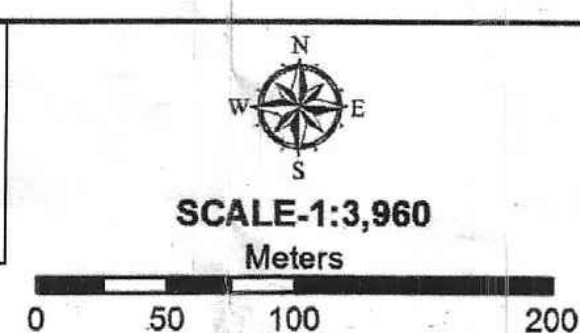


MAP SHOWING DGPS SURVEYED FOREST AREA PROPOSED FOR DIVERSION
OF KALAMANG WEST (NORTHERN PART) IRON ORE BLOCK,
OF TATA STEEL BSL LIMITED IN SUNDARGARH AND KEONJHAR DISTRICT, ODISHA.



21°57'30"N

21°57'30"N

21°56'30"N

85°17'30"E

85°18'0"E

85°18'30"E



- DGPS Survey of forest areas proposed for diversion in Kalamang West Iron Ore Block of Tata Steel BSL Limited in Keonjhar and Sundargarh districts has been carried out by the user agency through M/s. Visiontek Consultancy Services Pvt. Ltd., Bhubaneswar.

- DGPS Survey Co-ordinates are verified by ORSAC. Also Maps showing forest areas proposed for diversion are verified with geo-referenced cadastral sheets compared with Ortho-rectified Cartosat Satellite image and found that maps are correct at a confidence level of 95%.

- All the forest areas proposed for diversion comes under Revenue forest category, in three cadastral sheets of two Revenue villages in Sundargarh district and one cadastral sheet of one Revenue village in Keonjhar district. Total forest areas proposed for diversion works out to 42.608 Ha. includes 25.950 Ha. under Bonai Forest Division, Sundargarh district and 16.658 Ha. under Keonjhar Forest Division, Keonjhar district from the submitted .shp files against the allotted area of 42.608 Ha. (25.950 Ha. under Bonai Forest Division, Sundargarh district and 16.658 Ha. under Keonjhar Forest Division, Keonjhar district) in the submitted land records issued by Directorate of Mines, Govt. of Odisha.



Shri M. K. Sanabada
Artist, ORSAC
Bhubaneswar

FOR TATA STEEL BSL LIMITED

CO-ORDINATES OF ML BOUNDARY

PILLAR ID	EASTING	NORTHING	LONGITUDE	LATITUDE
A	323335.0251	242797.333	85°17'21.453"E	21°56'50.039"N
B	323508.2301	2428072.333	85°17'27.450"E	21°56'53.352"N
C	323608.2301	242789.128	85°17'31.002"E	21°56'47.758"N
D	324127.8454	2428199.128	85°17'48.993"E	21°56'57.693"N
E	324227.8454	2428025.923	85°17'52.545"E	21°56'52.104"N
F	324371.8512	2428109.064	85°17'57.532"E	21°56'54.859"N
G	324361.311	2428214.562	85°17'57.123"E	21°56'58.285"N
H	324189.509	2428511.97	85°17'51.021"E	21°57'7.892"N
I	324232.952	2428534.445	85°17'52.526"E	21°57'8.638"N
J	324140.489	2428635.98	85°17'49.265"E	21°57'11.965"N
K	323868.436	2428622.799	85°17'39.789"E	21°57'11.379"N
L	323772.853	2428637.727	85°17'36.452"E	21°57'11.829"N
M	323694.725	2428659.923	85°17'33.721"E	21°57'12.523"N
N	323614.817	2428673.011	85°17'30.931"E	21°57'12.919"N
O	323697.502	2428828.614	85°17'33.752"E	21°57'18.008"N
P	323711.256	2428858.187	85°17'34.220"E	21°57'18.974"N
Q	323763.697	2428955.097	85°17'36.010"E	21°57'22.144"N
R	323816.321	2429053.201	85°17'37.806"E	21°57'25.352"N
S	323892.112	2429196.785	85°17'40.391"E	21°57'30.048"N
T	323928.883	2429267.131	85°17'41.646"E	21°57'32.348"N
U	322918.563	2428692.767	85°17'6.659"E	21°57'13.309"N
V	322985.0251	2428578.551	85°17'9.020"E	21°57'9.620"N

AREA STATISTICS OF FOREST PLOTS

SL. NO.	VILLAGE NAME	PLOT NO	KISAMA	FOREST TYPE	DISTRICT	ALLOTTED AREA IN Ha.	MAP AREA IN Ha.
2		290				6.839	6.839
5		372				1.103	1.103
1	GANDHALPADA	375	JUNGLE	VF	KEONJHAR	1.567	1.567
3		376				5.016	5.016
4		377				2.133	2.133
1		1	PAHAD	DLC		3.464	3.464
2		4	JUNGLE	VF		9.556	9.556
3	GHODABUDHANI	6	PAHAD	DLC		8.762	8.762
4		103	JUNGLE	VF		0.602	0.602
5		109	PAHAD	DLC	SUNDARGARH	0.235	0.235
6		1	PAHAD	DLC		0.075	0.075
7		17	JUNGLE	VF		0.311	0.311
8	KALAMANAGA	25	DUNGARI	DLC		2.303	2.303
9		498	DUNGARI	DLC		0.258	0.258
10		500	DUNGARI	DLC		0.384	0.384
TOTAL AREA						42.608	42.608

CO-ORDINATES OF FOREST PILLARS

POINT ID	EASTING	NORTHING	LONGITUDE	LATITUDE	POINT ID	EASTING	NORTHING	LONGITUDE	LATITUDE	POINT ID	EASTING	NORTHING	LONGITUDE	LATITUDE
1	323049.3586	2428638.526	85°17'11.23836"E	21°57'11.59272"N	91	323909.3364	2428477.236	85°17'41.27064"E	21°57'08.66108"N	182	323877.5299	2428066.728	85°17'40.32168"E	21°56'53.30400"N
2	323006.5241	2428648.329	85°17'09.74184"E	21°57'11.89584"N	92	323911.8765	2428480.411	85°17'41.35812"E	21°57'08.76512"N	183	323869.4412	2428056.452	85°17'39.34680"E	21°56'52.95848"N
3	323013.1387	2428704.421	85°17'09.95028"E	21°57'13.72176"N	93	323975.1649	2428483.798	85°17'43.56240"E	21°57'08.89832"N	184	323843.722	2428052.688	85°17'39.14880"E	21°56'52.83528"N
4	323081.7967	2428698.381	85°17'12.34536"E	21°57'13.55040"N	94	324011.995	2428507.081	85°17'44.83680"E	21°57'07.66832"N	185	323814.8328	2428038.836	85°17'38.14224"E	21°56'52.37448"N
5	323133.6832	2428689.137	85°17'14.15724"E	21°57'13.26888"N	95	324037.6067	2428527.401	85°17'45.72132"E	21°57'08.33832"N	186	323802.9378	2428029.752	85°17'37.73652"E	21°56'52.07496"N
6	323135.9092	2428771.511	85°17'14.20260"E	21°57'15.94764"N	96	324056.1176	2428522.565	85°17'46.36860"E	21°57'08.18784"N	187	323789.0737	2428014.013	85°17'37.25952"E	21°56'51.55800"N
7	323184.1958	2428774.157	85°17'15.88452"E	21°57'16.05096"N	97	324057.5907	2428530.857	85°17'46.41648"E	21°57'08.45784"N	188	323774.9472	2427995.382	85°17'36.77424"E	21°56'50.94744"N
8	323235.1282	2428774.157	85°17'17.65932"E	21°57'16.06968"N	98	324061.9505	2428538.675	85°17'46.56552"E	21°57'08.71380"N	189	323755.764	2428115.126	85°17'36.83492"E	21°56'54.65184"N
9	323292.4276	2428767.731	85°17'19.65876"E	21°57'15.88140"N	99	324067.1869	2428546.932	85°17'46.74400"E	21°57'08.98416"N	190	323737.8884	2428107.787	85°17'35.192752"E	21°56'53.76984"N
10	323369.4045	2428755.636	85°17'22.34616"E	21°57'15.51636"N	100	324089.5498	2428549.207	85°17'47.52312"E	21°57'09.06624"N	191	323728.8379	2428071.648	85°17'34.190016"E	21°56'53.24928"N
11	323392.5556	2428754.974	85°17'23.15328"E	21°57'15.50304"N	101	324103.5952	2428551.84	85°17'47.01164"E	21°57'09.15660"N	192	323728.4249	2428074.577	85°17'34.197880"N	21°56'53.30744"N
12	323431.5817	2428751.006	85°17'24.51480"E	21°57'15.38820"N	102	324103.5952	2428551.84	85°17'47.01164"E	21°57'09.15660"N	193	323701.4462	2428085.024	85°17'32.102387"E	21°56'53.68992"N
13	323537.6679	2428704.913	85°17'28.23000"E	21°57'13.92840"N	103	324115.851	2428572.312	85°17'48.43008"E	21°57'09.82656"N	194	323316.4828	2428095.717	85°17'20.25872"E	21°56'54.04308"N
14	323540.1815	2428645.199	85°17'28.34052"E	21°57'11.98800"N	104	324121.671	2428574.708	85°17'48.63264"E	21°57'09.90684"N	195	323310.9866	2428103.653	85°17'21.26472"E	21°56'54.30624"N
15	323212.3399	2428672.03	85°17'16.90512"E	21°57'12.74112"N	105	324124.5163	2428575.273	85°17'48.73164"E	21°57'09.92628"N	196	323343.2866	2428093.181	85°17'21.68664"E	21°56'54.50648"N
16	323196.7883	2428675.009	85°17'16.36188"E	21°57'12.83256"N	106	324135.6453	2428575.866	85°17'49.11936"E	21°57'09.94932"N	197	323351.4096	2428115.441	85°17'21.96888"E	21°56'54.69644"N
17	323199.4057	2428603.085	85°17'15.48104"E	21°57'10.49508"N	107	324139.3813	2428583.371	85°17'49.24644"E	21°57'10.19484"N	198	323353.1893	2428119.13	85°17'22.02864"E	21°56'54.81472"N
18	323171.0952	2428635.894	85°17'15.48168"E	21°57'11.55132"N	108	324144.2631	2428591	85°17'49.41384"E	21°57'10.44468"N	199	323357.7155	2428125.755	85°17'22.18380"E	21°56'55.03452"N
19	323110.7701	2428666.586	85°17'13.36740"E	21°57'12.52728"N	109	324153.5815	2428585.799	85°17'49.74036"E	21°57'10.27872"N	200	323362.0562	2428132.439	85°17'22.34796"E	21°56'55.25340"N
20	323097.7526	2428621.315	85°17'12.93144"E	21°57'11.05092"N	110	324170.3105	2428581.687	85°17'50.32500"E	21°57'10.15128"N	201	323367.8262	2428136.481	85°17'22.53192"E	21°56'55.38696"N
21	323119.6601	2428614.648	85°17'13.69752"E	21°57'10.84212"N	111	324176.4362	2428579.788	85°17'50.53920"E	21°57'10.09152"N	202	323368.0932	2428142.221	85°17'22.53732"E	21°56'55.57344"N
22	323118.5489	2428566.546	85°17'13.67772"E	21°57'09.27792"N	112	324184.4599	2428576.907	85°17'50.82000"E	21°57'10.00800"N	203	323371.3951	2428156.162	85°17'22.74532"E	21°56'56.32000"N
23	323139.1864	2428562.26	85°17'14.39844"E	21°57'09.14616"N	113	324188.4324	2428574.189	85°17'50.95968"E	21°57'09.91404"N	204	323371.8556	2428178.026	85°17'22.65612"E	21°56'56.73912"N
24	323139.0488	2428545.882	85°17'14.39988"E	21°57'08.61336"N	114	324187.7656	2428571.044	85°17'50.93736"E	21°57'09.81144"N	205	323349.7854	2428187.754	85°17'21.88356"E	21°56'57.04728"N
25	323021.9103	2428552.769	85°17'10.31496"E	21°57'08.79480"N	115	324199.8699	2428563.246	85°17'51.36252"E	21°57'09.56232"N	206	323333.799	2428188.451	85°17'21.32592"E	21°56'57.06044"N
26	323021.3811	2428528.163	85°17'10.30632"E	21°57'07.99452"N	116	324204.2276	2428571.5152	85°17'52.07928"E	21°57'09.46260"N	207	323339.7012	2428196.078	85°17'21.54192"E	21°56'56.08280"N
27	323012.0076	2428531.816	85°17'09.97836"E	21°57'08.11008"N	117	324211.8355	2428554.007	85°17'51.78300"E	21°57'09.26640"N	208	323325.364	2428158.828	85°17'21.04224"E	21°56'56.10200"N
28	323134.9411	2428318.888	85°17'14.34516"E	21°57'01.23228"N	118	324220.2751	2428548.366	85°17'52.07928"E	21°57'09.08604"N	209	323323.6208	2428165.147	85°17'20.98032"E	21°56'56.30120"N
29	323132.9086	2428340.918	85°17'14.26596"E	21°57'01.94796"N	119	324216.3883	2428609.736	85°17'50.10792"E	21°57'11.06100"N	210	323319.5443	2428164.95	85°17'20.783848"E	21°56'56.29488"N
30	323152.9766	2428344.05	85°17'14.70588"E	21°57'02.06568"N	120	324157.3245	2428582.66	85°17'51.25308"E	21°57'10.50984"N	211	323309.6625	2428154.222	85°17'20.47740"E	21°56'55.94244"N
31	323133.9086	2428349.018	85°17'14.26596"E	21°57'01.94796"N	121	324193.8345	2428602.65	85°17'51.25368"E	21°57'10.08828"N	212	323300.5867	2428144.858	85°17'20.18544"E	21°56'55.63500"N
32	323172.8242	2428344.831	85°17'14.78400"E	21°57'02.08044"N	122	324200.9872	2428318.02	85°17'51.49644"E	21°57'10.59048"N	213	323296.634	2428139.691	85°17'19.20292"E	21°56'55.46508"N
33	323157.7456	2428348.113	85°17'15.12852"E	21°57'02.19096"N	123	324214.5871	2428344.954	85°17'51.95976"E	21°57'10.47104"N	214	323290.7987	2428132.914	85°17'19.84920"E	21°56'55.24296"N
34	323158.7574	2428383.159	85°17'15.15012"E	21°57'03.33036"N	124	324224.8427	2428352.784	85°17'52.31400"E	21°57'10.72916"N	215	323284.557	2428124.563	85°17'19.63500"E	21°56'55.02096"N
35	323160.233	2428406.364	85°17'15.19260"E	21°57'04.08528"N	125	324240.906	2428364.61	85°17'52.86948"E	21°57'10.31976"N	216	323276.482	2428246.937	85°17'15.82080"E	21°56'58.90848"N
36	323162.015	2428416.263	85°17'15.25092"E	21°57'04.40784"N	126	324247.5139	2428370.53	85°17'53.09736"E	21°57'10.33416"N	217	323219.1588	2428273.019	85°17'17.33712"E	21°56'56.52096"N
37	323198.7078	2428406.943	85°17'16.53324"E	21°57'04.11840"N	127	324252.2277	2428359.106	85°17'53.26620"E	21°57'10.94480"N	218	323221.2963	2428178.733	85°17'17.40912"E	21°56'56.70744"N
38	323209.526	2428402.126	85°17'16.91196"E	21°57'03.96540"N	128	324258.3326	2428342.261	85°17'53.48544"E	21°57'10.39940"N	219	323240.5905	2428225.547	85°17'18.06324"E	21°56'58.23360"N
39	323217.355	2428400.2	85°17'17.18556"E	21°57'03.90564"N	129	324261.2185	2428317.287	85°17'53.59560"E	21°57'10.58832"N	220	323245.817	2428237.767	85°17'18.24072"E	21°56'58.63508"N
40	323229.1424	2428395.403	85°17'17.59848"E	21°57'03.75408"N	130	324263.782	2428297.181	85°17'53.69244"E	21°57'10.95940"N	221	323235.2197	2428238.369	85°17'17.87136"E	21°56'58.65160"N
41	323245.0194	2428390.489	85°17'18.15360"E	21°57'03.60000"N	131	324268.231	2428299.628	85°17'53.14992"E	21°57'10.00944"N	222	323202.3709	2428243.826	85°17'16.72440"E	21°56'58.81668"N
42	323274.2943	2428381.238	85°17'19.17744"E	21°57'03.31020"N	132	324273.5482	2428300.45	85°17'51.94068"E	21°57'10.23848"N	223	323181.5779	2428245.948	85°17'15.99900"E	21°56'58.87824"N
43	323300.2773	2428373.767	85°17'20.08572"E	21°57'03.07656"N	133	324281.5482	2428300.45	85°17'51.94068"E	21°57'10.23848"N	224	322990.8432	2428568.473	85°17'09.22632"E	21°57'09.29412"N
44	323320.5907	2428367.629	85°17'20.79600"E	21°57'02.88432"N	134	324309.9786	2428073.342	85°17'55.38912"E	21°56'53.67516"N					
45	323328.4985	2428362.088	85°17'21.07392"E	21°57'02.70720"N	135	324278.0581	2428072.758	85°17'54.27708"E	21°56'53.64456"N					
46	323340.2039	2428354.075	85°17'21.48468"E	21°57'02.45088"N	136	324259.376	2428073.891	85°17'53.62548"E	21°56'53.67480"N					
47	323344.58	2428350.834	85°17'21.63840"E	21°57'02.34720"N	137	324251.0591	2428069.253	85°17'53.33748"E	21°56'53.52108"N					
48	323353.6671	2428343.064	85°17'21.95808"E	21°57'02.09772"N	138	324197.5363	2428074.8	85°17'51.46872"E	21°56'53.79972"N					
49	323363.3863	2428335.185	85°17'22.30008"E	21°57'01.84500"N	139	324139.144	2428181.611	85°17'49.39404"E	21°56'53.13332"N					
50	323372.9684	2428327.084	85°17'22.63704"E	21°57'01.58544"N	140	324157.7386	2428179.3	85°17'50.04276"E	21°56'53.06492"N					
51	323379.4136	2428322.198	85°17'22.86348"E	21°57'01.42884"N	141	324207.4397	2428172.097	85°17'51.77760"E	21°56'53.84892"N					
52	323385.0152	2428325.279	85°17'23.05752"E	21°57'01.53108"N	142	324232.8617	2428165.93	85°17'52.66898"E	21°56'56.68980"N					
53	323392.1617	2428328.			143	324270.0638	2428162.07	85°17'53.98988"E	21°56'55.54544"N					
54	323403.6537	2428315.148	85°17'23.71092"E	21°57'01.20852"N	144									