

I/27465/2024

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/TMK/FE/23/BNG

Mine code : 40KAR19021

- (i) Name of the Inspecting : **S006**) **DR.SURESH PRASAD**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Rudraiah A M, Asst General Manager
Official with
Designation
- (iv) Date of Inspection : 19/01/2024
- (v) Prev.inspection date : 12/08/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KAREKURCHI (ML 2028)**
- (b) **Registration NO.** : **IBM/244/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : TUMKUR
Village : KAREKURCHI
Taluka : TIPTUR
Post office : RAJATHADRIPURA
Pin Code :
FAX No. : 080-23343639 (F),
E-mail : ml2028.klci@gmail.com
Phone : 080-23343636,/37 944837640.
- (f) Police Station : K.B.CROSS
- (g) First opening date : 13/01/1987
- (h) Weekly day of rest : SUN
2. Address for : Smt.Dr. R.Mathura Bai(Legal Representative)
correspondance #1, Ahobalam, 3rdCross, 5th main Sanjaynagar,
Bengaluru-560 094
3. (a) Lease Number : KAR0459
- (b) Lease area : 16.18
- (c) Period of lease : 20
- (d) Date of Expiry : 12/01/2007
4. Mineral worked : IRON ORE Main

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5. Name and Address of the

Lessee : KARNATAKA LIMPO CEMENT INDUSTRY
 NO-862,DrM.C.MODI ROAD,
 BASAVESWARANAGAR,
 BANGALORE-560086 TUMKUR
 KARNATAKA
 Phone:080-233436/37 9448376404, 9880231313
 FAX :080-23343639

Owner : Smt.Dr. R.Mathura Bai(Legal Representative)
 #1, Ahobalam, 3rd Cross,
 5th main, Sanjaynagar,
 Bengaluru-560 094
 BANGALORE KARNATAKA
 Phone: 9448307993
 FAX :

Agent : Dharam T
 S/o R Tejaswi #1, Ahobalam,
 3rd cross 5thMain,
 Sanjaynagar, Bengaluru-560
 094 BANGALORE KARNATAKA
 Phone: 9886044554
 FAX :

Mining Engineer

Name : A M RUDRAIAH,Full Time
 Qualification : B E MINING
 Appointment/ : 20/12/2021
 Termination date

Mining Engineer

Name : Rudraiah A M,Full Time
 Qualification : BE(Mining Engineering)
 Appointment/ : 20/12/2021
 Termination date

Geologist

Name : RUDRAIAH A M . . . ,Full Time
 Qualification :
 Appointment/ : 20/12/2021
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	26/03/2004
Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	10/10/2006
	:	Mining Scheme rule 12 MCDR1988	26/02/2014
	:	MP review under 17(1) MCR 2016	06/03/2020
	:	MP review under 17(1) MCR 2016	21/01/2022

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	-	-	
1b	Exploration over lease area for geological axis 1 or 2	Proposed for Iron ore depth persistency study	-	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	00.000Lakhs	0.0375Lakhs	02Trenches &04 Trial Pits Expenditure
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	-	-
1e	Balance reserve as on 01/04/20	1384975	1384975	As per the AR-22-23.
1f	General remarks of inspecting officers on geology, exploration etc		The iron ore is mainly hematite. Iron ore float is also occurring over as Insitu weathered float Hematitic iron ore. There are repetitive bands/reefs of Hematitic iron ore (HIO) & Hematitic siliceous iron ore (HSIO) apart from Hematitic iron ore float all along the lease area surface.	Manganese occurs as small lensoidal bodies with poor recovery percentage of ore. The entire lease area has been explored under G-1 scale horizontally. 10 core boreholes proposed in Iron Ore zone and 4 in Mn ore Zone to prove the depth persistence of the respective ore bodies which is not carried out during 2022-23. However 31 core boreholes over 1669m covering entire lease area has been carried out during 2023-24 and the results are yet to be submitted.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	N-1475559 (to)1475361 E-685590(to) 685663	N-1475559 (to) 1475361 E-685590(to)685663	Workings carried out within the proposed grid intervals.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	-	Over burden 04 Mineral 03	
2c	Stripping ratio or ore to OB ratio	1:0.07	1:0.04	
2d	Quantity of topsoil generation in m3	-	125MT	
2e	Quantity of overburden generation in m3	1894	1891	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			As proposed and observed the mine is developed with 2 pits namely Iron Ore Pit (1) and Manganese Ore Pit (2). Only Iron ore pit is being operated with 4 benches in Over burden and 3 benches in Mineral. Float Ore is also being mined with concurrent backfilling without forming any pit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	44997MT	41850MT	As per AR-2022-23.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	

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3d	Quantity of mineral reject generation	0	0	
3e	Grade of mineral rejects generation and threshold value declared.	0	0	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method is proposed for segregating of ROM by C.S plant.	Mechanized method is proposed for segregating of ROM by C.S plant.	As per the proposals.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	
3j	Provision of drilling and blasting in mineral benches	NA	NA	
3k	Provision of mining machineries in mineral benches	Permission for adopting HEMM obtained by 106-2 (b) under MMR 1961 from DMS	Accordingly, HEMM machinery being deployed	As per the proposals.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, proposed in Scheme of mining	Yes, Bench height in O/B & mineral are suitable for method of mining.	Iron Ore pit b/w section A-A; to B-B', bench width not maintained as per proposal. Violation issued.
3m	Total area covered under excavation/pits	3.78Ha	3.78Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.07	1:0.04	

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3o	Total area put in use under different heads at the end of year	1. Area for mining-3.78 Ha. 2. Area for dumps-1.562 Ha. 3. Reclamation/Rehabilitaed-0.225 Ha. 4.Area for plant/building etc 0.564Ha. 5.Other purpose 9.419 Ha.	1. Area for mining-3.78 Ha. 2. Area for dumps-1.562 Ha. 3. Reclamation/Rehabilitaed -0.225 Ha. 4.Area for plant/building etc 0.564Ha. 5.Other purpose 9.419 Ha.	In order and as per AR submitted.
3p	Production of ROM mineral during the last five year period as applicable	2018-19: 00 2019-20: 00 2020-21:40025MT 2021-22:40023 2022-23:44997 (in tonnes)	2018-19: 00 2019-20: 00 2020-21:00 2021-22:40023 2022-23:41850 (in tonnes)	Mining Operation resumed on 01/04/2021
3q	General remarks of inspecting officers on method of mining etc.			As proposed and observed the Open pit mine is developed with 2 pits namely Iron Ore Pit (1) and Manganese Ore Pit (2). Only Iron ore pit is being operated with 4 benches in Over burden and 3 benches in Mineral. Float Ore is also being mined with concurrent backfilling without forming any pit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Earmarked area for O.B dumping proposed in the Approved scheme of mining	O.B being dumped in the earmarked area as proposed in the RUMP.	As per the proposals.
4b	Location of topsoil, OB and mineral reject dumps	PD2 OB active dump	PD2 OB active dump	
4c	Number of dumps within lease area and outside of lease area	2 No Active dump & 03 inactive dump Outside the lease area 1 inactive dump EID 1(stabilized)	1 No Active dump & 03 inactive dump Outside the lease area 1 inactive dump EID 1(stabilized)	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	-	-	
4e	Number of active and alive dumps.	1	1	
4f	Number of dead dumps.	3	3	
4g	Number of dumps established.	3	3	
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed for active dumps	-	
4i	Length of Retaining wall or garland drain all along dumps	-	206M Toewall & 215M Garland drain	
4j	Number of settling ponds	0	1	
4k	Specific comments of inspecting officer on waste dump management			All the waste dumps are systematically managed with all the proposed engineering measures for its stabilization.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	NA	NA	Concurrent Back filling done in float ore extracted area without forming a pit.
5b	Area under backfilling of mined out area	NA	0.25Ha	Concurrent Back filling done in float ore extracted area without forming a pit.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	
5d	Total area fully reclaimed and rehabilitated	NA	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Concurrent backfilling is being carried out in the float ore mining area without forming a pit and later this area is proposed for Dump as the same will be located outside the UPL.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).		Submitted annual report for the year 2022-23	
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	00	0.2240	(Gap filling plantation is done in the safety zone as proposed.)

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6d	No. of saplings planted during the year	250	320	(Gap filling plantation is done in the safety zone as proposed.)
6e	Cumulative no .of plants	5500	5500	
6f	Any other method of rehabilitation	No proposal	NA	
6g	Cost incurred on watch and care during the year	No proposal	3.28Lakhs Rupees	Appears to be correct.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	947m2 Back filling done on float ore extracted area.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NA	NA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	00.00	0.00Ha	

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6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.00Ha	0.00Ha	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitoring	Regular monitoring	Regular environmental monitoring is carried out.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			All the proposed PMCP activities have been carried out satisfactorily.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	It was proposed to carry out sorting of grade wise mineral within the lease	Grade wise mineral sorting is being carried out within the lease area.	As per the proposals.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	-	Grade wise mineral sorting by mechanical method.	As per the proposals.
7c	Different grade of mineral sorted out at mines.		Grade of mineral sorted out at mines Below 45-51%Fe 51-55% Fe 55-58% Fe 58-60%Fe	

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7d	Any beneficiation process at mines .	NIL	NIL	There is no beneficiation process except mechanical crushing & screening plant for sizing of ore.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The low-grade ores are suitably blended with higher grade ores to bring it to marketable grade thereby taking care of Mineral Conservation aspect.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	125MT	
8b	Concurrent use or storage of topsoil	NIL	Top soil utilized for plantation on dumps in the past.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate earmarked area for OB dump proposed in the approved scheme of mining	O.B being dumped in the separate earmarked area as proposed in the approved RUMP.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)		Phase wise afforestation done Over inactive part of the active dumps, inactive dumps, all along the roads, Safety zone around the mining area, green belt around the C & S plant.	Verified and proposals complied.

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	5000 plants WML and 2000 plants OML in the buffer zone.	Appears to be correct.
8g	Survival rate	80%	Appears to be correct.
8h	Water sprinkling on roads to control airborne dust	One water tank of capacity 4000Ltrs provided for water sprinkling on roads to suppress the dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty in and around the mines is satisfactorily maintained by way of plantation within the ML and outside the ML in buffer Zone.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to January 2024. ***** A.R. Submitted up to 31/03/2023 on 30/06/2023		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer Rudraiah A M, Geologist HaglambeMarula sidappaMurgypa		

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1. Area for mining-3.78 Ha. 2. Area for dumps-1.562 Ha. 3. Reclamation/Rehabilitaed-0.225 Ha. 4.Area for plant/building etc. 0.564Ha. 5.Other purpose 9.419 Ha	1. Area for mining-3.78 Ha. 2. Area for dumps-1.562 Ha. 3. Reclamation/Rehabilitaed -0.225 Ha. 4.Area for plant/building etc. 0.564Ha. 5.Other purpose 9.419 Ha	In Order
9d	Scrutiny of Annual return on afforestation	Within the lease area 320 No's of plants planted and survival rate is 80%.	Appears to be correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	-	-	NIL

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9f	Scrutiny of Annual return on ROM stock and/or graded ore	Iron ore ROM stock 51723.00MTs Reserves Proved mineral reserves (111)-1006958 MTs Probable mineral reserve (122) 378017MTs Feasibility mineral resource (211)76250MTs Indicated mineral resource (332)14185MTs Inferred mineral resource (333)-683792MTs Manganese ore Reserves Proved mineral reserve (111) 2575MTs Probable mineral reserve 2696MTs Inferred mineral resource 1345MT's	Closing stock at the end of the year2022-23
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value - Fines- 1398.69/- Lumps- 1568.65/- Ex-mine price Lumps=1568.65/ - Fines=1398.69/ - Production cost per ton= 1713.09/-	Sale value, average ex mine prices & Production cost per ton during the year 2022-23

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9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets 10809472/-	-	Value of the fixed assets at the end of the year2022-23.
9k	Scrutiny of Annual return on mining machineries	Machinery details Back hoe -01No Front end loaders -01No Tippers - 02No's Water tanker -01No Crusher - 01No Diesel generator 02No's	-	The reported machineries were found deployed on the day of inspection.

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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	07/03/2024			

Date :**(DR.SURESH PRASAD)**

Indian Bureau of Mines