

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR inspection REPORT**

**Bangalore regional office**

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

**Mine code :** 40KAR19021

- (i) Name of the Inspecting : **S47** ) **DR. Sudhakara T.L**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sri.Rudraiah A. M., Sr. Mines Manager, Sri.Karunakara  
Official with  
Designation
- (iv) Date of Inspection : 12/08/2022
- (v) Prev.inspection date : 23/09/2013

**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

## 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

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

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	11 nos. for the Year 2020-21 & 1 nos. for the Year 2021-22 (Total 22 boreholes)	24 DTH boreholes, 06 Trenches and 31 Trial pits	Lessee has completed the proposed drilling activity.
1b	Exploration over lease area for geological axis 1 or 2	--	G1 level explored area : 13.71Ha	Total mineralized area in the lease is 10.31Ha, lessee has explored the mineralized area under G1 level by drilling, trenching and pitting.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	2.50Lakhs	3.49575Lakhs	24 DTH, 06Trenches & 31 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	As on 01.09.2022 Iron Ore: 1466848 Mn Ore:5271 tons	As on 01.04.2022 Iron ore: 1426825 tons Mn Ore:5271 tons	

1f	General remarks of inspecting officers on geology, exploration etc	Total mineralized area in the lease is 10.31Ha, lessee has explored the mineralized area under G1 level by drilling, trenching and pitting. Further to have a high level of confidence and to know the continuity of the Mn ore zone, lessee has proposed 06 nos. pits, 08 nos. of trenches, 13 nos. boreholes during the year 2022-23 and 2022-24 in the approved RMP dated.....
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-1475294 (to ) 1475386 E-685649(to) 685740	N- 1475493 E-685624 to N- 1475421 E- 685725	Float ore production proposed between section line A1-A1' to B-B' to C-C' in between the grids 685616E - 685724 and 1475369N - 1475523 N, however , production & development/excavation are not carried out at the proposed location. Violation pointed out.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Over burden 04 benches Mineral 03 benches	Over burden 04 benches Mineral 03 benches	Benches height 4 to 6m.

2c	Stripping ratio or ore to OB ratio	1:0.60	1:0.50	Ore: 40023 tons OB (Waste) : 20150 tons Waste generation is less due to recovery is 100%
2d	Quantity of topsoil generation in m3	--	150MT	Utilized for plantation purpose
2e	Quantity of overburden generation in m3	11500	9159	OB Bulk Density is 2.2 t/cub.m.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Lessee has not carried out Production & development during 2020-21 due to statutory clearance issue. Deviation in lateral extent observed in the development at float ore production area, violation pointed out.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	There are 03 pits in the lease area, in which 02 Mn ore pits and 01 iron ore pit. Mn ore pits are inactive.
3b	Quantity of ROM mineral production proposed	40023MT	40023MT	Achieved as proposed.
3c	Recovery of sailable/usable mineral from ROM production	70% in Reef ore and 60% in float ore	100% recovery of ore. No waste/reject generated.	As per Annual return. Lessee stated that, ROM produced is completely salable and no reject/waste generated.

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3d	Quantity of mineral reject generation	19503	00	100% ore recovery, there is no reject/waste generation.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	NA	--
3f	Quantity of sub grade mineral generation.	No proposal	NA	There are 11 no. of old sub-grade stacks (Fe 45% to 50%) in the lease area. These stacks are identified by ICFRE during 2011.
3g	Grade of sub grade mineral generation	No proposal	NA	--
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 crushing and screening	Method of mining is as per proposal.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	NA	--
3j	Provision of drilling and blasting in mineral benches	No proposal	NA	--
3k	Provision of mining machineries in mineral benches	Permission for adopting HEMM obtained by 106-2 (b) under MMR 1961 from DMS.	HEMM machinery being deployed in the Mine.	Back Hoe, Dumper, wheel loader, water tanker etc observed at site during the date of inspection.
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, Benches height in O/B & mineral are suitable for method of mining.	
3m	Total area covered under excavation/pits	3.78Ha	Around 3.78Ha	

3n	Ore to OB ratio for the pit/mine during the year.	1:0.63	1:0.50	Ore: 40023 tons OB (waste) : 20150 tons. Waste generation is less due to recovery is 100%.
3o	Total area put in use under different heads at the end of year	Proposal at the end of the Plan period (upto 31.03.2022) 1. Area for mining-3.78 Ha. 2. Area for dumps-1.562 Ha. 3. Reclamation/Rehabilitated- 0 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/Rehabilitated- 0 Ha. 4.Area for plant/building etc 0.564Ha. 5.Other purpose 9.419 Ha.	Reclamation/ Rehabilitated area is Nil. Only plantation done at 0.225Ha waste land at SW part of the lease.
3p	Production of ROM mineral during the last five year period as applicable	2017-18:00 2018-19: 00 2019-20: 00 2020- 21:40025MT 2021-22: 40023 ( in tonnes)	2017-18:00 2018-19: 00 2019-20: 00 2020-21:00 2021-22: 40023 (in tonnes)	Due to statutory clearances, Mining acuity not carried out from 2017-18 to 2020-21 and Mining Operation resumed on 01/04/2021.
3q	General remarks of inspecting officers on method of mining etc.			The ore type is soft & friable in nature, method of Mining is carried using machineries with crushing and screening and no blasting.

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	OB dump proposed at E685576 to E.685635 and N.1475103 to 1475168	Waste being dumped in the earmarked area as proposed in the Mining Plan.	Top soil generated has been utilized for plantation.

4b	Location of topsoil, OB and mineral reject dumps	Top soil : No proposal OB : PD2 Mineral Reject: No Proposal	OB - PD2 active dump (location E. 685607 N. 1475211.). No top soil and Mineral reject dumps.	
4c	Number of dumps within lease area and outside of lease area	Within lease : 4nos. of dumps.  Outside the lease area 1 inactive dump EID 1(stabilized)	Within lease : 4nos. (1 Active dump & 03 inactive dump)  Outside the lease area 1 inactive dump EID 1(stabilized)	At northern part of the lease area 01 dump partly outside the lease as per CEC sketch.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	--	Outside UPL	
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.	Yes along the in-active dumps (ID1, ID2 and ID3)	Along the toe of the stabilized dumps ID1, ID2 and ID3 retaining wall all along the toe of the dump (eastern and south-eastern part) of the dump exists.	Retaining wall along the toe of the dumps ID-1 : ~127m; ID-2: 185m and ID-3 ~100m exits.
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall (RW) & Garland Drain (GD) proposed along toe of active Dump PD2  RW: 368m GD: 473m	NIL	Proposed Retaining wall of 368m and Garland Drain of 473m along the toe of Dump PD-2 not constructed, violation pointed out.
4j	Number of settling ponds	Check dams : 02 nos.	NIL	Proposed check dams not constructed, violation pointed out.

4k	Specific comments of inspecting officer on waste dump management	Waste Dumps ID-1, ID-2 and ID-3 are stabilized and Retaining wall constructed along the toe of the slope side of the dump. Proposed Retaining wall of 368m and Garland Drain of 473m along the toe of Dump PD-2 not constructed, violation pointed out. Lessee has carried out plantation on in-active dumps.
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Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal	NA	Backfilling not yet commenced.
5b	Area under backfilling of mined out area	No proposal	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	150 tons	Top soil generated has been utilized for plantation.
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			There is no proposal for backfilling. Lessee has used the small quantity of top soil generated for plantation purpose.

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 2021-22	
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	0.2247	0.2247	SW part of the lease area
6d	No. of saplings planted during the year	500	1410	
6e	Cumulative no .of plants	--	--	
6f	Any other method of rehabilitation	No proposal	NA	
6g	Cost incurred on watch and care during the year	No proposal	2.80Lakhs Rupees	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal	NA	
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	0.2247Ha	0.2247Ha	Plantation carried out at SW part of the lease area
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.2247Ha	0.2247Ha	Plantation carried out at SW part of the lease area
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitoring	Monitoring regularly as proposed.	Last monitored is on 23/03/2022 by MSV Analytical Lab
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Lessse has carried out PMCP activities as per the proposal. About 1410 sapling planted in the lease area (on waste land, gap plantation is safety zone and on in-active waste dumps).

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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.	

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical by Crushing and Screening.	Grade wise mineral sorting by mechanical method.	
7c	Different grade of mineral sorted out at mines.	No Proposal	Lumps and fines sorted at mine site with various Grade of Fe Below 55% Fe 55-58% Fe 58-60%Fe	Lumps and fines sorting done by crushing and screening.
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			There is no beneficiation of Mineral. Lessee has processed the ore by crushing and and sorted out different size/grade material by screening.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	150MT	Top soil generated has been utilized for plantation.
8b	Concurrent use or storage of topsoil	NIL	Top soil utilized for plantation on dumps	
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 scheme of mining.	

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)	Afforestation proposed.	Plantation observed in the inactive dumps, all along the roads, Safety zone around the mining area.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed plantation 500 nos. extent 0.2247Ha on dumps, green belt & avenue plantation.	Plantation done during the year 2021-22 : 1410 nos.	Plantation work at NW corner of the lease (E685628; N1475527) Observed during the site visit.
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Using tanker.	One water tank of capacity 4000Ltrs observed during the site visit.	No airborne dust, inspection carried out during monsoon.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Asthetic beauty around the mine is good. The lease area surrounded by natural plantation and Eucalyptus trees. In the lease area, except pit area and active dump area, the greenery is good.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to 30/06/2022 ***** A.R. Submitted up to 31/03/2022	AR and MR submitted within stipulated time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Graduate Mining Eng. - 01 Diploma Mining Eng. - 01 Geologist Part time: 01	Rudraiah A. M., Sr. Mines Manager Karunakara M. A., Assistant Mines Manager present during the time of inspection. Geologist (part time) not available at site, lesse informed that he is not well.	Geologist (part time) not available at site, lessee informed that he is not well.
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- 0.564Ha. 4. Area for plant/building etc 0.564Ha. 5. Other purpose 9.419 Ha.	There was a proposal for concurrent backfilling from the waste generated during the float ore mining. Not carried out due to no waste generated during float ore mining. Reclamation/Rehabilitaed area is zero.
9d	Scrutiny of Annual return on afforestation	Within the lease area 1410 No's of plants planted and survival rate is 80%.	Appears to be correct.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NIL	NIL

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Stocks of Iron ore ROM at Mine head: OC working stock 70893.770Mts Dump working Stock: 143216 Mts. Graded Ore stock: Lumps Below 55%Fe : 43479.64 55-58% Fe :28468 Fines Below 55%Fe : 45197.11 55-58% Fe : 4102	Appears to be correct	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value Fines-637.07/- Lumps- 3352.69/- Ex-mine price Lumps=3352.69/- - Fines=637.07/- Production cost per ton= 379.81/-	Royalty & taxes paid not considered for cost of production.	Violation pointed out for rectification of Annual return.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assests 1,12,92,858/-	Appears to be correct.	NIL
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	Appears to be correct.	Machineries given in AR observed at during the inspection.

**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)	14/09/2022		Rule 45(7)(i)	14/09/2022	
Rule 45(7)(i)	14/09/2022				

**Date :**

(DR. Sudhakara T.L)

Indian Bureau of Mines