhari, Kallahalli demand center proposed in 2012/2013 KV Grid Substation at Sengur under K. Vargate Taluk, Kumbhari division land has been taken up by the Dapj Group Mangalore Marine (Erection), E.R.T. (Construction) Division, OPTCL, Belangur through M/s Visvesvaraya Consulting Services Pvt. Ltd., Bhubaneswar.
- DOPS Survey Coordinates are verified by ORSAC Also Maps showing Compensatory Afforestation land are verified with surveyal points compared with Ortho-aerialized Canopy Satellite image and found that maps are correct at a confidence level of 95%.
- Test are proposed for Compensatory Afforestation lands in Padanahalli (Subdivision K. J. under Shivamogga Range, Kallahalli North Forest Division) and work up to 24.00 hrs, against identified area of 2100 Ha. (as mentioned in the DTG, Kallahalli North Forest Division) heart through demand of forest and has submitted also.

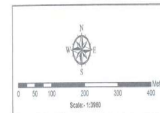
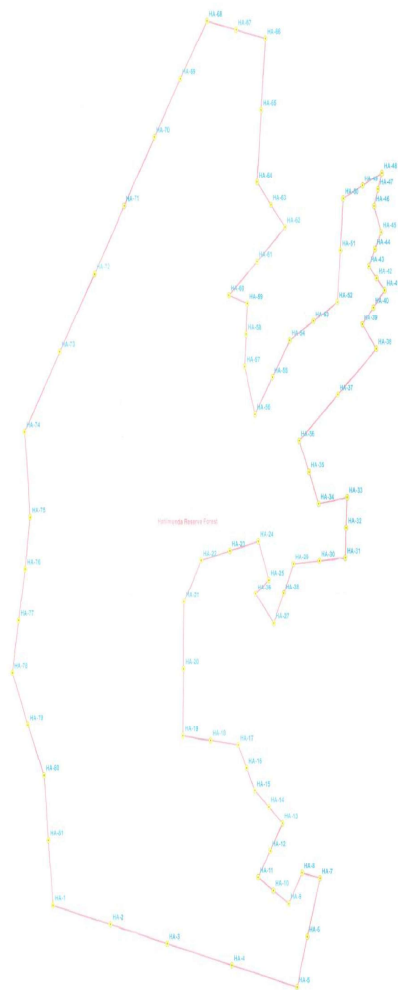


 J. S. Singh
 J. S. Singh
 J. S. Singh
 J. S. Singh
 J. S. Singh

Joint Director (Forest)
 District Forest Officer
 Bhadrachalam

Divisional Forest Officer
 Kothandaram North Division

MAP SHOWING COMPENSATORY AFFORSTATION OVER AN AREA OF 100.00 HA IDENTIFIED IN HATLIMUNDA RESERVE FOREST UNDER BIRMAHARA/JUR RANGE IN SUBARNAPUR FOREST DIVISION AND SUBARNAPUR DISTRICT AGAINST FOREST AREA PROPOSED FOR DIVERSION OF 136.966 HA OF FOREST LAND (BALIGUDA FOREST DIVISION 94.013 HA + KALAHANDI NORTH FOREST DIVISION 42.953 HA) FOR CONSTRUCTION OF 220 KV DC TRANSMISSION LINE FROM EXISTING 220/132 KV GRID SUB-STATION AT KESINGA, KALAHANDI DISTRICT TO PROPOSED 220/132/33 KV GRID SUB STATION AT BALIGUDA (SIRTIGURA), KANDHAMAL DISTRICT.



DGPS Surveyed Coordinates of Hatlimunda Reserve Forest Boundary Pillars

S. No.	Point No.	Easting	Northing	Latitude	Longitude
1	HA-1	192056.700	202529.426	21° 01' 12.2022" N	84° 58' 16.9488" E
2	HA-2	191688.895	202020.175	21° 01' 01.9988" N	84° 58' 12.5933" E
3	HA-3	190811.121	201049.861	21° 00' 50.7852" N	84° 58' 12.2254" E
4	HA-4	190513.539	201025.773	21° 00' 58.4938" N	84° 58' 14.5282" E
5	HA-5	190895.970	202030.286	21° 01' 01.1538" N	84° 58' 16.0028" E
6	HA-6	190716.786	202075.627	21° 01' 02.2665" N	84° 58' 16.0688" E
7	HA-7	189794.805	202034.407	21° 00' 53.7607" N	84° 58' 14.1477" E
8	HA-8	189714.380	202025.789	21° 00' 54.3807" N	84° 58' 14.0058" E
9	HA-9	190675.840	201023.893	21° 01' 12.2612" N	84° 58' 16.0082" E
10	HA-10	190622.775	202028.381	21° 01' 12.8878" N	84° 58' 16.0022" E
11	HA-11	190588.874	202030.761	21° 01' 13.7871" N	84° 58' 17.1002" E
12	HA-12	190525.581	202040.208	21° 01' 15.4842" N	84° 58' 18.2048" E
13	HA-13	190611.084	202042.240	21° 01' 17.0807" N	84° 58' 18.8982" E
14	HA-14	190612.883	202042.034	21° 01' 18.3952" N	84° 58' 19.1007" E
15	HA-15	190644.384	202045.120	21° 01' 19.2612" N	84° 58' 19.7988" E
16	HA-16	190614.874	202048.801	21° 01' 20.3862" N	84° 58' 19.0051" E
17	HA-17	190538.517	202042.120	21° 01' 22.0027" N	84° 58' 19.2938" E
18	HA-18	190611.474	202052.244	21° 01' 22.5967" N	84° 58' 19.4897" E
19	HA-19	190588.883	202050.383	21° 01' 22.9882" N	84° 58' 20.7882" E
20	HA-20	190581.088	202048.547	21° 01' 25.7031" N	84° 58' 21.6882" E
21	HA-21	190581.033	202048.877	21° 01' 26.8008" N	84° 58' 22.8042" E
22	HA-22	190541.862	202054.789	21° 01' 33.8878" N	84° 58' 24.8802" E
23	HA-23	190523.088	202052.776	21° 01' 35.8878" N	84° 58' 25.8968" E
24	HA-24	190524.547	202052.783	21° 01' 36.8812" N	84° 58' 25.2028" E
25	HA-25	190611.881	202054.403	21° 01' 37.0868" N	84° 58' 26.1998" E
26	HA-26	190588.883	202052.280	21° 01' 37.8868" N	84° 58' 26.8888" E
27	HA-27	190544.852	202072.363	21° 01' 38.8878" N	84° 58' 28.7828" E
28	HA-28	190611.088	202072.524	21° 01' 39.8878" N	84° 58' 29.8888" E
29	HA-29	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
30	HA-30	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
31	HA-31	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
32	HA-32	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
33	HA-33	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
34	HA-34	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
35	HA-35	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
36	HA-36	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
37	HA-37	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
38	HA-38	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
39	HA-39	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
40	HA-40	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
41	HA-41	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
42	HA-42	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
43	HA-43	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
44	HA-44	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
45	HA-45	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
46	HA-46	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
47	HA-47	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
48	HA-48	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
49	HA-49	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
50	HA-50	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
51	HA-51	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
52	HA-52	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
53	HA-53	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
54	HA-54	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
55	HA-55	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
56	HA-56	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
57	HA-57	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
58	HA-58	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
59	HA-59	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
60	HA-60	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
61	HA-61	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
62	HA-62	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
63	HA-63	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
64	HA-64	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
65	HA-65	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
66	HA-66	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
67	HA-67	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
68	HA-68	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
69	HA-69	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
70	HA-70	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
71	HA-71	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
72	HA-72	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
73	HA-73	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
74	HA-74	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
75	HA-75	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
76	HA-76	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
77	HA-77	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
78	HA-78	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
79	HA-79	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
80	HA-80	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E
81	HA-81	190611.088	202080.841	21° 01' 40.8878" N	84° 58' 30.8888" E

Area Statistics of Hatlimunda Reserve Forest		
S. No.	Name of the Reserve Forest	Map Area (Ha)
1	Hatlimunda Reserve Forest	100.00
	Total	100.00

- DGPS Survey of identified Compensatory Afforestation land in Hatlimunda R.F. under BirmaHara/Jur Range, Subarnapur Forest Division for the forest area proposed for diversion for construction of 220 KV DC Transmission line from existing 220/132 KV Grid Sub-Station at Kesinga, Kalahandi district to proposed 220/132/33 KV Grid Sub-Station at Sirtigura under K. Naganath (Tahsil), Kandhamal district has been carried out by the Deputy General Manager (Electrical), E.R.T. (Cons.) Division, OPCL, Bhubaneswar through M/s Visiontek Consultancy Services Pvt. Ltd., Bhubaneswar.
- DGPS Survey Coordinates are verified by GISAC. Also Maps showing Compensatory Afforestation land are verified with surveyed points compared with Geo-referenced Aerial Satellite image and found that maps are correct at a confidence level of 95%.
- Total area proposed for Compensatory Afforestation comes in Hatlimunda R.F. under BirmaHara/Jur Range, Subarnapur Forest Division and works out to 100.00 Ha, against identified area of 100.00 Ha (as mentioned in the D.F.O., Subarnapur Forest Division letter) through detail survey and from the submitted map files.



Legend	
	Compensatory Afforestation Boundary
	Compensatory Afforestation Boundary Points



For Forest Officer
Subarnapur Forest Division

For Forest Officer
BirmaHara/Jur Range

For Forest Officer
Subarnapur Forest Division

