CO ORDINATES OF THE TREE FERN AREA
PORTION 7B

POINT ID	EASTING	NORTHING
B1	E81° 12' 57.27"	N18° 41' 55.02"
B2	E81° 12' 36.78"	N18° 41' 54.37"
B3	E81° 12' 36.49"	N18° 41' 53.10"
B4	E81° 12' 36.03"	N18° 41' 52.73"
B5	E81° 12' 35.63"	N18° 41' 52.58"
B6	E81° 12' 35.07"	N18° 41' 52.88"
B7	E81° 12' 34.87"	N18° 41' 52.82"
B8	E81° 12' 34.28"	N18° 41' 52.87"
B9	E81° 12' 33.97"	N18° 41' 53.23"
B10	E81° 12' 33.54"	N18° 41' 53.38"
B11	E81° 12' 34.07"	N18° 41' 54.79"
B12	E81° 12' 34.34"	N18° 41' 56.92"
B13	E81° 12' 34.94"	N18° 41' 59.99"
B14	E81° 12' 35.08"	N18° 41' 56.42"
B15	E81° 12' 35.15"	N18° 41' 56.98"
B16	E81° 12' 35.47"	N18° 41' 57.23"
B17	E81° 12' 35.83"	N18° 41' 57.53"
B18	E81° 12' 36.08"	N18° 41' 57.90"
B19	E81° 12' 35.34"	N18° 41' 59.38"
B20	E81° 12' 43.34"	N18° 41' 18.22"
B21	E81° 12' 44.53"	N18° 42' 25.48"
B22	E81° 12' 45.15"	N18° 41' 36.23"
B23	E81° 12' 52.02"	N18° 41' 11.05"
B24	E81° 12' 58.04"	N18° 41' 16.25"
B25	E81° 13' 00.20"	N18° 41' 16.38"
B26	E81° 13' 00.53"	N18° 41' 15.71"
B27	E81° 13' 00.33"	N18° 41' 14.63"
B28	E81° 13' 00.50"	N18° 41' 13.94"
B29	E81° 13' 00.47"	N18° 41' 12.54"
B30	E81° 13' 00.70"	N18° 41' 12.14"
B31	E81° 13' 00.00"	N18° 41' 11.07"
B32	E81° 13' 00.82"	N18° 41' 10.23"
B33	E81° 13' 00.35"	N18° 41' 09.60"
B34	E81° 13' 00.50"	N18° 41' 08.52"
B35	E81° 13' 00.39"	N18° 41' 08.37"
B36	E81° 13' 00.50"	N18° 41' 07.60"
B37	E81° 13' 00.47"	N18° 41' 06.92"
B38	E81° 13' 00.42"	N18° 41' 06.42"
B39	E81° 13' 01.37"	N18° 41' 06.37"
B40	E81° 13' 01.68"	N18° 41' 06.23"
B41	E81° 13' 01.14"	N18° 41' 4.90"
B42	E81° 13' 52.83"	N18° 41' 20.56"
B43	E81° 13' 51.87"	N18° 41' 12.19"
B44	E81° 14' 46.02"	N18° 41' 03.85"
B45	E81° 14' 52.11"	N18° 41' 49.53"
B46	E81° 13' 38.90"	N18° 41' 48.57"
B47	E81° 13' 38.72"	N18° 41' 48.55"
B48	E81° 13' 38.68"	N18° 41' 48.62"
B49	E81° 13' 38.65"	N18° 41' 49.62"
B50	E81° 13' 38.84"	N18° 41' 50.65"
B51	E81° 13' 39.18"	N18° 41' 51.87"
B52	E81° 13' 38.84"	N18° 41' 52.73"
B53	E81° 13' 38.84"	N18° 41' 53.58"
B54	E81° 13' 38.77"	N18° 41' 54.53"
B55	E81° 13' 38.57"	N18° 41' 54.90"

CO ORDINATES OF THE TREE FERN AREA
PORTION 7A

POINT ID	EASTING	NORTHING
A1	E81° 12' 32.21"	N18° 41' 48.68"
A2	E81° 12' 31.80"	N18° 41' 47.78"
A3	E81° 12' 30.77"	N18° 41' 47.27"
A4	E81° 12' 35.34"	N18° 41' 47.52"
A5	E81° 12' 34.38"	N18° 41' 47.42"
A6	E81° 12' 34.10"	N18° 41' 47.10"
A7	E81° 12' 32.79"	N18° 41' 46.90"
A8	E81° 12' 31.88"	N18° 41' 44.46"
A9	E81° 12' 30.78"	N18° 41' 44.93"
A10	E81° 12' 31.10"	N18° 41' 43.73"
A11	E81° 12' 31.20"	N18° 41' 43.38"
A12	E81° 12' 31.64"	N18° 41' 43.47"
A13	E81° 12' 31.91"	N18° 41' 43.57"
A14	E81° 12' 33.39"	N18° 41' 51.08"
A15	E81° 12' 33.58"	N18° 41' 51.14"
A16	E81° 12' 33.71"	N18° 41' 51.58"
A17	E81° 12' 33.81"	N18° 41' 51.87"
A18	E81° 12' 33.81"	N18° 41' 52.11"
A19	E81° 12' 33.87"	N18° 41' 52.13"
A20	E81° 12' 34.34"	N18° 41' 52.24"
A21	E81° 12' 34.98"	N18° 41' 52.24"
A22	E81° 12' 35.80"	N18° 41' 51.80"
A23	E81° 12' 36.07"	N18° 41' 52.30"
A24	E81° 12' 37.27"	N18° 41' 53.18"
A25	E81° 12' 37.38"	N18° 41' 53.52"
A26	E81° 12' 37.43"	N18° 41' 54.41"
A27	E81° 12' 38.23"	N18° 41' 54.37"
A28	E81° 12' 38.16"	N18° 41' 52.54"
A29	E81° 12' 37.77"	N18° 41' 52.04"
A30	E81° 12' 37.77"	N18° 41' 51.71"
A31	E81° 12' 37.77"	N18° 41' 51.71"
A32	E81° 12' 37.77"	N18° 41' 51.71"
A33	E81° 12' 37.77"	N18° 41' 51.71"
A34	E81° 12' 37.77"	N18° 41' 51.71"
A35	E81° 12' 37.77"	N18° 41' 51.71"
A36	E81° 12' 37.77"	N18° 41' 51.71"
A37	E81° 12' 37.77"	N18° 41' 51.71"
A38	E81° 12' 37.77"	N18° 41' 51.71"
A39	E81° 12' 37.77"	N18° 41' 51.71"
A40	E81° 12' 37.77"	N18° 41' 51.71"
A41	E81° 12' 37.77"	N18° 41' 51.71"
A42	E81° 12' 37.77"	N18° 41' 51.71"
A43	E81° 12' 37.77"	N18° 41' 51.71"
A44	E81° 12' 37.77"	N18° 41' 51.71"
A45	E81° 12' 37.77"	N18° 41' 51.71"
A46	E81° 12' 37.77"	N18° 41' 51.71"
A47	E81° 12' 37.77"	N18° 41' 51.71"
A48	E81° 12' 37.77"	N18° 41' 51.71"
A49	E81° 12' 37.77"	N18° 41' 51.71"
A50	E81° 12' 37.77"	N18° 41' 51.71"
A51	E81° 12' 37.77"	N18° 41' 51.71"
A52	E81° 12' 37.77"	N18° 41' 51.71"
A53	E81° 12' 37.77"	N18° 41' 51.71"
A54	E81° 12' 37.77"	N18° 41' 51.71"
A55	E81° 12' 37.77"	N18° 41' 51.71"

RECLAMATION/REHABILITATION PLAN

SL NO	ZONE	AREA IN HECTARES	ITEM COVERED	YEAR OF RECLAMATION	SHOWN
1	RA1	49.553	Back filling with plantation	14th year to 21st year	
2	RA2	22.673	Plantation with native species on benches	21st year onwards	
3	RA3	20.040	Formation of water body	21st year	
4	RA4	1.672	Waste dump1 area plantation	3rd year	RA4
5	RA5	20.062	Waste dump 2 area plantation	9th-10th year	RA5
6	RA6	21.133	Waste dump 3 area plantation	11th-12thyear	RA6
7	RA7	18.500	Waste dump 4 area plantation	13th-14th year	RA7
8	RA8	12.703	Waste dump 5 area plantation	15th-16th year	RA8
9	RA9	47.388	Infrastructural area excluding roads	22nd-24th year	RA9
10	RA10	11.225	Magazine area excluding approach road	22nd-23rd year	RA10
11	RA11	8.488	Safety zone plantation	1st-5th year	RA11
12	RA12	70.520	Float ore area plantation	22nd-25th year	RA12
13	RA13	241.642	Gap plantation @ 12.08 hect per year for 20 years	From 2nd year onwards	RA13
Total=		545.603			

Conceptual Land Use of Bailadila Iron Ore Deposit-4

Sl. No	Particulars	Plantation	Water Body	Public Use	Un- Disturbed	Total
1	Top soil dump	0	0	0	0	0
2	Waste dump	74.07	0	0	0	74.07
3	Excavation (Insitu)	72.23	20.04	1.84	0	94.11
4	Excavation (Float ore)	70.52	0	0	0	70.52
	Area under infrastructure facilities (Crushing Plant, PSP, Downhill Conveyor (part), internal roads, Service Centre, ETP, Mining Office, Canteen, Rest Shelter, Substation, Power Lines , pump house, pickup weir , water pipelines and Security barrack etc)	43.146	0	22.754	0	65.9
5	Area under Environmental protection, improvement and EMP works	241.642	0	0	0	241.642
6	Area under explosive magazine & safety zone	11.225	0	4.145	0	15.37
7	Tree fern area not to be diverted					
	Portion 7A	0	0	0	2.449	2.449
	Portion 7B	0	0	0	74.047	74.047
8	Safety zone Along The ML boundary	8.488	0	0	0	8.488
	Total	521.321	20.04	28.739	76.496	646.596

LAND REQUIRED FOR DIVERSION WITH IN ML

S.NO	Particulars	Area in ha	RF/PF/REV
1	Total Mining Lease area	646.596	Reserve Forest
2	Tree fern area not to be diverted	76.496	Reserve Forest
3	Area required for diversion within Mining Lease	570.100	Reserve Forest

INDEX

- ML BOUNDARY
- NALAH
- SAFETY ZONE LINE WITH IN 7.5M OF ML
- LEASE BOUNDARY PILLAR

ML CO ORDINATES(WGS84 DATUM) OF DEPOSIT NO.4

PILLAR	LONGITUDE	LATITUDE
A	81° 12' 03.2565"	18° 43' 38.3261"
B	81° 13' 04.8442"	18° 43' 38.5275"
C	81° 13' 06.2499"	18° 43' 12.3667"
D	81° 13' 03.6078"	18° 43' 12.2794"
E	81° 13' 07.0266"	18° 41' 26.1792"
F	81° 12' 31.8927"	18° 41' 48.2219"
G	81° 12' 02.9019"	18° 41' 50.3879"

Certified that the plans and sections prepared are based on the ML boundary co ordinates provided in the LOI issued by the State Government

Dr. Sanjeev Kumar Sinha (QP)

Rahas Bihari Pradhan(QP)

NMDC-CMDC LIMITED
BAILADILA IRON ORE DEPOSIT-4

CONCEPTUAL PLAN

G. Venkateswarlu AGM(Survey) Prepared	R.B.Pradhan Sr.Manager(Min) Checked	J.A.Kamalakar DGM(Env) Checked	Dr.S.K.Sinha DGM(Min) Approved

SCALE :- 1:4000 | DATE OF SURVEY 25-08-2020 | DRG.NO CG/BLD/DEP-04/NCL/FC/2021/DJA