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- DGPS Survey of forest areas proposed for diversion in Bamebari Iron & Mn. Mines - Block A of Jh. Tata Steel Ltd. has been carried out by the over agency through M/s. S.P.A.R.C. Pvt. Ltd., Bhubaneswar.

- DGPS Survey co-ordinates are verified by ORSAT. Also maps showing forest areas proposed for diversion are verified with Geo-referenced cadastral sheets and compared with Ortho-rectified Cartosat Satellite images and found that maps are correct at a confidence level of 75%.

- Total forest areas proposed for diversion in Block A are under Revenue forest category, comes in ten cadastral sheets of 4 Revenue villages and works out to 80.67HA from the submitted self files against the mentioned 82.057HA in the submitted land records.

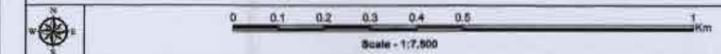
- Additional 17 maps showing village/cadastral sheets etc. forest areas proposed for diversion are attached here with.



Area Statement of Block-A											
Sl No	Village Name	Panch	Allocated Area		Map Area		KISSAM	Land Class	Subik Plot No	Subik Klassam	Remark
			Area	Hectare	Area	Hectare					
1	Bandhubeda 52	Panch-7	0.275	0.107	1.576	0.338	Barbat-II	DLC Forest	120	Barbat	Safety Zone
2	Bandhubeda 52	Panch-7	0.600	0.243	1.251	0.107	Barbat-II	ULC Forest	196	Barbat	Safety Zone
3	Bandhubeda 52	Panch-7	0.060	0.024	1.044	0.034	Nayanagar	Sabik Forest	88	Jungle	Ashing Area
4	Bandhubeda 52	Panch-7	0.075	0.028	3.009	0.029	Nayanagar	Sabik Forest	88	Jungle	Ashing Area
5	Bandhubeda 52	Panch-7	0.290	0.113	3.268	0.107	Chhatrapati	Sabik Forest	88	Jungle	Ashing Area
6	Bandhubeda 52	Panch-7	0.020	0.007	1.053	0.442	Patil	Sabik Forest	88	Jungle	Ashing Area
7	Bandhubeda 52	Panch-7	0.080	0.024	0.081	0.075	Chhatrapati	Sabik Forest	88	Jungle	Ashing Area
8	Bandhubeda 52	Panch-7	1.100	0.482	1.340	0.542	Chhatrapati	Sabik Forest	88	Jungle	Ashing Area
9	Bandhubeda 52	Panch-7	0.090	0.024	0.049	0.020	Chhatrapati	Sabik Forest	88	Jungle	Ashing Area
10	Bandhubeda 52	Panch-7	0.060	0.024	0.065	0.022	Chhatrapati	Sabik Forest	88	Jungle	Ashing Area
11	Bandhubeda 52	Panch-7	0.270	0.089	0.354	0.082	Patil	Sabik Forest	88	Jungle	Ashing Area
12	Bandhubeda 52	Panch-7	0.940	0.130	0.388	0.145	Nala	Sabik Forest	88	Jungle	Ashing Area
13	Bandhubeda 52	Panch-7	0.930	0.120	0.429	0.138	Patil	DLC Forest	88	Jungle	Ashing Area
14	Bandhubeda 52	Panch-7	0.880	0.158	0.513	0.373	Patil	Sabik Forest	88	Jungle	Ashing Area
15	Bandhubeda 52	Panch-7	1.000	0.405	1.918	0.775	Patil	Sabik Forest	88	Jungle	Ashing Area
16	Bandhubeda 52	Panch-7	1.190	0.437	1.265	0.689	Barbat-I	Sabik Forest	88	Jungle	Ashing Area
17	Bandhubeda 52	Panch-7	0.310	0.122	0.385	0.137	Nayanagar	Sabik Forest	88	Jungle	Ashing Area
18	Bandhubeda 52	Panch-7	0.316	0.122	0.312	0.116	Road	Sabik Forest	88	Jungle	Ashing Area
19	Bandhubeda 52	Panch-7	0.340	0.130	0.267	0.108	Nayanagar	Sabik Forest	88	Jungle	Ashing Area
20	Bandhubeda 52	Panch-7	1.14282	0.208	0.016	0.018	Chhatrapati	Sabik Forest	88	Jungle	Ashing Area
21	Bandhubeda 52	Panch-7	2.2471	0.006	0.594	0.006	Chhatrapati	Sabik Forest	88	Jungle	Ashing Area
22	Bandhubeda 52	Panch-7	0.930	0.348	0.354	0.344	Patil	Sabik Forest	88	Jungle	Ashing Area
23	Bandhubeda 52	Panch-7	1.28392	0.140	0.361	0.130	Patil	Sabik Forest	88	Jungle	Ashing Area
24	Bandhubeda 52	Panch-7	1.24280	0.096	0.096	0.097	Patil	Sabik Forest	88	Jungle	Ashing Area
25	Bandhubeda 52	Panch-7	1.24281	0.020	0.020	0.020	Patil	Sabik Forest	88	Jungle	Ashing Area
26	Bandhubeda 52	Panch-7	2.2471	0.006	0.594	0.006	Chhatrapati	Sabik Forest	88	Jungle	Ashing Area
27	Bandhubeda 52	Panch-7	1.35143	0.030	0.112	0.096	Chhatrapati	Sabik Forest	88	Jungle	Ashing Area
28	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
29	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
30	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
31	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
32	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
33	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
34	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
35	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
36	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
37	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
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42	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
43	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
44	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
45	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
46	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
47	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
48	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
49	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
50	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
51	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
52	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
53	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
54	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
55	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
56	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
57	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
58	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
59	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
60	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
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62	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
63	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
64	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
65	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
66	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
67	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
68	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
69	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
70	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
71	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
72	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
73	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
74	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
75	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
76	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
77	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
78	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
79	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
80	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
81	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
82	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
83	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
84	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
85	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
86	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
87	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
88	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
89	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
90	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
91	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
92	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
93	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88	Jungle	Ashing Area
94	Bandhubeda 52	Panch-7	1.8121	0.130	0.296	0.122	Patil	DLC Forest	88</		

**Map Showing DGPS Surveyed Co-ordinates and Boundary of Forest Area Proposed to be Diverted within the Jadibahal Block (B) of Bamebari Lease for Iron & Manganese Ore in Village Jadibahal No. 51 & Jajanga No. 42 under Babil Tahasil of Champua Sub-division in Keonjhar District of M/s Tata Steel Ltd.**

Keonjhar Forest Division, ODISHA



**LEGEND**

- DGPS Observation in Forest Pillar
- △ Trisimal
- ▭ ML Boundary
- ▨ Asking Area
- Lease Pillar
- Dosimal
- ⋯ Village Boundary
- ▨ Diverted Area
- SCP/DGPS Observation Point
- Square
- ▭ Forest Plot Boundary
- ▨ KF
- ▨ Safety Zone
- ▨ DLC
- ▨ Sabik Forest

**DGPS Observation Pillar Co-ordinates**

Village Name	SCP/DGPS Observation Id	UTM Co-ordinates		Geographic Co-ordinates	
		Easting	Northing	Longitude	Latitude
Jadibahal S1	4	334967.022	2425900.617	88°24'7.572492"	N22°55'46.765452"
	47	336998.021	2425917.272	88°25'4.4004"	N22°55'47.856648"
	63	335026.546	2426613.889	88°24'11.827116"	N22°56'9.999304"
	66	335382.533	2427027.365	88°24'21.643236"	N22°56'23.538876"
	67	336185.325	2426572.486	88°24'49.78332"	N22°56'9.020472"
Jadibahal S2	75	335758.917	2426823.932	88°24'34.668052"	N22°56'17.052288"
	1	335109.726	2425400.319	88°24'12.51750"	N22°55'30.946012"
	3	334955.075	2425679.617	88°24'7.236432"	N22°55'39.576216"
	45	335486.972	2425889.238	88°25'0.54084"	N22°55'46.907904"
	46	336441.754	2425660.818	88°24'59.082308"	N22°55'36.215076"
Jajanga S3	48	336543.098	2425233.732	88°25'3.730864"	N22°55'25.514768"
	71	335655.944	2424944.213	88°24'31.892976"	N22°55'15.903228"
	25	336730.283	2427487.761	88°25'8.444928"	N22°56'38.961096"
	26	336684.123	2427170.206	88°25'6.950424"	N22°56'28.621212"
	27	338121.157	2427368.208	88°25'56.959288"	N22°56'35.538576"
29	336688.182	2426796.709	88°25'7.718370"	N22°56'3.477804"	
	33	338185.225	2426627.486	88°24'40.78332"	N22°56'0.004772"
75	335758.917	2426823.932	88°24'34.668052"	N22°56'17.052288"	



- DGPS survey of forest areas proposed for diversion in Bamebari Iron & Mn. Lease - Block B of M/s. Tata Steel Ltd. has been carried out by the user agency through M/s. SPARC Pvt. Ltd., Bhubaneswar.

- DGPS survey co-ordinates are verified by OREC-4110 maps showing forest areas proposed for diversion are verified with geo-referenced cadastral sheets and compared with Ortho-rectified Cartosat satellite image and found that maps are correct at a confidence level of 95%.

- Total forest area proposed for diversion in this Block B is under Revenue forest category, comes in three categories of the revenue in Nages and work out to 53.9754 Ha. from the submitted schedule against the mentioned 53.976 Ha. in the submitted land schedule.

- Additional 3 maps showing cadastral sheets of forest areas proposed for diversion are attached here with.



**Area Statement of Block-B**

Sl No	Village Name	Patch	Hal Plot No	Proposed Area		Map Area		KISSAM	Land Class	Remark	Sabik Plot No	Sabik KISSAM	
				Acres	Hectare	Acres	Hectare						
1	Jadibahal S1	Patch-6	3(P)	7.109	2.875	7.430	3.037	Parbat-2	DLC Forest	Asking Area	1	Jungle	
2		Patch-6/7	3(P)	22.582	9.131	22.989	9.303	Parbat-2	DLC Forest	Asking Area	1	Jungle	
3		Patch-6/7/8/9	64(P)	15.741	6.370	13.920	5.833	Parbat-2	DLC Forest	Asking Area	1	Jungle	
4		Patch-6/9/11/13	65(P)	23.395	9.468	0.183	0.074	Parbat-2	DLC Forest	Safety Zone	1	Jungle	
5		Patch-8/10/11	66(P)	8.433	3.413	0.326	0.132	Parbat-2	DLC Forest	Safety Zone	1	Jungle	
6	Jadibahal S2	Patch-14/15	67/275(P)	0.538	0.218	21.482	8.693	Parbat-2	DLC Forest	Asking Area	1	Jungle	
7		Patch-15/16	67/276(P)	0.077	0.031	6.876	2.783	Parbat-2	DLC Forest	Asking Area	1.94	Jungle	
8	Jajanga S3	Patch-1	436	3.240	1.311	3.196	1.293	Rakht	Sabik forest	Sabik Forest	354	Jungle	
9			426/1296(P)	0.100	0.040	0.099	0.040	Gharabari	Sabik forest	Sabik Forest	353	Jungle	
10			426/1297(P)	0.010	0.004	0.045	0.018	Gharabari	Sabik forest	Sabik Forest	353	Jungle	
11			426/1298(P)	0.100	0.040	0.111	0.045	Gharabari	Sabik forest	Sabik Forest	353	Jungle	
12			426(P)	0.420	0.170	0.366	0.148	Gharabari	Sabik forest	Sabik Forest	353	Jungle	
13			429(P)	8.160	3.362	6.876	2.701	Gharabari	Sabik forest	Sabik Forest	353	Jungle	
14			426/1285(P)	0.020	0.008	0.026	0.010	Gharabari	Sabik forest	Sabik Forest	353	Jungle	
15			426/1282(P)	0.050	0.020	0.050	0.020	Gharabari	Sabik forest	Sabik Forest	353	Jungle	
16			437(P)	0.800	0.243	0.291	0.118	Rakht	Sabik forest	Sabik Forest	353,354	Jungle	
17			438(P)	0.400	0.162	0.330	0.134	Rakht	Sabik forest	Sabik Forest	353,354	Jungle	
18			439(P)	0.600	0.202	0.327	0.132	Rakht	Sabik forest	Sabik Forest	353,354	Jungle	
19			Patch-3	440(P)	13.093	5.299	12.891	5.217	Parbat-2	DLC Forest	Asking Area	353,354	Jungle
20							0.123	0.050	Parbat-2	DLC Forest	Safety Zone	353,354	Jungle
21							0.089	0.036	Parbat-2	DLC Forest	Asking Area	353,354	Jungle
20			Patch-5	440/1305(P)	0.020	0.008	0.037	0.015	Gharabari	Sabik forest	Sabik Forest	353/14/1267	Jungle
21							0.007	0.003	Parbat-3	DLC Forest	Asking Area	353,354	Jungle
21			Patch-1/3/4	442(P)	8.670	3.609	10.231	4.140	Parbat-3	DLC Forest	Asking Area	353,354	Jungle
22							20.397	8.255	Parbat-3	DLC Forest	Asking Area	354	Jungle
22	Patch-1/2/3	443(P)	23.801	9.632	0.133	0.054	Parbat-3	DLC Forest	Safety Zone	354	Jungle		
23					0.966	0.270	Gharabari	Sabik forest	Sabik Forest	354	Jungle		
<b>Total Area</b>				<b>138.321</b>	<b>56.976</b>	<b>133.378</b>	<b>53.976</b>						

DGPS Survey Conducted and Map Prepared by :-  
Spatial Planning And Analysis Research Centre Pvt. Ltd.,  
E/11, Infocity, Chandaka Industrial Estate,  
Bhubaneswar - 751024.

