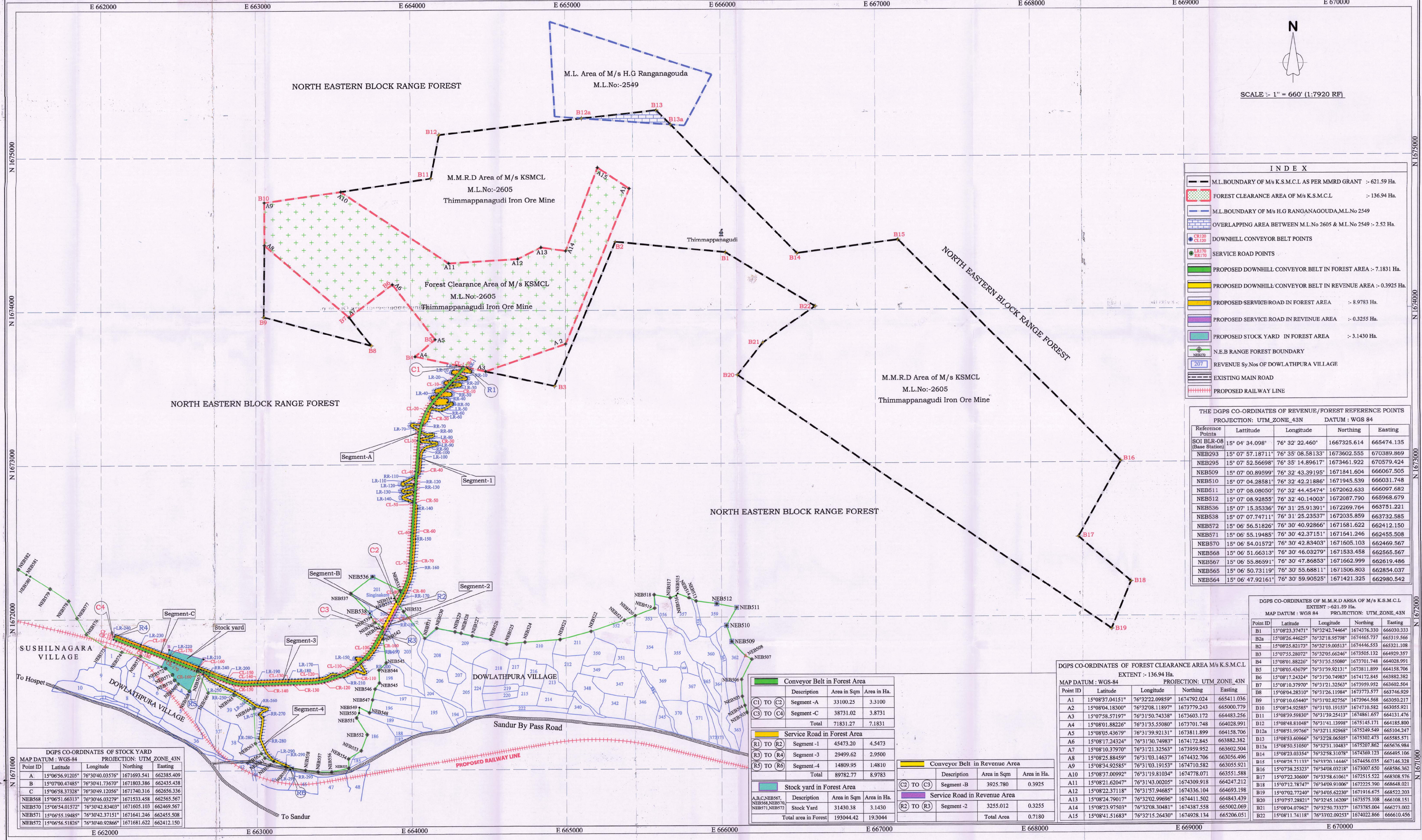


JOINT SURVEY PLAN SHOWING THE PROPOSED AREA REQUIRED FOR DOWN HILL BELT CONVEYOR, SERVICE ROAD, STOCK YARD, TRANSMISSION LINE AND WATER PIPE LINE FROM THIMMAPPANAGUDI IRON ORE MINE M.L.NO.2605 OF M/s.KARNATAKA STATE MINERALS CORPORATION LIMITED OVER AN EXTENT OF 19.3044 HA.(Earlier Applied area 19.652 Ha.) IN N.E.BLOCK FOREST, SANDUR NORTH RANGE FOREST, SANDUR TALUK, BALLARI DIST. KARNATAKA STATE.



INDEX

[Symbol]	M.L. BOUNDARY OF M/s K.S.M.C.L AS PER MMRD GRANT :- 621.59 Ha.
[Symbol]	FOREST CLEARANCE AREA OF M/s K.S.M.C.L :- 136.94 Ha.
[Symbol]	M.L. BOUNDARY OF M/s H.G RANGANAGOUDA, M.L.No 2549
[Symbol]	OVERLAPPING AREA BETWEEN M.L.No 2605 & M.L.No 2549 :- 2.52 Ha.
[Symbol]	DOWNHILL CONVEYOR BELT POINTS
[Symbol]	SERVICE ROAD POINTS
[Symbol]	PROPOSED DOWNHILL CONVEYOR BELT IN FOREST AREA :- 7.1831 Ha.
[Symbol]	PROPOSED DOWNHILL CONVEYOR BELT IN REVENUE AREA :- 0.3925 Ha.
[Symbol]	PROPOSED SERVICE ROAD IN FOREST AREA :- 8.9783 Ha.
[Symbol]	PROPOSED SERVICE ROAD IN REVENUE AREA :- 0.3255 Ha.
[Symbol]	PROPOSED STOCK YARD IN FOREST AREA :- 3.1430 Ha.
[Symbol]	N.E.B RANGE FOREST BOUNDARY
[Symbol]	REVENUE Sy.NoS OF DOWLATHPURA VILLAGE
[Symbol]	EXISTING MAIN ROAD
[Symbol]	PROPOSED RAILWAY LINE

THE DGPS CO-ORDINATES OF REVENUE/FOREST REFERENCE POINTS

PROJECTION: UTM_ZONE_43N DATUM: WGS 84

Reference Points	Latitude	Longitude	Northing	Easting
SOI BLR-08 (Base Station)	15° 04' 34.098"	76° 32' 22.460"	1667325.614	665474.135
NEB293	15° 07' 57.18711"	76° 35' 08.58133"	1673602.555	670389.869
NEB295	15° 07' 52.56698"	76° 35' 14.89617"	1673461.922	670579.424
NEB509	15° 07' 00.89599"	76° 32' 43.39195"	1671841.604	666067.505
NEB510	15° 07' 04.28581"	76° 32' 42.21886"	1671945.539	666031.748
NEB511	15° 07' 08.08050"	76° 32' 44.45474"	1672062.633	666097.682
NEB512	15° 07' 08.92855"	76° 32' 40.14003"	1672087.790	665968.679
NEB536	15° 07' 15.35336"	76° 31' 25.91391"	1672269.764	663751.221
NEB538	15° 07' 07.74711"	76° 31' 25.23537"	1672035.859	663732.585
NEB572	15° 06' 56.51826"	76° 30' 40.92866"	1671681.622	662412.150
NEB571	15° 06' 55.19485"	76° 30' 42.37151"	1671641.246	662455.508
NEB570	15° 06' 54.01572"	76° 30' 42.83403"	1671605.103	662469.567
NEB568	15° 06' 51.66313"	76° 30' 46.03279"	1671533.458	662565.567
NEB567	15° 06' 55.86591"	76° 30' 47.86853"	1671662.999	662619.486
NEB565	15° 06' 50.73119"	76° 30' 55.68811"	1671506.803	662854.037
NEB564	15° 06' 47.92161"	76° 30' 59.90525"	1671421.325	662980.542

DGPS CO-ORDINATES OF M.M.R.D AREA OF M/s K.S.M.C.L

MAP DATUM: WGS 84 PROJECTION: UTM_ZONE_43N

Point ID	Latitude	Longitude	Northing	Easting
B1	15°08'23.37471"	76°32'42.74464"	1674376.330	666030.333
B2a	15°08'26.44625"	76°32'18.95798"	1674465.737	665319.566
B2	15°08'25.82173"	76°32'19.00513"	1674446.553	665321.108
B3	15°07'55.28072"	76°32'05.60246"	1673505.132	664929.357
B4	15°08'01.88226"	76°31'55.55080"	1673701.748	664028.991
B5	15°08'05.43679"	76°31'59.92131"	1673811.899	664158.706
B6	15°08'17.24324"	76°31'50.74983"	167412.845	663882.362
B7	15°08'10.37970"	76°31'21.32563"	1673959.952	663602.504
B8	15°08'04.28310"	76°31'26.11984"	1673773.577	663746.929
B9	15°08'10.65440"	76°31'02.82756"	1673964.568	663050.217
D10	15°08'04.92585"	76°31'03.19153"	167410.582	663055.921
D11	15°08'39.59830"	76°31'39.25413"	1674861.657	664131.476
D12	15°08'48.81048"	76°31'41.13998"	1675145.171	664185.800
A4	15°08'01.88226"	76°31'55.55080"	1673811.899	664158.706
A5	15°08'05.43679"	76°31'59.92131"	167412.845	663882.362
A6	15°08'17.24324"	76°31'50.74983"	167412.845	663882.362
A7	15°08'10.37970"	76°31'21.32563"	1673959.952	663602.504
A8	15°08'25.88459"	76°31'03.19153"	1674432.706	663055.921
A9	15°08'34.92585"	76°31'03.19153"	1674710.582	663055.921
B12a	15°08'51.99766"	76°32'11.92968"	1675249.540	665104.247
B13a	15°08'53.60666"	76°32'28.06505"	1675302.473	665585.571
B14	15°08'50.51050"	76°32'31.10483"	1675207.862	665676.984
B15	15°08'53.60666"	76°32'58.31078"	1674369.123	666495.106
B16	15°08'55.71133"	76°33'00.14446"	1674456.035	667146.328
B17	15°07'12.78747"	76°34'08.03218"	1673007.650	668586.362
B18	15°07'12.78747"	76°34'08.03218"	1673007.650	668586.362
B19	15°07'12.78747"	76°34'08.03218"	1673007.650	668586.362
B20	15°07'12.78747"	76°34'08.03218"	1673007.650	668586.362
B21	15°07'12.78747"	76°34'08.03218"	1673007.650	668586.362
B22	15°07'12.78747"	76°34'08.03218"	1673007.650	668586.362

Conveyor Belt in Forest Area

Description	Area in Sqm	Area in Ha.
C1 TO C2 Segment -A	33100.25	3.3100
C3 TO C4 Segment -C	38731.02	3.8731
Total	71831.27	7.1831

Service Road in Forest Area

Description	Area in Sqm	Area in Ha.
R1 TO R2 Segment -1	45473.20	4.5473
R3 TO R4 Segment -3	29499.62	2.9500
R5 TO R6 Segment -4	14809.95	1.4810
Total	89782.77	8.9783

Stock yard in Forest Area

Description	Area in Sqm	Area in Ha.
A.B.C.NEB567, NEB568, NEB570, NEB571, NEB572	31430.38	3.1430
Stock Yard	193044.42	19.3044
Total area in Forest	193044.42	19.3044

Conveyor Belt in Revenue Area

Description	Area in Sqm	Area in Ha.
C2 TO C3 Segment -B	3925.780	0.3925

Service Road in Revenue Area

Description	Area in Sqm	Area in Ha.
R2 TO R3 Segment -2	3255.012	0.3255

DGPS CO-ORDINATES OF FOREST CLEARANCE AREA M/s K.S.M.C.L

EXTENT :- 136.94 Ha.

MAP DATUM: WGS-84 PROJECTION: UTM_ZONE_43N

Point ID	Latitude	Longitude	Northing	Easting
A1	15°08'37.04151"	76°32'22.09859"	1674792.024	665411.036
A2	15°08'04.18300"	76°32'08.11897"	1673779.243	665000.779
A3	15°07'58.57197"	76°31'50.74338"	1673603.172	664483.256
A4	15°08'01.88226"	76°31'55.55080"	1673811.899	664158.706
A5	15°08'05.43679"	76°31'59.92131"	167412.845	663882.362
A6	15°08'17.24324"	76°31'50.74983"	167412.845	663882.362
A7	15°08'10.37970"	76°31'21.32563"	1673959.952	663602.504
A8	15°08'25.88459"	76°31'03.19153"	1674432.706	663055.921
A9	15°08'34.92585"	76°31'03.19153"	1674710.582	663055.921
A10	15°08'37.00992"	76°31'19.81034"	1674778.071	663551.588
A11	15°08'21.62047"	76°31'43.00205"	1674309.918	664247.212
A12	15°08'22.37118"	76°31'57.94685"	1674336.104	664693.198
A13	15°08'24.79017"	76°32'02.99696"	1674411.502	664843.439
A14	15°08'27.97503"	76°32'08.30481"	1674387.558	665002.069
A15	15°08'41.51683"	76°32'15.26430"	1674928.134	665206.051

DGPS CO-ORDINATES OF STOCK YARD

MAP DATUM: WGS-84 PROJECTION: UTM_ZONE_43N

Point ID	Latitude	Longitude	Northing	Easting
A	15°06'56.91205"	76°30'40.03576"	1671693.541	662385.409
B	15°07'00.47485"	76°30'41.73670"	1671803.386	662435.438
C	15°06'58.37328"	76°30'49.12056"	1671740.316	662656.336
NEB568	15°06'51.66313"	76°30'46.03279"	1671533.458	662565.567
NEB570	15°06'54.01572"	76°30'42.83403"	1671605.103	662469.567
NEB571	15°06'55.19485"	76°30'42.37151"	1671641.246	662455.508
NEB572	15°06'56.51826"	76°30'40.92866"	1671681.622	662412.150

CERTIFICATE

This is to certify that the points of Proposed Downhill Conveyor Belt, Service Road and Stock yard Area surveyed by our team using Total Station & DGPS instruments at the time of Joint Survey as per the Directions of Officials of Department of Forest, Department of Mines & Geology and Revenue department with the Representatives of Thimmappanagudi iron ore mines of M/s K.S.M.C.L.

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North Range,
Sandur North Range

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