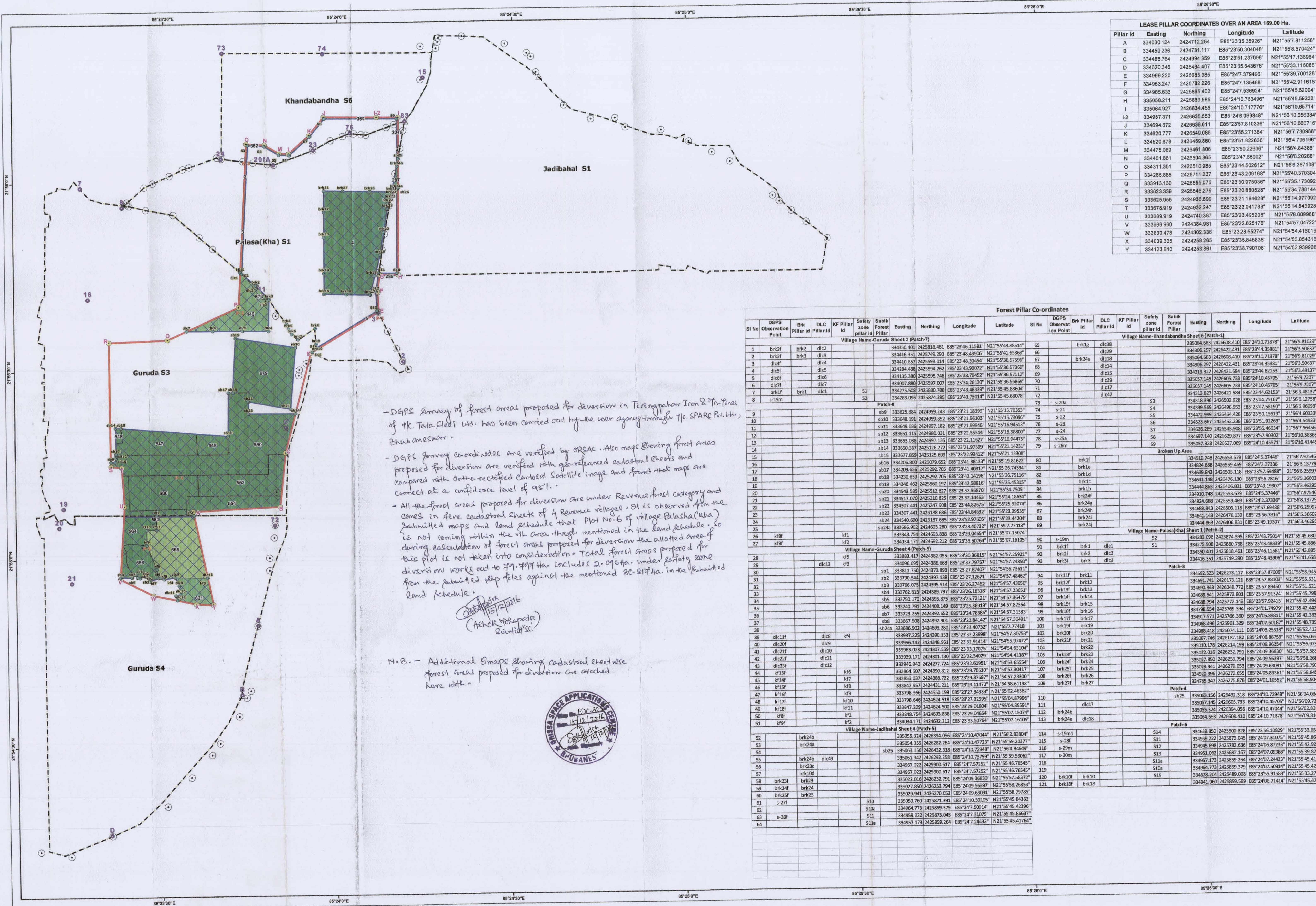




LEASE PILLAR COORDINATES OVER AN AREA 169.00 Ha.					
Pillar Id	Easting	Northing	Longitude	Latitude	
A	334030.124	2424712.254	E85°23'35.35929"	N21°55'57.811256"	
B	334450.256	2424731.117	E85°23'50.304048"	N21°55'58.570424"	
C	334488.764	2424994.359	E85°23'51.237098"	N21°55'57.138964"	
D	334620.346	2425484.407	E85°23'55.643676"	N21°55'53.110888"	
E	334659.220	2425883.385	E85°24'7.379498"	N21°55'53.700128"	
F	334953.247	2425782.226	E85°24'7.135488"	N21°55'54.911616"	
G	334965.633	2425885.402	E85°24'7.536924"	N21°55'54.820044"	
H	335058.211	2425883.585	E85°24'10.763496"	N21°55'54.592322"	
I	335084.927	2426834.455	E85°24'10.717776"	N21°55'54.657144"	
J	334957.371	2426835.553	E85°24'6.969348"	N21°55'54.658384"	
K	334684.572	2426838.611	E85°23'57.810336"	N21°55'58.666716"	
L	334620.777	2426546.085	E85°23'55.271364"	N21°55'57.730988"	
M	334475.089	2426481.806	E85°23'51.822636"	N21°55'56.796196"	
N	334401.861	2426504.365	E85°23'47.65902"	N21°55'56.20268"	
O	334311.351	2426510.985	E85°23'44.602612"	N21°55'56.387108"	
P	334265.885	2425711.237	E85°23'43.209168"	N21°55'54.370304"	
Q	333913.130	2425555.075	E85°23'30.675036"	N21°55'53.173092"	
R	333623.338	2425456.275	E85°23'20.880528"	N21°55'53.788144"	
S	333625.665	2424936.899	E85°23'21.194628"	N21°55'54.977092"	
T	333678.919	2424932.247	E85°23'23.041788"	N21°55'54.843928"	
U	333689.919	2424740.387	E85°23'23.495208"	N21°55'55.009988"	
V	333688.960	2424384.981	E85°23'22.622176"	N21°55'54.416016"	
W	333830.478	2424302.398	E85°23'25.845638"	N21°55'53.054316"	
X	334039.335	2424259.285	E85°23'35.796708"	N21°55'52.936908"	
Y	334123.910	2424253.861	E85°23'38.796708"	N21°55'52.936908"	

Forest Pillar Co-ordinates											
Sl No	DGPS Observation Point	Brk Pillar Id	DLC Pillar Id	KF Pillar Id	Safety zone pillar Id	Sabik Forest Pillar Id	Easting	Northing	Longitude	Latitude	
Village Name-Guruda Sheet 3 (Patch-7)											
1	brk2f	brk2	dcl2				334350.401	2425818.461	E85°23'46.11581"	N21°55'43.88514"	65
2	brk3f	brk3	dcl3				334416.351	2425749.290	E85°23'48.43906"	N21°55'41.65886"	66
3	dcl4f		dcl4				334410.857	2425593.014	E85°23'48.30544"	N21°55'36.57596"	67
4	dcl5f		dcl5				334135.390	2425595.746	E85°23'38.70452"	N21°55'36.57122"	68
5	dcl6f		dcl6				334007.880	2425597.007	E85°23'34.26130"	N21°55'36.56869"	69
6	dcl7f		dcl7				334275.508	2425880.788	E85°23'43.48339"	N21°55'36.58864"	70
7	brk1f	brk1	dcl1				334283.096	2425374.395	E85°23'43.79014"	N21°55'45.66078"	71
8	s-19m										72
Village Name-Khandabandha Sheet 6 (Patch-1)											
9							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	73
10							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	74
11							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	75
12							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	76
13							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	77
14							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	78
15							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	79
16							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	80
17							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	81
18							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	82
19							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	83
20							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	84
21							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	85
22							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	86
23							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	87
24							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	88
25							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	89
26							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	90
27							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	91
28							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	92
29							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	93
30							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	94
31							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	95
32							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	96
33							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	97
34							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	98
35							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	99
36							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	100
37							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	101
38							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	102
39							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	103
40							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	104
41							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	105
42							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	106
43							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	107
44							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	108
45							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	109
46							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	110
47							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	111
48							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	112
49							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	113
50							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	114
51							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	115
52							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	116
53							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	117
54							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	118
55							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	119
56							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	120
57							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	121
58							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	122
59							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	123
60							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	124
61							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	125
62							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	126
63							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	127
64							334306.297	2426422.431	E85°24'10.71878"	N21°56'9.81029"	128

- DGPS Survey of forest areas proposed for diversion in Tiringpahar Iron & Mn. Forests of M/s. Tata Steel Ltd. has been carried out by the user agency through M. SPARE Pvt. Ltd., Bhubaneswar.

- DGPS Survey Co-ordinates are verified by OREC. Also 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%.

- All the forest areas proposed for diversion are under Revenue forest category and comes in five cadastral sheets of 4 Revenue villages. It is observed from the submitted maps and land schedule that Plot No.6 of village Palaska(Kha) is not coming within the RL Area though mentioned in the land schedule. So during calculation of forest areas proposed for diversion the allotted area of this plot is not taken into consideration. Total forest areas proposed for diversion works out to 77.797 Ha. includes 2.096 Ha. under safety zone from the submitted map files against the mentioned 80.817 Ha. in the submitted land schedule.

(Signature)
15/12/2016
Ashok Kumar
Range Officer

N.B. - Additional maps showing cadastral sheet wise forest areas proposed for diversion are attached herewith.



Map Showing DGPS Surveyed Co-ordinates and Boundary of Forest Area Proposed to be Diverted of Tiringpahar Lease for Iron & Manganese Ore in Village Guruda No.54, Khandabandha No. 40 Jadibahal No. 51 & Palasa(Kha) No. 53 under Badbil Tahasil of Champua Sub-division in Keonjhar District of M/s Tata Steel Ltd. Keonjhar Forest Division, ODISHA

Scale - 1:3,960

LEGEND

- DGPS Observation Forest Pillar
- ML Pillar
- DGPS Observation Point
- Trisimal
- Desimal
- Village Boundary
- Forest Plot Boundary
- ML Boundary
- Safety Zone
- KF
- DLC
- Sabik Forest
- Asking Area

SCP/DGPS Observation Pillar Co-ordinates

Sl No	Village Name	SCP/DGPS Observation Id	UTM Co-ordinates	Geographic Co-ordinates		
			Easting	Northing	Longitude	Latitude
1	Guruda S3	7	333487.069	2426301.345	E85°23'15.85568"	N21°55'56.29028"
2		11	333692.495	2426205.025	E85°23'23.04860"	N21°55'56.25822"
3		11	333430.399	2425818.470	E85°23'46.11577"	N21°55'53.88641"
4		16	333520.014	2425756.142	E85°23'17.20344"	N21°55'51.576016"
5		19	333389.917	2424730.182	E85°23'13.04566"	N21°55'58.17576"
6		C	334481.895	2425118.385	E85°23'51.30108"	N21°55'52.17236"
7	Guruda S4	20	333367.286	2424657.635	E85°23'12.23138"	N21°55'53.054316"
8		21	333426.641	2424565.495	E85°23'14.459004"	N21°55'56.33164"
9		72	334431.638	2424539.909	E85°23'49.375008"	N21°55'55.595708"
10		A	334343.284	2424148.971	E85°23'46.475844"	N21°55'54.804328"
11		B	334260.191	2423698.125	E85°23'43.794462"	N21°55'53.52702"
12	Khandabandha S6	D	333811.303	2423128.123	E85°23'21.345486"	N21°55'54.165404"
13		15	333517.654	2425828.309	E85°24'14.935428"	N21°55'56.93632"
14		24	334184.358	2426436.159	E85°23'40.1046"	N21°55'53.911172"
15		73	334194.790	2426555.232	E85°23'40.278696"	N21°55'52.791382"
16		74	334892.452	2426947.627	E85°23'57.684072"	N21°55'53.77086"
17		75	334824.698	2426559.469	E85°24'2.373339"	N21°55'53.177788"
18	Palasa(kha) S1	2	335077.317	2425438.829	E85°24'11.58339"	N