

**INDIAN BUREAU OF MINES
MINES CONTROL AND CONSERVATION OF MINERAL DIVISION**

MCDR INSPECTION REPORT

Bangalore regional office

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

Mine code : 40KAR19021

- (i) Name of the Inspecting : **J002**) **V.D.JALNAPURKAR**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sri. M.A Karunakara, Asst. Mines Manager.
Official with
Designation
- (iv) Date of Inspection : 23/09/2013
- (v) Prev.inspection date : 12/03/2011

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KAREKURCHI (ML 2028)**
- (b) Category : A Other than Fully Mech.
- (c) Type of Working : Opencast
- (d) Postal address
- State : KARNATAKA
- District : TUMKUR
- Village : KAREKURCHI
- Taluka : TIPTUR
- Post office : RAJATHADRIPURA
- Pin Code :
- FAX No. : 080-23343639
- E-mail : rbrmines@email.com
- Phone : 080-233436/37 944837640
- (e) Police Station : K.B.CROSS
- (f) First opening date : 13/01/1987
2. Address for : SRI.R.BHARAT RAJ,MINE OWNER,,
correspondance NO.862, Dr.MC.MODI ROAD,
BASAVESWARA NAGAR BANGALORE - 560 080.
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 : KARNATAKA LIMPO CEMENT INDUSTRY
 TUMKUR KARNATAKA
 Phone: 080-233436/37
 FAX : 080-23343639

Manager	
Name	: V.M.RAMA MURTHY
Qualification	: F.C.C
Appointment/	: 14/11/2006
Termination date	

6. Date of approval of Mining : 10/10/2006
 Plan/Scheme of Mining

PART - II : TECHNICAL DETAILS/COMMENTS

1. Details about Average employment :

Maximum number of persons employed on any day during the year

Employment category	No.of employment	Av. yearly working days
DIRECT		
Managerial	2	280
Supervisory	4	
Workers	10	
CONTRACT		
Others		

2. Community Development Plan (in and around the mines) : Proposed action and expenditure towards socio-economic development.

Action during the year	Expenditure in Rs. Lakhs for				Remarks
	previous year		current year		
	Proposed	Incurred	Proposed	Incurred	
General					
Water supply	1.13	5.00	6.13	2.00	
Housing	0.00	3.00	3.00	1.00	
Health	2.25	6.50	8.75	2.00	
Sub total	3.38	14.50	17.88	5.00	
Infrastructure					
Public transport	5.50	24.50	30.00	4.50	
Communication	3.75	5.00	8.75	4.00	
Sub total	9.25	29.50	14.50	8.50	
Training	0.75	0.50	0.75	75.00	
Employment	12.00	25.00	37.00	13.00	
Others	40.14	137.00	176.64	116.00	
Total	65.52	209.88	267.64	217.50	

3. Status of compliance of MCDR, 1988, including therewith the rectification of the outstanding violation of rules.

The task force team issued violations 42(1)(b)(i) & 47 to the lessee. The lessee has complied the same vide letterNo. Nil dated 21.05.2011. No violations are noticed during the inspection.

4. A note on the justification in case of suspension of mining operation under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 19888, if recommended.

Not applicable.

5. Scientific Mining

Items	Proposal	Actual work done	Remarks
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A. Exploration (Rule 13)

a.Type of prospecting and exploration i.e. pitting, drilling	: No proposal was there in the mining plan.	47 DTH Drillings	1299.8 mts
b.Total area covered	: No proposal	4 Ha.	

B. Working (Rule 13)

a.Number and size of each pit (LxWxH)	: 300m x 120m x 20m	180m x 100m x 30m	
b.Bench size(LxWxH)length can be defined as regular/irregular	: 300m x 6m x 6m Regular	150m x 6m x 4m Regular	Break down of mine machinery and clearence to be obtained from respective departments
c.Ore to waste ratio pit wise if possible otherwise for mine	: 1:3.2	1:3	Dominance of intercalated waste material.
d.Total area covered under excavation/pits	: 3.6 Ha	1.8 Ha	

C. Waste disposal (Rule 13)

a.Location of dumps	: North West	North East	As exploration was not completed during the proposals.
e.Yearly generation of waste quantity.	: 310200	NIL	
b.Method of dumping whether advancing/retreat	: Advancing	Advancing	
c.Total area covered under waste dump.	: 1.286 Ha	1.50 Ha	More OB is generated.
d.No.and size of each waste dump with No of steps/lift/bench	: 1. 70m x 20m x 10m 2. 135m x 50m x 12m	1. 100m x 50m x 15m 2. 50m x 25m x 8m	Active Inactive Active inactive.

D. Production

b.Year wise production of last five year.	: 2007-08 -143675 2008-09 -140000 2009-10 - 135625 2010-11 - 124250 2011-12 -126875 2012-13 - Not available 2012-13 - Nil	2007-08 - 34145 2008-09 - 53000 2009-10 - 6300 2010-11 - 67474 2011-12 - 3068 (Lumps) 13461.500 Metric tonnes of (Fines) 2012-13 - Nil	
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D. Reserve

a.Reserve position as per latest MP/MS and at the time of inspection.	: 1.38 MILLION TONNES IRON ORE UNDER UNFC 111 .0.03 MILLION	Page 4 of 11
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TONNES MANGANESE
RESERVE POSITION AS ON 01/04/2013

IRON ORE		
Category	Quantity in Tonnes	Grade
Proved	1380000	
Probable		
Possible		
Total	1380000	

<u>PRODUCTION FOR THE PREVIOUS YEAR 2012 - 2013</u>		
Mineral	Production	Unit
IRON ORE	0	MT

6. Conservation of Mineral - both quantitative and qualitative**Beneficiation (Rule 20 and 26)**

Efforts for improving low grade and sub grade mineral. : Not applicable (No beneficiation)

Efforts for improving percentage of recovery of ore. : Not applicable

Mineral Rule 15

Percentage of recovery of ore pitwise w.r.t. ROM and total material : 80% During 2011-12 ROM is 3068.010 Lumps and 13461.500 (Fines) There is no removal of waste during the year 2011-12.

Number of benches in ore and waste. : 1. Iron Ore 6 benches (Ore)
2. In waste 4 Benches in OB.

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : 1,50,000 tonnes

Number and size of each stack : 1. 50m x 10m x 10m
2. 100m x 50m x 10m

Location of stacking. : North East

Separate stacking from waste : It is noticed 2 No. of stacks.

Total area covered for stacking : 1.6 Ha

Exploration data as on 31/03/ 2013

No. of Boreholes	No. of Pits	No. of Trenches
0	0	6

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2012 - 2013**Utilisation of Sub Grade Mineral and Mineral Rejects**

Generated	Utilised	Stacked	(In Ton.)

7. Environment Management - both quantitative and qualitativ

A. Land environment

- a. Landscape. : Moderately elevated hill range a small mound / ridge of hillock with gently sloping.
- b. Aesthetic environment : Disturbed to the extent of pits and dumps stacks
- c. Soil and land use pattern : Lateritic thin soil cover exists while land use pattern consist of degraded over by way of pits dumps/stacks.
- d. Agriculture : There is no agriculture within the lease area. However in the bufferzone the crops include Jowar millet, Sunflower maize along with coconut plantation. The agriculature land exists at a distance of 1.5 kms from the lease area.
- e. Forest(flora and fauna) : The lease area is a non forest land.
- f. Vegetation : Some forest department grown trees are available, which are under the process of cutting making area for mining and allied activities certain minimum plantation (old) was found carried out. The lessee planted 14, 500 plants within the lease area.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : Not existing within the Mining Lease area.

B Water environment.

- a. Surface water : There are no perennial water sources in the lease area. There are no rivulets or nallahs within the lease area..
- b. Ground water : No ground water is encountered in the mine workings. The water table exists at a depth of 40m from the surface at a distance of 2 to 3 kms from the lease area.
- c. Quality of water : No water source in the mine, however village water is found potable.

C. Air environment

- a. Noise : Few machinery is in use and the noise level are within permissile limits. No drilling and blasting is practised.
- b. Air : The SPM levels are found within permissible limits. SPM value is 105 .64 Micro Gram per cu mtr.
- c. Climatic condition : Normal, the maximum and minimum temperatures are in the range of 38 to 19c respectively with an average rain fall of 600 mm.

D. Socio economic environment

- a. Social and demographic profile. : The local villagers are dependent on coconut plantation and other dry agricultures activities, besides some are employed in the mines.
- b. Recommending health and safety. : Nothing specific, except providing protective safety appliances by the management to the workers.
- c. Human settlement :
- d. Recreational facility. :

7.1 Comments on the steps taken by the lessee towards maintaining environment and monitoring of environmental parameters to ensure the qualitative improvement in the environment and ecology.

<u>Water Management</u>					
Season	Station type	Station name	Parameter	Value	
				Actual	Excess

<u>Air data for excess parameters</u>					
Season	Station name	Type of area	Parameter	Value	
				Actual	Excess

<u>PLANTATION DURING THE PREVIOUS YEAR</u>						<u>2012 - 2013</u>		Area in Hect.	
Within lease area			Outside lease area						
Area	Trees planted	Survival rate	Area	Trees planted	Survival rate				
.5	800	80	.2	200	80				

<u>TOP SOIL MANAGEMENT</u>	
Quantity as on 31/03/2013	

8. Scrutiny of annual returns on cost of production, reserve, production, pit mouth value, stock, land use pattern and fixed assets.

Annual return for 2012 -13 has been checked during the inspection and found to be in order.

Cost of production Not applicable

Proved Reserves of Iron Ore 15.55 lack MT

(Geological as well as mineable)

Proved Reserves of Manganese Ore

(Geological as well as mineable are 1.38 MT. Production of Iron Ore is 6300 MT.

Pit Mouth Value Nil

(Closing stock 113663.73 (fines) and 81274.97 (Lumps)

PART - III : PERFORMANCE OF MINE OWNER
(In case of lease expiring within 2 years - as per guidelines)

a. Compliance of terms and conditions of lease deed.

Not applicable

b. Compliance of the provisions of MCDR, 88 and advise given.

Not applicable

c. Conduct with regard to adoption of safety measures and forest wealth, ecology and environment in the mining lease area.

Not applicable

d. Whether the mine owner has carried out exploration and exploitation on the basis on surface mapping, pitting, trenching and core drilling taking in to consideration the mode of occurrences of mineral deposit.

Not applicable

e. Whether production from mining area is commensurate with the reserves and the long term progress of utilization of mineral.

Not applicable

f. Whether adequate investment has been made by the lessee on the development of mine on mining machinery, operational and administrative building, residential accommodation for the employees.

Not applicable

g. Measures taken by the lessee for protection of environment and ecology.

Not applicable

h. In case leases where the mineralisation tends to exhaust within the present period, the status of closing operation in phases and the special issues including human issues to be addressed at the time of closing of mine.

Not applicable

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

Indian Bureau of Mines (any issue related to CGPB, SGPB, Assistance, Consultancy, Annual Programme and studies, etc.)

NIL

State Government (Illegal mining, mining dispute, infrastructure, Mineral based industry, Mineral policy, etc.)

NIL

The Central Government (Infrastructure, Development, Mineral policy and Legislation, Mineral based industry, etc.)

NIL

Date :

(V.D.JALNAPURKAR)

Indian Bureau of Mines