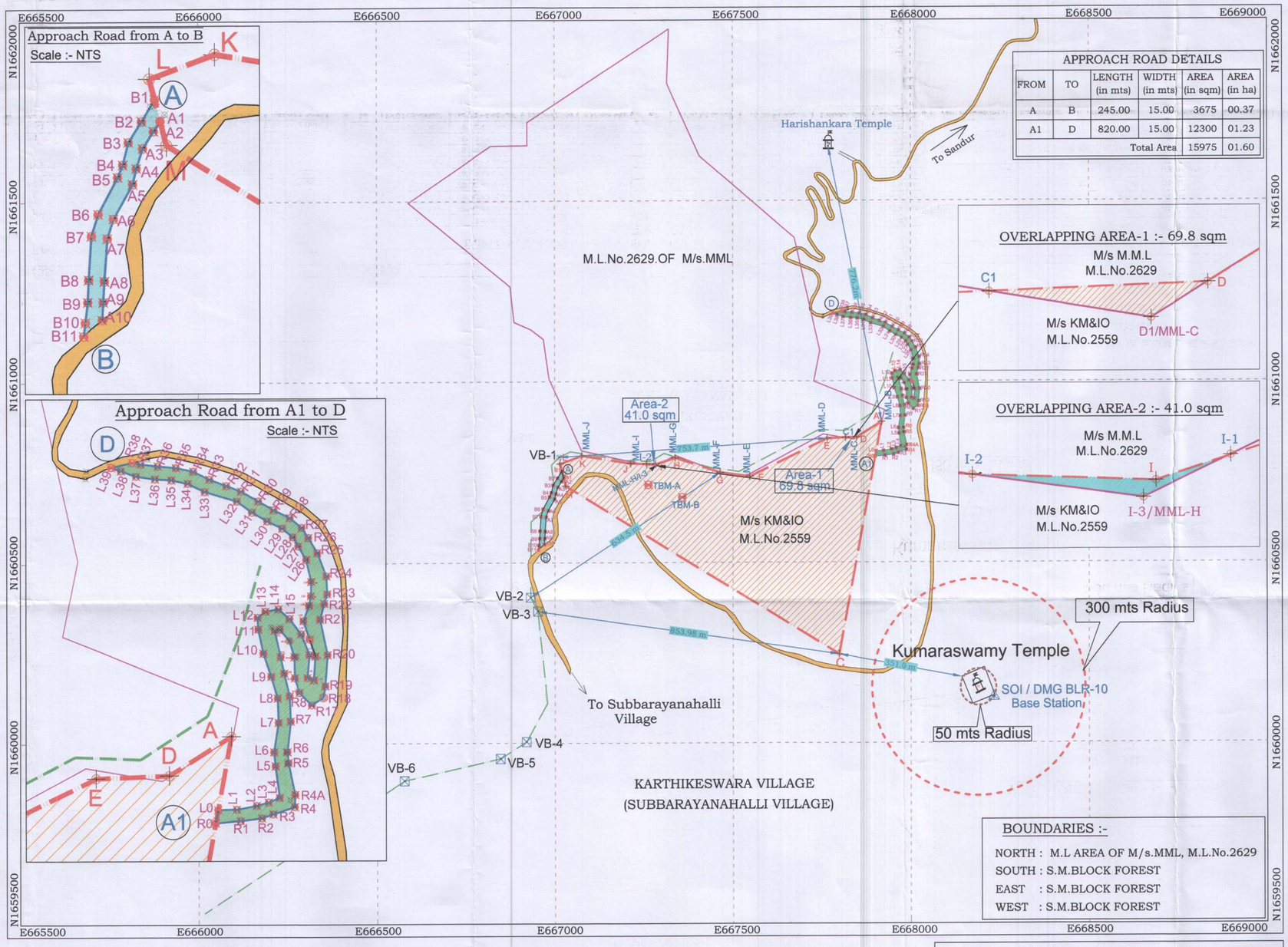
ANNEXURE 15

MAP SHOWING THE AREA PROPOSED FOR MINING LEASE AND APPROACH ROAD OF SWAMIMALAI IRON ORE MINES OF M/s MSPL LIMITED.(ERSTWHILE LEASE OF M/s KARTHIKEYAS MANGANESE & IRON ORE Pvt LTD.) FOR MANGANESE & IRON ORE OVER AN EXTENT OF 28.299 Ha.(26.699 Ha.FOR MINING + 1.60Ha.FOR APPROACH ROAD) IN SWAMIMALAI FOREST BLOCK, SANDUR SOUTH RANGE, SANDUR TALUK, BALLARI DISTRICT, KARNATAKA STATE.



APPROACH ROAD DETAILS					
FROM	TO	LENGTH (in mts)	WIDTH (in mts)	AREA (in sqm)	AREA (in ha)
A	B	245.00	15.00	3675	00.37
A1	D	820.00	15.00	12300	01.23
			Total Area	15975	01.60

Scale :- 1"=660'

Date of Survey :-8th to 17th Jan 2019

0 75 150 300 450 600 750 Meters

INDEX

- M.L AREA OF M/s KARTHIKEYAS MANGANESE & IRON ORE Pvt Ltd. AS PER CEC :- 26.71 Ha.
- ADJECENT MINING LEASE AREA OF M/s MML AS PER CEC
- PROPOSED EXISTING APPROACH ROAD FOR F.C FROM A TO B
- PROPOSED APPROACH ROAD FOR F.C FROM A1 TO D
- EXISTING PUBLIC ROAD
- REVENUE / FOREST REFERENCE POINTS
- 50 mts RADIUS FROM TEMPLE
- 300 mts RADIUS FROM TEMPLE
- OVERLAPPING AREA BETWEEN M/s M.M.L & M/s KARTHIKEYAS MANGANESE & IRON ORE Pvt Ltd. :- **0.011 Ha.** (NEAR CORNER PILLAR - D AND I OF KMIO Pvt Ltd.)

DETAILS OF AREA PROPOSED FOR FOREST CLEARANCE

Sl no	Particulars	Extent (in ha)
1	Mining Lease Area (26.71-0.011=26.699)	26.699
2	Approach Road (A to B)	00.370
3	Approach Road (A1 to D)	01.230
	Total Area	28.299

DGPS COORDINATES OF MINE LEASE BOUNDARY
AS PER SURVEY OF INDIA
DATUM :- WGS84 PROJECTION UTM_43_N

ML CORNERS	LATITUDE	LONGITUDE	EASTING	NORTHING
A	N15°01'04.083"	E76°33'42.715"	667916.398	1660888.007
C	N15°00'43.161"	E76°33'38.581"	667797.461	1660244.126
D	N15°01'02.700"	E76°33'40.366"	667846.556	1660844.989
E	N15°01'02.617"	E76°33'37.607"	667764.148	1660841.851
F	N15°00'59.265"	E76°33'30.326"	667547.392	1660737.312
G	N15°00'59.633"	E76°33'27.537"	667463.992	1660748.034
H	N15°01'01.002"	E76°33'23.329"	667338.016	1660789.231
I	N15°01'00.440"	E76°33'21.491"	667283.229	1660771.548
J	N15°01'00.530"	E76°33'19.136"	667212.852	1660773.824
K	N15°01'01.266"	E76°33'14.556"	667075.904	1660795.498
L	N15°01'00.559"	E76°33'12.508"	667014.874	1660773.329
M	N15°00'58.559"	E76°33'13.025"	667030.762	1660711.980

Chaithanya Geo Surveys
Mining Survey Consultants
Chaithanya Bhavan
Annapurna Badavane, Hospet
Ph : 9686557799 cgshpt@gmail.com

Kaliprasad SB
Chaithanya Geo Surveys

BOUNDARIES :-

NORTH : M.L AREA OF M/s.MML, M.L.No.2629
SOUTH : S.M.BLOCK FOREST
EAST : S.M.BLOCK FOREST
WEST : S.M.BLOCK FOREST

DGPS COORDINATES OF SOI REFERENCE POINT & TEMPORARY BENCH MARK
DATUM :- WGS84 PROJECTION UTM_43_N

POINT ID	LATITUDE	LONGITUDE	NORTHING	EASTING
SOI BLR 10	15°00'39.21718"	76°33'53.12458"	1660125.978	668232.756
TBM-A	15°00'58.59907"	76°33'20.77905"	1660714.832	667262.361
TBM-B	15°00'57.45276"	76°33'23.94892"	1660680.269	667357.295

DGPS COORDINATES OF VILLAGE BOUNDARY POINTS
DATUM :- WGS84 PROJECTION UTM_43_N

POINT ID	LATITUDE	LONGITUDE	NORTHING	EASTING
VB-1	15°01'01.15238"	76°33'12.41796"	1660791.548	667012.060
VB-2	15°00'48.54096"	76°33'09.62628"	1660403.371	666931.393
VB-3	15°00'47.26648"	76°33'10.30492"	1660364.344	666951.939
VB-4	15°00'35.51623"	76°33'09.12688"	1660002.973	666919.286
VB-5	15°00'34.03564"	76°33'06.68365"	1659956.958	666846.622
VB-6	15°00'32.15162"	76°32'57.60674"	1659897.155	666575.888

DGPS COORDINATES OF APPROACH ROAD FROM A TO B
DATUM :- WGS84 PROJECTION UTM_43_N

Point ID	Latitude	Longitude	Northing	Easting
A1	15°00'59.27786"	76°33'12.83939"	1660734.026	667025.053
A2	15°00'58.97919"	76°33'12.62585"	1660724.802	667018.739
A3	15°00'58.46843"	76°33'12.28461"	1660709.033	667008.656
A4	15°00'57.87074"	76°33'12.08062"	1660690.621	667002.692
A5	15°00'57.39445"	76°33'11.96266"	1660675.959	666999.271
A6	15°00'56.35966"	76°33'11.35481"	1660644.029	666981.338
A7	15°00'55.76833"	76°33'11.15938"	1660625.814	666975.628
A8	15°00'54.48458"	76°33'11.05456"	1660586.338	666972.774
A9	15°00'53.86048"	76°33'11.01241"	1660567.149	666971.649
A10	15°00'53.32270"	76°33'10.97605"	1660550.613	666970.680
B1	15°00'59.93534"	76°33'12.66930"	1660754.197	667019.830
B2	15°00'59.27958"	76°33'12.25390"	1660733.956	667007.564
B3	15°00'58.65456"	76°33'11.83652"	1660714.659	666995.231
B4	15°00'57.97764"	76°33'11.65672"	1660693.818	666990.006
B5	15°00'57.60712"	76°33'11.49489"	1660682.397	666985.252
B6	15°00'56.50469"	76°33'10.87411"	1660648.385	666966.948
B7	15°00'55.84650"	76°33'10.66008"	1660628.112	666960.696
B8	15°00'54.52912"	76°33'10.56144"	1660587.603	666958.034
B9	15°00'53.86465"	76°33'10.52886"	1660567.175	666957.205
B10	15°00'53.24449"	76°33'10.44643"	1660548.098	666954.876
B11	15°00'52.83756"	76°33'10.39232"	1660535.581	666953.348

DGPS COORDINATES OF APPROACH ROAD FROM A1 TO D
DATUM :- WGS84 PROJECTION UTM_43_N

Point ID	Latitude	Longitude	Northing	Easting	Point ID	Latitude	Longitude	Northing	Easting
L0	15°01'01.44372"	76°33'42.19295"	1660806.768	667901.388	R0	15°01'00.96443"	76°33'42.09821"	1660792.018	667898.663
L1	15°01'01.45638"	76°33'42.89695"	1660807.306	667922.415	R1	15°01'01.04347"	76°33'43.03776"	1660794.645	667926.710
L2	15°01'01.58486"	76°33'43.64759"	1660811.413	667944.809	R2	15°01'01.13358"	76°33'43.83881"	1660797.584	667950.619
L3	15°01'01.70629"	76°33'44.09630"	1660815.240	667958.185	R3	15°01'01.27267"	76°33'44.26922"	1660801.949	667963.445
L4	15°01'01.86616"	76°33'44.51498"	1660820.241	667970.657	R4	15°01'01.52600"	76°33'45.07813"	1660809.906	667987.552
L5	15°01'03.00557"	76°33'44.36704"	1660855.228	667965.991	R4A	15°01'01.97099"	76°33'45.09940"	1660823.586	667988.091
L6	15°01'03.50624"	76°33'44.31662"	1660870.605	667964.376	R5	15°01'03.11064"	76°33'44.85744"	1660858.561	667980.616
L7	15°01'04.57043"	76°33'44.49427"	1660903.348	667969.451	R6	15°01'03.50592"	76°33'44.81879"	1660870.701	667979.376
L8	15°01'05.45589"	76°33'44.46760"	1660930.556	667968.462	R7	15°01'04.60929"	76°33'44.95275"	1660904.639	667983.137
L9	15°01'06.24220"	76°33'44.23226"	1660954.672	667961.262	R8	15°01'05.52952"	76°33'44.92002"	1660932.914	667981.960
L10	15°01'07.07241"	76°33'43.94308"	1660980.127	667952.443	R9	15°01'06.35486"	76°33'44.72087"	1660958.238	667975.832
L11	15°01'07.95339"	76°33'43.75477"	1661007.162	667946.627	R10	15°01'06.94276"	76°33'44.59163"	1660976.279	667971.844
L12	15°01'08.38156"	76°33'43.73312"	1661020.317	667945.887	R11	15°01'07.90034"	76°33'44.37085"	1661005.662	667965.041
L13	15°01'08.60169"	76°33'44.02860"	1661027.145	667954.666	R12	15°01'07.93122"	76°33'44.57034"	1661006.653	667970.993
L14	15°01'08.67741"	76°33'44.52221"	1661029.576	667969.393	R13	15°01'07.52247"	76°33'44.92605"	1660994.166	667981.707
L15	15°01'08.32379"	76°33'44.93410"	1661018.795	667981.774	R14	15°01'06.93617"	76°33'45.10603"	1660976.185	667987.211
L16	15°01'07.76354"	76°33'45.37156"	1661001.669	667994.962	R15	15°01'06.18569"	76°33'45.12322"	1660953.124	667987.887
L17	15°01'07.00577"	76°33'45.67840"	1660978.445	668004.292	R16	15°01'05.65479"	76°33'45.29144"	1660936.843	667993.027
L18	15°01'06.18618"	76°33'45.59584"	1660953.238	668002.004	R17	15°01'05.19838"	76°33'45.74984"	1660922.912	668006.819
L19	15°01'06.10320"	76°33'45.83766"	1660950.739	668009.246	R18	15°01'05.47342"	76°33'46.19096"	1660931.439	668019.935
L20	15°01'06.95477"	76°33'45.89797"	1660976.924	668010.862	R19	15°01'05.87951"	76°33'46.26626"	1660943.955	668022.096
L21	15°01'07.57310"	76°33'45.68929"	1660995.883	668004.494	R20	15°01'06.99727"	76°33'46.35932"	1660978.327	668024.633
L22	15°01'08.24475"	76°33'45.46262"	1661016.477	667997.578	R21	15°01'08.28690"	76°33'46.08954"	1661017.905	668016.295
L23	15°01'08.80936"	76°33'45.67350"	1661033.874	668003.754	R22	15°01'08.86674"	76°33'46.24540"	1661035.759	668020.824
L24	15°01'09.15546"	76°33'45.74701"	1661044.527	668005.875	R23	15°01'09.21576"	76°33'46.36548"	1661046.510	668024.335
L25	15°01'09.67964"	76°33'45.76414"	1661060.64	668006.272	R24	15°01'09.86999"	76°33'46.33411"	1661066.611	668023.256
L26	15°01'10.47853"	76°33'45.57887"	1661085.154	668000.565	R25	15°01'10.71679"	76°33'46.00316"	1661092.566	668013.187
L27	15°01'10.96418"	76°33'45.28374"	1661100.017	667991.644	R26	15°01'11.26596"	76°33'45.66360"	1661109.372	668002.924
L28	15°01'11.29182"	76°33'45.08231"	1661110.044	667985.556	R27	15°01'11.63457"	76°33'45.41759"	1661120.649	667995.496
L29	15°01'11.61193"	76°33'44.68657"	1661119.799	667973.665	R28	15°01'11.99136"	76°33'44.96901"	1661131.520	667982.020
L30	15°01'11.87851"	76°33'44.12255"	1661127.872	667956.760	R29	15°01'12.28346"	76°33'44.36228"	1661140.369	667963.833
L31	15°01'12.20382"	76°33'43.55097"	1661137.750	667939.616	R30	15°01'12.60281"	76°33'43.79241"	1661150.063	667946.742
L32	15°01'12.60439"	76°33'42.98856"	1661149.942	667922.730	R31	15°01'12.96584"	76°33'43.14664"	1661161.084	667927.373
L33	15°01'12.96250"	76°33'41.77761"	1661160.692	667886.481	R32	15°01'13.16141"	76°33'42.59524"	1661166.978	667910.861
L34	15°01'13.26598"	76°33'41.14109"	1661169.885	667867.403	R33	15°01'13.40420"	76°33'41.95969"	1661174.306	667891.824
L35	15°01'13.39657"	76°33'40.53070"	1661173.770	667849.142	R34	15°01'13.69723"	76°33'41.35323"	1661183.183	667873.645
L36	15°01'13.43732"	76°33'39.91072"	1661174.891	667830.614	R35	15°01'13.83738"	76°33'40.70408"	1661187.354	667854.225
L37	15°01'13.54220"	76°33'39.20155"	1661177.965	667809.408	R36	15°01'13.89955"	76°33'40.01701"	1661189.120	667833.689
L38	15°01'13.74024"	76°33'38.63101"	1661183.931	667792.323	R37	15°01'13.97948"	76°33'39.37704"	1661191.441	667814.555
L39	15°01'13.86779"	76°33'38.26353"	1661187.774	667781.319	R38	15°01'14.03809"	76°33'39.06354"	1661193.176	667805.179

DGPS COORDINATES OF OVERLAPPING AREA-1 EXTENT 69.80sqm
DATUM :- WGS84 PROJECTION UTM_43_N

ML CORNERS	LATITUDE	LONGITUDE	EASTING	NORTHING
D1/MML-C	N15°01'02.54370"	E76°33'40.09644"	667838.526	1660840.132
C-1	N15°01'02.66895"	E76°33'39.33676"	667815.807	1660843.821
D	N15°01'02.700"	E76°33'40.366"	667846.556	1660844.989

DGPS COORDINATES OF OVERLAPPING AREA-2 EXTENT 41.0 sqm
DATUM :- WGS84 PROJECTION UTM_43_N

ML CORNERS	LATITUDE	LONGITUDE	EASTING	NORTHING
MML-H	N15°01'00.36249"	E76°33'21.43021"	667281.430	1660769.165
I	N15°01'00.440"	E76°33'21.491"	667283.229	1660771.548
I-1	N15°01'00.54894"	E76°33'21.84270"	667293.711	1660774.982
I-2	N15°01'00.47210"	E76°33'20.62763"	667257.433	1660772.365

TOTAL OVERLAPPING AREA :-(69.80sqm+41.0sqm=110.8sqm) 0.011 Ha.

DGPS COORDINATES OF REMAINING AREA :26.699 Ha. (26.71-0.011)
AFTER EXCLUDING OVERLAPPING AREA
DATUM :- WGS84 PROJECTION UTM_43_N

ML CORNERS	LATITUDE	LONGITUDE	EASTING	NORTHING
A	N15°01'04.083"	E76°33'42.715"	667916.398	1660888.007
D	N15°01'02.700"	E76°33'40.366"	667846.556	1660844.989
D1/MML-C	N15°01'02.54370"	E76°33'40.09644"	667838.526	1660840.132
C-1	N15°01'02.66895"	E76°33'39.33676"	667815.807	1660843.821
E	N15°01'02.617"	E76°33'37.607"	667764.148	1660841.851
F	N15°00'59.265"	E76°33'30.326"	667547.392	1660737.312
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H	N15°01'01.002"	E76°33'23.329"	667338.016	1660789.231
I-1	N15°01'00.54894"	E76°33'21.84270"	667293.711	1660774.982
I-3/MML-H	N15°01'00.36249"	E76°33'21.43021"	667281.430	1660769.165
I-2	N15°01'00.47210"	E76°33'20.62763"	667257.433	1660772.365
J	N15°01'00.530"	E76°33'19.136"	667212.852	1660773.824
K	N15°01'01.266"	E76°33'14.556"	667075.904	1660795.498
L	N15°01'00.559"	E76°33'12.508"	667014.874	1660773.329
M	N15°00'58.559"	E76°33'13.025"	667030.762	1660711.980
C	N15°00'43.161"	E76°33'38.581"	667797.461	1660244.126

PAPPURI NAGARAJU
AGM-Mines
For MSPL LIMITED

S. MURALI KRISHNA
MINE SURVEYOR
For MSPL LIMITED

For MSPL LIMITED
K. Madhusudhana
Vice President Mines and CC

Deputy Range Foreet Officer
S.M.B. Section
Sandur South Range

RANGE FOREST OFFICER
Sandur South Range
Sandur

Assistant Conservator of Forests,
Bellary Sub-Division,Bellary

Deputy Conservator of Forests,
Ballari Division, Ballari.