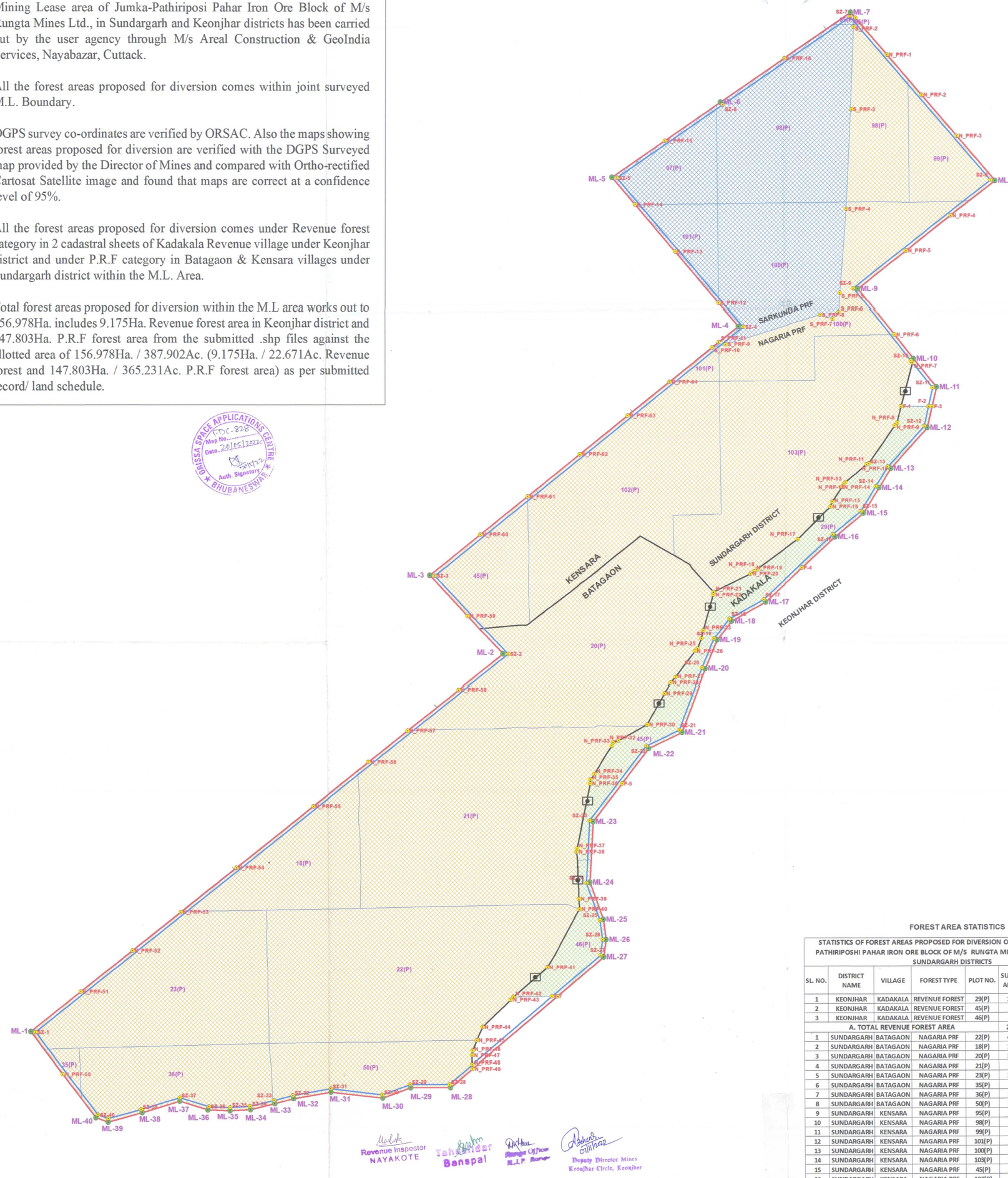
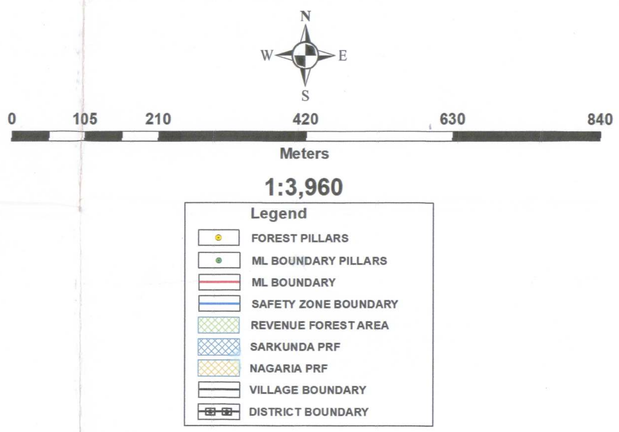
DGPS SURVEYED MAP SHOWING FOREST AREA PROPOSED FOR DIVERSION WITHIN THE JUMKA PATHIRIPOSHI PAHAR IRON ORE BLOCK OF RUNGTA MINES LTD. IN SUNDARGARH & KEONJHAR DISTRICT, ODISHA.

- DGPS Survey of forest areas proposed for diversion coming within the Mining Lease area of Jumka-Pathiriposi Pahar Iron Ore Block of M/s Rungta Mines Ltd., in Sundargarh and Keonjhar districts has been carried out by the user agency through M/s Areal Construction & GeoIndia Services, Nayabazar, Cuttack.
- All the forest areas proposed for diversion comes within joint surveyed M.L. Boundary.
- DGPS survey co-ordinates are verified by ORSAC. Also the maps showing forest areas proposed for diversion are verified with the DGPS Surveyed map provided by the Director of Mines 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 comes under Revenue forest category in 2 cadastral sheets of Kadakala Revenue village under Keonjhar district and under P.R.F category in Batagaon & Kensara villages under Sundargarh district within the M.L. Area.
- Total forest areas proposed for diversion within the M.L area works out to 156.978Ha. includes 9.175Ha. Revenue forest area in Keonjhar district and 147.803Ha. P.R.F forest area from the submitted .shp files against the allotted area of 156.978Ha. / 387.902Ac. (9.175Ha. / 22.671Ac. Revenue forest and 147.803Ha. / 365.231Ac. P.R.F forest area) as per submitted record/ land schedule.

ORISSA SPACE APPLICATIONS CENTRE, Map No. OSAC-822, Date: 26/5/2022, Auth. Signatory, BHUBANESWAR



Revenue Inspector NAYAKOTE — Tahasildar Banspal — Range Officer R.F.P. Range — Deputy Director Mines Keonjhar Circle, Keonjhar



ML BOUNDARY PILLAR CO-ORDINATES

SL NO.	POINT_ID	EASTING	NORTHING	LONGITUDE	LATITUDE
1	ML-1	314311.8371	2411134.329	85°12'13.87352"	21°47'39.29591"
2	ML-2	315327.419	2411981.889	85°12'48.88379"	21°48'07.23287"
3	ML-3	315173.4312	2412162.864	85°12'43.45020"	21°48'13.05824"
4	ML-4	315836.1104	2412723.349	85°13'06.29391"	21°48'31.52860"
5	ML-5	315570.586	2413066.03	85°12'56.91209"	21°48'42.56911"
6	ML-6	315802.9163	2413235.001	85°13'04.93242"	21°48'48.14961"
7	ML-7	316083.2289	2413436.76	85°13'14.61025"	21°48'54.81396"
8	ML-8	316386.442	2413050.203	85°13'25.32167"	21°48'42.36089"
9	ML-9	316093.0928	2412806.538	85°13'15.20689"	21°48'34.32949"
10	ML-10	316209.6889	2412645.194	85°13'19.33079"	21°48'29.12803"
11	ML-11	316257.3756	2412580.244	85°13'21.01698"	21°48'27.03441"
12	ML-12	316236.8642	2412487.204	85°13'20.34026"	21°48'24.00203"
13	ML-13	316157.8068	2412395.629	85°13'17.62482"	21°48'20.99534"
14	ML-14	316132.4473	2412351.654	85°13'16.75965"	21°48'19.55624"
15	ML-15	316098.8106	2412294.074	85°13'15.61180"	21°48'17.67171"
16	ML-16	316037.6636	2412240.763	85°13'13.50455"	21°48'15.91567"
17	ML-17	315887.7032	2412094.126	85°13'08.34305"	21°48'11.09231"
18	ML-18	315814.2558	2412050.728	85°13'05.80366"	21°48'09.65388"
19	ML-19	315782.7561	2412007.879	85°13'04.72433"	21°48'08.24905"
20	ML-20	315756.6532	2411942.307	85°13'03.84203"	21°48'06.10753"
21	ML-21	315705.0419	2411798.772	85°13'02.10312"	21°48'01.42190"
22	ML-22	315633.7622	2411763.233	85°12'59.63609"	21°48'00.23978"
23	ML-23	315512.9924	2411597.574	85°12'55.49869"	21°47'54.80890"
24	ML-24	315504.5029	2411459.338	85°12'55.25884"	21°47'50.31172"
25	ML-25	315532.3057	2411373.907	85°12'56.26107"	21°47'47.54488"
26	ML-26	315537.6836	2411328.261	85°12'56.46665"	21°47'46.06295"
27	ML-27	315532.0183	2411288.744	85°12'56.28536"	21°47'44.77618"
28	ML-28	315202.7431	2410995.875	85°12'44.94140"	21°47'35.13124"
29	ML-29	315118.4567	2410996.632	85°12'42.00714"	21°47'35.12409"
30	ML-30	315058.6433	2410974.137	85°12'39.93416"	21°47'34.37028"
31	ML-31	314948.3246	2410989.119	85°12'36.08800"	21°47'34.81571"
32	ML-32	314868.4293	2410975.027	85°12'33.31259"	21°47'34.32745"
33	ML-33	314828.6833	2410964.158	85°12'31.93346"	21°47'33.95911"
34	ML-34	314776.6132	2410951.588	85°12'30.12602"	21°47'33.53081"
35	ML-35	314733.0312	2410949.459	85°12'28.60983"	21°47'33.44514"
36	ML-36	314686.3025	2410951.846	85°12'26.98228"	21°47'33.50511"
37	ML-37	314626.2521	2410972.57	85°12'24.88359"	21°47'34.15613"
38	ML-38	314545.9847	2410947.68	85°12'22.09962"	21°47'33.31665"
39	ML-39	314473.6428	2410927.178	85°12'19.58977"	21°47'32.62280"
40	ML-40	314447.3196	2410937.432	85°12'18.66933"	21°47'32.94620"

LEASE AREA AS PER DGPS SURVEY = 158.509 HA.

DGPS SURVEYED POINT CO-ORDINATES OF NAGARIA PRF

SL NO.	POINT_ID	EASTING	NORTHING	LONGITUDE	LATITUDE
1	N_PRF-1	316159.579	2413339.424	85°13'17.30748"	21°48'51.67836"
2	N_PRF-2	316232.044	2413247.039	85°13'19.86744"	21°48'48.70188"
3	N_PRF-3	316306.092	2413152.637	85°13'22.48320"	21°48'45.66096"
4	N_PRF-4	316290.936	2412970.872	85°13'22.02852"	21°48'39.74616"
5	N_PRF-5	316196.226	2412892.202	85°13'18.76296"	21°48'37.15308"
6	N_PRF-6	316169.715	2412700.51	85°13'17.91696"	21°48'30.91140"
7	N_PRF-7	316207.123	2412636.017	85°13'19.24500"	21°48'28.82880"
8	N_PRF-8	316172.61	2412499.486	85°13'18.09840"	21°48'24.37740"
9	N_PRF-9	316167.338	2412493.025	85°13'17.91768"	21°48'24.16536"
10	N_PRF-10	316111.179	2412407.646	85°13'15.99672"	21°48'21.36852"
11	N_PRF-11	316106.256	2412405.359	85°13'15.82644"	21°48'21.29220"
12	N_PRF-12	316061.204	2412365.422	85°13'14.27412"	21°48'19.97712"
13	N_PRF-13	316057.545	2412361.21	85°13'14.14812"	21°48'19.83888"
14	N_PRF-14	316053.863	2412354.504	85°13'14.02284"	21°48'19.61928"
15	N_PRF-15	316032.546	2412321.056	85°13'13.29420"	21°48'18.52416"
16	N_PRF-16	316028.278	2412309.651	85°13'13.15020"	21°48'18.15156"
17	N_PRF-17	315958.233	2412236.411	85°13'10.74108"	21°48'15.74424"
18	N_PRF-18	315868.794	2412168.478	85°13'07.65480"	21°48'13.50252"
19	N_PRF-19	315863.579	2412164.102	85°13'07.47516"	21°48'13.35816"
20	N_PRF-20	315855.476	2412158.716	85°13'07.19508"	21°48'13.17996"
21	N_PRF-21	315776.645	2412118.345	85°13'04.46700"	21°48'11.83788"
22	N_PRF-22	315775.747	2412111.924	85°13'04.43856"	21°48'11.62872"
23	N_PRF-23	315753.107	2412030.5	85°13'03.68292"	21°48'08.97336"
24	N_PRF-24	315749.153	2412011.406	85°13'03.55296"	21°48'08.35092"
25	N_PRF-25	315740.968	2411988.127	85°13'03.27756"	21°48'07.59132"
26	N_PRF-26	315735.287	2411982.724	85°13'03.08208"	21°48'07.41348"
27	N_PRF-27	315693.337	2411924.34	85°13'01.64496"	21°48'05.49972"
28	N_PRF-28	315682.886	2411911.639	85°13'01.28640"	21°48'05.08284"
29	N_PRF-29	315668.851	2411888.324	85°13'00.80724"	21°48'04.31964"
30	N_PRF-30	315631.164	2411817.407	85°12'59.52384"	21°48'01.99980"
31	N_PRF-31	315569.321	2411781.592	85°12'57.38544"	21°48'00.81252"
32	N_PRF-32	315557.568	2411777.055	85°12'56.97828"	21°48'00.66060"
33	N_PRF-33	315555.179	2411770.218	85°12'56.89764"	21°48'00.43740"
34	N_PRF-34	315517.52	2411705.982	85°12'55.61280"	21°47'58.33500"
35	N_PRF-35	315508.683	2411693.503	85°12'55.31004"	21°47'57.92568"
36	N_PRF-36	315507.675	2411684.692	85°12'55.27836"	21°47'57.63912"
37	N_PRF-37	315478.092	2411536.737	85°12'54.30816"	21°47'52.81800"
38	N_PRF-38	315477.072	2411529.153	85°12'54.27576"	21°47'52.57104"
39	N_PRF-39	315480.42	2411421.842	85°12'54.43560"	21°47'49.08372"
40	N_PRF-40	315481.518	2411398.47	85°12'54.48312"	21°47'48.32412"
41	N_PRF-41	315412.104	2411266.502	85°12'52.12008"	21°47'44.00808"
42	N_PRF-42	315338.852	2411199.564	85°12'49.59720"	21°47'41.80416"
43	N_PRF-43	315333.495	2411193.073	85°12'49.41324"	21°47'41.59140"
44	N_PRF-44	315272.371	2411132.015	85°12'47.31012"	21°47'39.58332"
45	N_PRF-45	315259.775	2411102.039	85°12'46.88388"	21°47'38.60412"
46	N_PRF-46	315251.312	2411078.275	85°12'46.59876"	21°47'37.82832"
47	N_PRF-47	315249.205	2411068.029	85°12'46.52964"	21°47'37.49460"
48	N_PRF-48	315249.4	2411047.41	85°12'46.54476"	21°47'36.82428"
49	N_PRF-49	315249.947	2411037.86	85°12'46.56744"	21°47'36.51396"
50	N_PRF-50	314378.531	2411037.402	85°12'16.23420"	21°47'36.17016"
51	N_PRF-51	314419.146	2411223.883	85°12'17.57268"	21°47'42.24768"
52	N_PRF-52	314529.862	2411316.281	85°12'21.38904"	21°47'45.29364"
53	N_PRF-53	314633.707	2411402.947	85°12'24.96888"	21°47'48.15024"
54	N_PRF-54	314752.89	2411502.41	85°12'29.07756"	21°47'51.42876"
55	N_PRF-55	314917.752	2411639.997	85°12'34.76088"	21°47'55.96368"
56	N_PRF-56	315037.262	2411739.737	85°12'38.88072"	21°47'59.25120"
57	N_PRF-57	315121.524	2411810.058	85°12'41.78556"	21°48'01.56924"
58	N_PRF-58	315231.239	2411901.62	85°12'45.56808"	21°48'04.58712"
59	N_PRF-59	315252.901	2412069.467	85°12'46.25424"	21°48'10.05192"
60	N_PRF-60	315282.16	2412254.825	85°12'47.19816"	21°48'16.08876"
61	N_PRF-61	315383.184	2412340.27	85°12'50.68044"	21°48'18.90468"
62	N_PRF-62	315495.593	2412435.342	85°12'54.55548"	21°48'22.03776"
63	N_PRF-63	315598.347	2412522.251	85°12'58.09752"	21°48'24.90156"
64	N_PRF-64	315688.344	2412598.37	85°13'01.20000"	21°48'27.41004"

TOTAL NAGARIA PRF AREA = 125.943 HA.

DGPS SURVEYED POINT CO-ORDINATES OF REVENUE FOREST PILLARS (KEONJHAR DISTRICT)

SL NO.	POINT_ID	EASTING	NORTHING	LONGITUDE	LATITUDE
1	F-1	316181.696	2412536.807	85°13'18.39977"	21°48'25.59393"
2	F-2	316239.947	2412536.023	85°13'20.42798"	21°48'25.59028"
3	F-3	316247.604	2412535.92	85°13'20.69459"	21°48'25.58980"
4	F-4	315966.369	2412171.048	85°13'11.05064"	21°48'13.62253"
5	F-5	315575.639	2411683.506	85°12'57.64487"	21°47'57.62605"
6	F-6	315432.256	2411200.012	85°12'52.84838"	21°47'41.85403"
7	F-7	315420.912	2411199.958	85°12'52.45351"	21°47'41.84799"

TOTAL REVENUE FOREST AREA = 9.175 HA.

SAFETY ZONE PILLAR CO-ORDINATES

SL NO.	POINT_ID	EASTING	NORTHING	LONGITUDE	LATITUDE
1	SZ-1	314321.89	2411132.95	85°12'14.22396"	21°47'39.25500"
2	SZ-2	315337.987	2411981.065	85°12'49.25196"	21°48'07.21008"
3	SZ-3	315184.018	2412161.995	85°12'43.81920"	21°48'13.03416"
4	SZ-4	315846.424	2412722.288	85°13'06.65328"	21°48'31.49784"
5	SZ-5	315581.25	2413064.512	85°12'57.28392"	21°48'42.52392"
6	SZ-6	315807.313	2413228.924	85°13'05.08800"	21°48'47.95380"
7	SZ-7	316081.769	2413426.469	85°13'14.56356"	21°48'54.47880"
8	SZ-8	316376.04	2413051.312	85°13'24.95892"	21°48'42.39288"
9	SZ-9	316082.875	2412807.802	85°13'14.85084"	21°48'34.36668"
10	SZ-10	316203.643	2412640.755	85°13'19.12224"	21°48'28.98144"
11	SZ-11	316249.32	2412578.543	85°13'20.73720"	21°48'26.97624"
12	SZ-12	316229.948	2412490.67	85°13'20.09820"	21°48'24.11208"
13	SZ-13	316151.311	2412399.377	85°13'17.39712"	21°48'21.11472"
14	SZ-14	316125.961	2412355.419	85°13'16.53240"	21°48'19.67616"
15	SZ-15	316092.955	2412298.918	85°13'15.40596"	21°48'17.82720"
16	SZ-16	316032.735	2412246.416	85°13'13.33056"	21°48'16.09776"
17	SZ-17	315883.108	2412100.122	85°13'08.18076"	21°48'11.28564"
18	SZ-18	315809.262	2412056.301	85°13'05.62764"	21°48'09.83304"
19	SZ-19	315776.197	2412011.516	85°13'04.49472"	21°48'08.36496"
20	SZ-20	315749.596	2411944.844	85°13'03.59544"	21°48'06.18732"
21	SZ-21	315699.002	2411804.141	85°13'01.89084"	21°48'01.59408"
22	SZ-22	315628.783	2411769.138	85°12'59.46048"	21°48'00.42984"
23	SZ-23	315505.618	2411600.208	85°12'55.24092"	21°47'54.89160"
24	SZ-24	315497.137	2411457.926	85°12'55.00296"	21°47'50.26308"
25	SZ-25	315524.944	2411372.292	85°12'56.00556"	21°47'47.48964"
26	SZ-26	315530.121	2411328.356	85°12'56.20320"	21°47'46.06332"
27	SZ-27	315524.984	2411292.525	85°12'56.03904"	21°47'44.89656"
28	SZ-28	315199.919	2411003.401	85°12'44.84016"	21°47'35.37492"
29	SZ-29	315117.053	2411004.119	85°12'41.95512"	21°47'35.36700"
30	SZ-30	315057.776	2410981.824	85°12'39.90096"	21°47'34.62000"
31	SZ-31	314948.091	2410996.704	85°12'36.07668"	21°47'35.06208"
32	SZ-32	314866.451	2410982.261	85°12'33.24096"	21°47'34.56204"
33	SZ-33	314826.814	2410971.422	85°12'31.86540"	21°47'34.19448"
34	SZ-34	314775.541	2410959.044	85°12'30.08556"	21°47'33.77292"
35	SZ-35	314733.04	2410956.968	85°12'28.60704"	21°47'33.68940"
36	SZ-36	314687.745	2410959.282	85°12'27.02952"	21°47'33.74736"
37	SZ-37	314626.426	2410980.462	85°12'24.88644"	21°47'34.41264"
38	SZ-38	314543.851	2410954.871	85°12'22.02228"	21°47'33.54972"
39	SZ-39	314474.02	2410935.08	85°12'19.59984"	21°47'32.87976"
40	SZ-40	314452.191	2410943.584	85°12'18.83628"	21°47'33.14796"

DGPS SURVEYED POINT CO-ORDINATES OF SARKUNDA PRF (SUNDARGARH DISTRICT)

SL NO.	POINT_ID	EASTING	NORTHING	LONGITUDE	LATITUDE
1	S_PRF-1	316092.849	2413424.495	85°13'14.95020"	21°48'54.41868"
2	S_PRF-2	316089.011	2413403.841	85°13'14.82492"	21°48'53.74584"
3	S_PRF-3	316082.411	2413215.782	85°13'14.67048"	21°48'47.62980"
4	S_PRF-4	316069.451	2412988.272	85°13'14.31084"	21°48'40.22856"
5	S_PRF-5	316053.958	2412797.154	85°13'13.84824"	21°48'34.00992"
6	S_PRF-6	316051.971	2412752.91	85°13'13.79676"	21°48'32.57064"
7	S_PRF-7	316038.503	2412737.256	85°13'13.33416"	21°48'32.05656"
8	S_PRF-8	316012.042	2412747.047	85°13'12.40932"	21°48'32.36508"
9	S_PRF-9	315809.043	2412682.991	85°13'05.36772"	21°48'30.20652"
10	S_PRF-10	315780.036	2412675.919	85°13'04.36080"	21°48'29.96568"
11	S_PRF-11	315794.268	2412687.959	85°13'04.85148"	21°48'30.36240"
12	S_PRF-12	315794.244	2412777.38	85°13'04.81476"	21°48'33.26940"
13	S_PRF-13	315703.221	2412894.852	85°13'01.59852"	21°48'37.05408"
14	S_PRF-14	315619.131	2413003.378	85°12'58.62744"	21°48'40.55076"
15	S_PRF-15	315684.1	2413148.586	85°13'00.83064"	21°48'45.29556"
16	S_PRF-16	315939.781	2413333.51	85°13'09.65748"	21°48'51.40368"

TOTAL SARKUNDA PRF AREA = 21.860 HA.

TOTAL PRF AREA = 147.803 HA.

FOREST AREA STATISTICS

STATISTICS OF FOREST AREAS PROPOSED FOR DIVERSION COMING WITH IN JUMKA-PATHIRIPOSHI PAHAR IRON ORE BLOCK OF M/S RUNGTA MINES LTD. IN KEONJHAR & SUNDARGARH DISTRICTS

SL. NO.	DISTRICT NAME	VILLAGE	FOREST TYPE	PLOT NO.	SURVEYED AREA AC.	SURVEYED AREA HA.	MAP AREA HA.
1	KEONJHAR	KADAKALA	REVENUE FOREST	29(P)	10.213	4.133	4.133
2	KEONJHAR	KADAKALA	REVENUE FOREST	45(P)	7.329	2.966	2.966
3	KEONJHAR	KADAKALA	REVENUE FOREST	46(P)	5.129	2.076	2.076
A. TOTAL REVENUE FOREST AREA					22.671	9.175	9.175
1	SUNDARGARH	BATAGAON	NAGARIA PRF	22(P)	42.899	17.36	17.36
2	SUNDARGARH	BATAGAON	NAGARIA PRF	18(P)	14.927	6.041	6.041
3	SUNDARGARH	BATAGAON	NAGARIA PRF	20(P)	37.363	15.12	15.12
4	SUNDARGARH	BATAGAON	NAGARIA PRF	21(P)	47.76	19.328	19.328
5	SUNDARGARH	BATAGAON	NAGARIA PRF	23(P)	27.364	11.074	11.074
6	SUNDARGARH	BATAGAON	NAGARIA PRF	35(P)	1.041	0.421	0.421
7	SUNDARGARH	BATAGAON	NAGARIA PRF	36(P)	14.622	5.917	5.917
8	SUNDARGARH	BATAGAON	NAGARIA PRF	50(P)	12.065	4.882	4.882
9	SUNDARGARH	KENSARA	NAGARIA PRF	95(P)	0.027	0.011	0.011
10	SUNDARGARH	KENSARA	NAGARIA PRF	98(P)	10.85	4.391	4.391
11	SUNDARGARH	KENSARA	NAGARIA PRF	99(P)	7.063	2.858	2.858
12	SUNDARGARH	KENSARA	NAGARIA PRF	101(P)	1.159	0.469	0.469
13	SUNDARGARH	KENSARA	NAGARIA PRF	100(P)	15.578	6.304	6.304
14	SUNDARGARH	KENSARA	NAGARIA PRF	103(P)	38.241	15.476	15.476
15	SUNDARGARH	KENSARA	NAGARIA PRF	45(P)	9.285	3.758	3.758
16	SUNDARGARH	KENSARA	NAGARIA PRF	102(P)	30.97	12.533	12.533
17	SUNDARGARH	KENSARA	SARKUNDA PRF	98(P)	23.047	9.327	9.327
18	SUNDARGARH	KENSARA	SARKUNDA PRF	95(P)	0.173	0.07	0.07
19	SUNDARGARH	KENSARA	SARKUNDA PRF	101(P)	4.902	1.983	1.983
20	SUNDARGARH	KENSARA	SARKUNDA PRF	100(P)	18.317	7.413	7.413
21	SUNDARGARH	KENSARA	SARKUNDA PRF	97(P)	7.578	3.067	3.067
B. TOTAL PRF AREA					365.231	147.803	147.803
TOTAL FOREST AREA PROPOSED FOR DIVERSON (A+B)					387.902	156.978	156.978

Range Officer Baripada Range — Revenue Inspector Sasyakela — Tahasildar Lahunipara 23/9/22

SURVEYED & PREPARED BY

AREAL CONSTRUCTIONS & GEO-INDIA SERVICES BHUBANESWAR

Jr. Mining Officer O/o Deputy Director, Mines Koira Circle K-ira Dist.- Sundargarh 01.11.2022

DEPUTY DIRECTOR OF MINES KOIRA MINING CIRCLE, KOIRA