

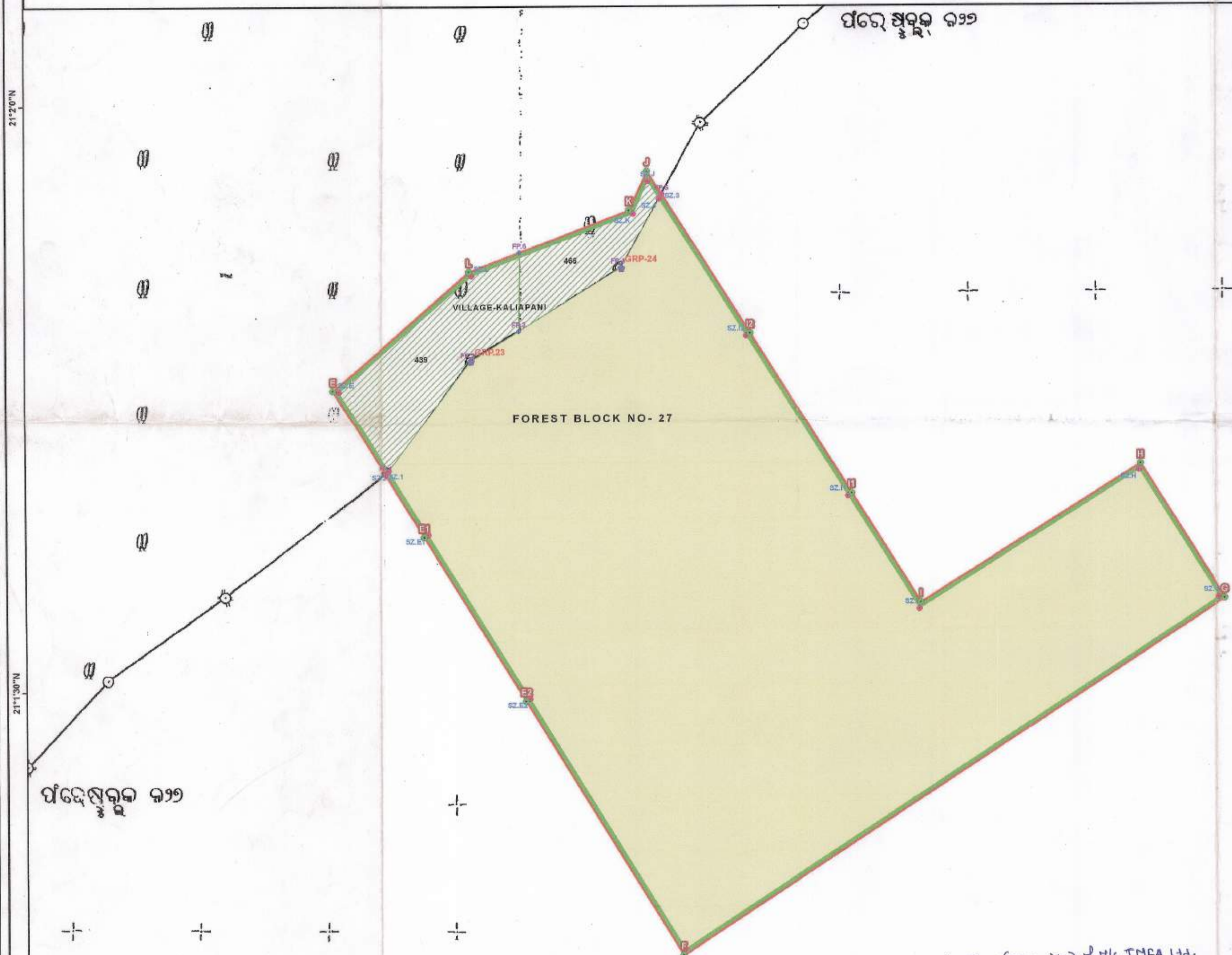
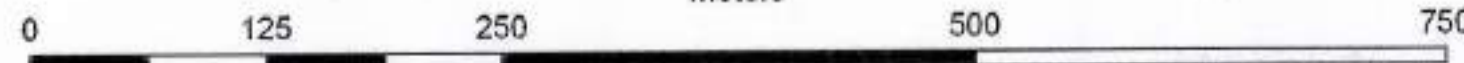
DGPS SURVEYED MAP SHOWING FOREST AREAS PROPOSED FOR DIVERSION FOR MAHAGIRI MINES CHROMITE ( 73.777 Ha.) OF M/S IMFA Ltd. IN VILLAGE KALIAPANI & FOREST BLOCK NO-27 IN JAJPUR DISTRICT, ODISHA

85°46'30"E

85°47'0"E

85°47'30"E

Scale : -1:4,000  
Meters



LEASE PILLAR COORDINATES OF IMFA MAHAGIRI CHROMITES MINES					
SL NO	PILLAR NO	GEOGRAPHIC COORDINATES		UTM COORDINATES	
		LONGITUDE	LATITUDE	EASTING	NORTHING
1	E	85°46'24.94848"	21°01'45.51492"	372558.997	2325880.922
2	E1	85°46'29.95788"	21°01'37.96788"	372701.829	2325647.754
3	E2	85°46'35.52096"	21°01'29.61624"	372860.464	2325389.727
4	F	85°46'44.13144"	21°01'16.66740"	373105.994	2324989.674
5	G	85°47'13.58556"	21°01'35.03568"	373960.616	2325547.984
6	H	85°47'08.93904"	21°01'41.89476"	373828.088	2325759.895
7	I	85°46'57.02880"	21°01'34.78188"	373482.582	2325543.818
8	I1	85°46'53.25420"	21°01'40.32696"	373374.923	2325715.141
9	I2	85°46'47.66772"	21°01'48.59976"	373215.588	2325970.739
10	J	85°46'42.03048"	21°01'56.83512"	373054.786	2326225.211
11	K	85°46'41.05848"	21°01'54.82488"	373026.253	2326163.816
12	L	85°46'32.33820"	21°01'51.63456"	372773.769	2326067.443

SURVEYED GEO REFERENCE COORDINATES OF IMFA MAHAGIRI CHROMITES MINES					
SL NO	POINT NAME	GEOGRAPHIC COORDINATES		UTM COORDINATES	
		LONGITUDE	LATITUDE	EASTING	NORTHING
1	GRP. 2	85°46'20.05030"	21°02'33.42792"	372428.926	2327355.226
2	GRP. 4	85°46'32.34378"	21°02'56.30308"	372789.186	2328055.861
3	GRP. 5	85°46'15.78018"	21°02'56.17241"	372311.053	2328055.520
4	GRP. 6	85°45'55.87584"	21°02'42.68855"	371733.312	2327645.356
5	GRP. 7	85°45'37.21734"	21°02'36.85043"	371193.331	2327470.022
6	GRP. 8	85°45'52.68750"	21°02'21.74508"	371636.293	2327002.100
7	GRP. 9	85°45'09.85348"	21°02'19.09639"	370399.184	2326930.277
8	GRP. 10	85°45'04.80294"	21°02'13.83468"	370252.125	2326769.630
9	GRP. 12	85°46'35.42281"	21°02'13.33428"	372867.929	2326733.982
10	GRP. 13	85°46'00.31903"	21°01'56.36730"	371850.559	2326220.083
11	GRP. 14	85°45'07.18002"	21°01'32.62590"	370310.838	2325502.006
12	GRP. 15	85°45'10.19490"	21°01'28.83138"	370396.964	2325384.652
13	GRP. 17	85°45'45.04711"	21°01'18.52157"	371400.671	2325059.819
14	GRP. 18	85°45'46.85938"	21°01'18.76339"	371453.049	2325066.849
15	GRP. 20	85°46'00.20671"	21°01'16.38762"	371837.821	2324990.819
16	GRP. 23	85°46'32.47582"	21°01'47.08163"	372776.667	2325927.423
17	GRP. 24	85°46'40.65175"	21°01'51.86812"	373013.819	2326072.789
18	GRP. 27	85°46'56.82541"	21°02'09.43589"	373484.841	2326609.390
19	GRP. 29	85°47'12.65075"	21°02'15.67488"	373943.130	2326797.746
20	GRP. 30	85°47'13.42254"	21°02'17.60360"	373965.860	2326856.880
21	GRP. 33	85°47'41.29421"	21°02'43.90182"	374776.527	2327659.393
22	GRP. 37	85°47'29.35126"	21°02'45.01231"	374432.051	2327696.146
23	GRP. 41	85°47'04.90849"	21°02'57.76110"	373729.494	2328093.503
24	GRP. 44	85°46'53.26825"	21°03'08.78297"	373396.094	2328434.965
25	GRP. 45	85°46'53.48969"	21°03'09.42298"	373402.636	2328454.595
26	GRP. 46	85°46'41.66917"	21°03'12.61480"	373062.202	2328555.347
27	GRP. 47	85°46'34.99656"	21°03'04.96657"	372867.801	2328321.657
28	GRP. 49	85°46'41.29955"	21°03'13.02108"	373051.629	2328567.921

SURVEYED SAFETY ZONE PILLAR COORDINATES OF IMFA MAHAGIRI CHROMITES MINES					
SL NO	PILLAR NO	GEOGRAPHIC COORDINATES		UTM COORDINATES	
		LONGITUDE	LATITUDE	EASTING	NORTHING
1	SZ.E	85°46'25.28496"	21°01'45.46894"	372568.698	2325879.430
2	SZ.E1	85°46'30.17814"	21°01'38.09648"	372708.217	2325651.658
3	SZ.E2	85°46'35.74157"	21°01'29.74595"	372866.859	2325393.667
4	SZ.F	85°46'44.21046"	21°01'17.00971"	373108.355	2325000.185
5	SZ.G	85°47'13.22958"	21°01'35.10684"	373950.360	2325550.245
6	SZ.H	85°47'08.85928"	21°01'41.55786"	373825.703	2325749.558
7	SZ.I	85°46'56.94901"	21°01'34.44593"	373480.203	2325533.501
8	SZ.I1	85°46'53.03213"	21°01'40.19751"	373368.477	2325711.212
9	SZ.I2	85°46'47.44929"	21°01'48.46676"	373209.251	2325966.703
10	SZ.J	85°46'42.06972"	21°01'56.32681"	373065.802	2326209.584
11	SZ.K	85°46'41.28564"	21°01'54.64662"	373032.772	2326158.081
12	SZ.L	85°46'32.47475"	21°01'51.42395"	372777.660	2326060.940
13	SZ.1	85°46'27.83605"	21°01'41.16589"	372641.328	2325746.555
14	SZ.2	85°46'28.01633"	21°01'41.35871"	372646.578	2325752.444
15	SZ.3	85°46'42.83605"	21°01'55.65792"	373077.767	2326188.834
16	SZ.4	85°46'42.68275"	21°01'55.43125"	373073.288	2326181.898

SURVEYED FOREST POINT COORDINATES OF IMFA MAHAGIRI CHROMITES MINES					
SL NO	POINT ID	GEOGRAPHIC COORDINATES		UTM COORDINATES	
		LONGITUDE	LATITUDE	EASTING	NORTHING
1	FP.1	85°46'27.83605"	21°01'41.16589"	372641.328	2325746.555
2	FP.2	85°46'32.42442"	21°01'47.06093"	372775.178	2325926.798
3	FP.3	85°46'35.08577"	21°01'48.62748"	372852.376	2325974.377
4	FP.4	85°46'40.64573"	21°01'51.90155"	373013.653	2326073.818
5	FP.5	85°46'42.83605"	21°01'55.65792"	373077.767	2326188.834
6	FP.6	85°46'35.08316"	21°01'52.63878"	372853.246	2326097.716

FOREST AREA & SAFETY ZONE AREA PROPOSED FOR DIVERSION OF M/s IMFA MAHAGIRI CHROMITES MINES						
SL NO	SABIK PLOT NO	MAP FOREST AREA IN Hect	MAP SAFETY ZONE AREA IN Hect	MAP PLOTS AREA Hect	SCHDULE AREA IN Hect	SABIK KISAM
1	439	3.813	0.387	4.20	5.16	Sal Jungle
2	466	1.842	0.216	2.06	2.23	Sal Jungle
	Forest Block No-27	66.023	2.407	68.51	66.38	Forest
	<b>TOTAL AREA</b>	<b>71.678</b>	<b>3.010</b>	<b>74.77</b>	<b>73.77</b>	

- DGPS Survey of forest areas proposed for diversion in Mahagiri Mines (chromite) of M/s. IMFA Ltd. has been carried out by the user agency through M/s. Geo Consultants Pvt. Ltd., Bhubaneswar.

- The submitted ML boundary and pillars with their co-ordinates are matching with that of surveyed by ORAC and the total ML area works out to 74.77 Ha. against the mentioned 73.77 Ha.

- On the submitted map, the mentioned already diverted 63.91 Ha. forest area and 2.47 Ha. safety zone area are not shown separately, so all the forest areas coming in the ML area are taken into consideration for verification and authentication.

- DGPS survey co-ordinates are verified by ORAC. Also the map showing forest areas including safety zone areas are verified with survey points/geo-referenced cadastral sheet and compared with Ortho-rectified Cosmosat satellite image and found that the map is correct at a confidence level of 95%.

- Part of the forest areas proposed for diversion including safety zone areas comes under Revenue forest category, in one cadastral sheet of the village Kaliapani and rest are under forest block No-27. Total forest areas proposed for diversion works out to 74.77 Ha. include 71.678 Ha. forest areas (6.655 Ha. Revenue forest and 66.023 Ha. in Forest Block No.27) and 3.092 Ha. safety zone area (0.605 Ha. Revenue forest and 2.487 Ha. in Forest Block) from the submitted map files against the mentioned 73.77 Ha. in the submitted land schedule (7.39 Ha. Revenue forest and 66.38 Ha. Forest Block Area).

**REVENUE INSPECTOR KANKAPAL**  
31/3/16

**TAHASILDAR SUKINDA**  
31/3/16

**Asst. Conservator of Forests Cuttack Forest Division.**  
31/3/16

**Deputy Director Mines Jajpur Road**  
31/3/16

**Divisional Forest Officer Cuttack Forest Division**  
31/3/16

**TAHSILDAR DANAGADI**  
31/3/16

**Head Corporate Affairs & Legal**  
Sudip Das

**ORISSA SPACE APPLICATION CENTRE**  
Map No. D.C. 25  
Date: 29/01/2016  
Auth: S. K. S. S. S.

**Legend**

- ORSAC SURVEYED M.L. Pillar ( MMC )
- ORSAC SURVEYED M.L. Boundary ( MMC )
- Surveyed Geo Reference Points
- Surveyed Forest Pillar
- Forest Plots Boundary
- Forest Block No-27
- Surveyed Safety Zone Pillar
- Surveyed Safety Zone Area

DGPS SURVEY CONDUCTED BY  
**GEO CONSULTANTS PVT.LTD**  
Laxmi Sagar Bhubaneswar