

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

MCDR INSPECTION REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/403/BNG

Mine code : 30KAR03113

- (i) Name of the Inspecting : **R010**) **B.RAM MOHAN**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : MR.BHARATHI DASAN, MINES MANAGER.
Official with
Designation
- (iv) Date of Inspection : 06/01/2014
- (v) Prev.inspection date : 15/03/2011

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **DONIMALAI(53.20 H)**
- (b) Category : A Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
- State : KARNATAKA
- District : BELLARY
- Village : TARANAGAR
- Taluka : SANDUR
- Post office : TARANAGAR
- Pin Code :
- FAX No. : 08395- 260110
- E-mail : branchoffice@nadeemmineral:
- Phone : 08395- 260110
- (e) Police Station : SANDUR
- (f) First opening date : 19/07/2006
2. Address for : NADEEM MINERALS
correspondance ALFA MANOR, NO 227, 1st FLOOR, GREENGLEN LAYOUT,
Off: OUTER RING RD, BELLANDUR, VARTUR HOBLI BNG-
3. (a) Lease Number : KAR0996
- (b) Lease area : 53.2
- (c) Period of lease : 20
- (d) Date of Expiry : 18/07/2026
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : NADEEM MINERALS.,
 BELLARY KARNATAKA
 Phone:
 FAX :

Owner : FAISAL SHAREEF,
 BANGLORE URBAN KARNATAKA
 Phone: 9980944424, 08
 FAX :

Manager Name : BHARATHI DASAN Qualification : DIPLOMA IN MINING , MINES MANAGER FCC Appointment/ : 06/12/2012 Termination date
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6. Date of approval of Mining : 24/04/2007
 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	5	300
Workers	32	300
Supervisory	27	300
CONTRACT		
Workers	124	300

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					
Health		4.35			
Sub total		4.35			
Infrastructure					
Roads		0.50	0.75		
Sub total		0.50	4.35		
Others		1.84	1.00		
Recreation		1.00	1.25		
Total		3.34	7.35		

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

During the last MCDR inspection on 15/03/2011 no violations were pointed out . During the current inspection violation of Rule 13(1) of MCDR 1988 was observed & pointed out with regards to deviation in afforestation, garland drain, non maintenance of environmental monitoring register.

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, 1988, if recommended.

No such recommendation is being made either under Rule 13(2) or 56 of MCDR 1988.

5. Scientific Mining

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

a.Type of prospecting : NIL and exploration i.e. pitting, drilling		20 RC 768 M	Proposal of 19 RC in 14-15 and 15-16
b.Total area covered : NIL		0.8 ha	-

B. Working (Rule 13)

a.Number and size of : Sec 1-3 - 240 x 40 each pit (LxWxH) x24	Sec 1-3 - 250 x 60 x 24		
Sec 4-8 - 470 x 55	Sec 4-8 - 360 x 60 x11		
Sec 10 -15 - 240x50 x18	Sec 10 -15 - 200x60 x19		
b.Bench : Regular size(LxWxH)length can be defined as regular/irregular	Regular 240 x 12 x 7.5		
c.Ore to waste ratio : 1: 0.34 pit wise if possible otherwise for mine	1:0.59		During 12-13
d.Total area covered : 4.74 ha under excavation/pits	4.86 ha		

C. Waste disposal (Rule 13)

a.Location of dumps : Eastern side	Eastern side		
e.Yearly generation : 1.4 lakh of waste quantity. tonnes(2012-13)	40725 tonnes		
b.Method of dumping : Retreat whether advancing/retreat	Retreat		
c.Total area covered : 1.75 ha under waste dump.	1.68 ha		
d.No.and size of each : 2 Steps waste dump with No of 350 m x 50 x 30 steps/lift/bench	4 steps 210 x 80 x 30		

D. Production

b.Year wise : 2008-09- 10,26,795 production of last five year. tonnes	2008-09- 5,03,330 tonnes	2011-12 - NIL
2009-10-15,28,310	2009-10- 2,39,630 tonnes	(Due to Ban of mining operation in Bellary, ctd & tmk dists by Hon'ble supreme court.)
2010-11- 20,01,650	2010-11- 30,928 tonnes	
2011-12- 20,00,000	2011-12- NIL	
2012-13- 4,10,000	2012-13- 68,000 tonnes	
tonnes		

D. Reserve

a.Reserve position as : 5.86 MILLION per latest MP/MS and at the time of TONNES	5.802 MILLION TONNES as on 01/04/2013	
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inspection.

RESERVE POSITION AS ON 01/04/2013

IRON ORE		
Category	Quantity in Tonnes	Grade
Proved	5802000	45to 62%
Probable		
Possible	7310000	45 to 62%
Total	13112000	

PRODUCTION FOR THE PREVIOUS YEAR 2012 - 2013

Mineral	Production	Unit
IRON ORE	68000	TON

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

Efforts for improving low grade and sub grade mineral. : No beneficiation only crushing and screening.

Efforts for improving percentage of recovery of ore. : No beneficiation only crushing and screening.

Mineral Rule 15

Percentage of recovery of ore pitwise w.r.t. ROM and total material : 95%

Number of benches in ore and waste. : Ore - 4 benches.
Waste - 3 benches.

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : No generation of subgrade mineral

Number and size of each stack : NA

Location of stacking. : NA

Separate stacking from waste : NIL

Total area covered for stacking : NA

Exploration data as on 31/03/ 2013

No. of Boreholes	No. of Pits	No. of Trenches
50	0	0
20		

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2012 - 2013

Overburden/waste removed (in m3) :	20000
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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. : Natural landscape is obliterated. However, it is being maintained by forming systematic benches.
- b. Aesthetic environment : Found disturbed to the extent of pits and dumps.
- c. Soil and land use pattern : No soil cover exists LUP consists of pits, dump, etc to an extent of 28 ha.
- d. Agriculture : No agriculture in & around the lease area.
- e. Forest(flora and fauna) : In forest land existance of wild bore, & cheetah, peacock & rabbits etc have been reported. Flora found disturbed to the extent of area degraded.
- f. Vegetation : Afforestation carried out on dead dumps, along the roads etc. The cumulative area covered by plantation within ML is 4.5 ha & outside ML is 2.25 ha.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : No such public building in the area.

B Water environment.

- a. Surface water : No perennial surface water streams available.
- b. Ground water : Ground water present below 525m RL the deepest workings are at 822m RL.
- c. Quality of water : Water is potable. Water quality has been monitored in the villages and the data of winter season of 2013 has been submitted. PH value is in the range of 7.59 to 7.94, TDS ranging 426 to 598 in buffer zone.

C. Air environment

- a. Noise : Noise survey undertaken in Core & Buffer zone area. The values are within permissible limits. In core zone 58.3 to 82.3 db(A), Buffer zone 43.8 to 57.3 db(A).
- b. Air : Aairsurvey carried out in DEC 2013 and results found within permissible limits. The SPM value in core zone ranging 72 to 86 microgrammes/cum. In Buffer zone 58 to 62 microgrammes/cum.
- c. Climatic condition : Normal climate, the max in summer is 43 deg C and min in winter is 18 deg C. Annual rainfall is about 515mm.

D. Socio economic environment

- a. Social and demographic profile. : Some local people are employed. No colony has come up in the area. This has not altered demographic profile.
- b. Recommending health and safety. : One doctor has been posted at Sandur, who treats vilagers and workers as well Cost of medicins is reimbursed. One Ambulance is kept at Sandur and it is provided to villagers and workers. Work is carried out by following safety norms.
- c. Human settlement : There is no displacement of human settlement nor new settlement has come up
- d. Recreational facility. : Not available at site except at Sandur town

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.

Season	Station type	Station name	Parameter	<u>Water Management</u>	
				Value	
				Actual	Excess
Winter	Colony	TARANAGAR VILLAGE	Magnesium (as Mg)	67	37
Winter	Colony	TARANAGAR VILLAGE	TDS	598	98
Winter	Colony	TARANAGAR VILLAGE	Calcium (as Ca)	86	11

Season	Station name	Type of area	Parameter	<u>Air data for excess parameters</u>	
				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				
1	1350	70							

<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.

The annual return for the 2012-13 has been scrutinised and the following observations were made:

Opening stock is - 159151 tonnes.

Production - 68000 tonnes.

PMV for Lumps - 60--62%fe - 2567.62/metric tonne

Fines- 55--58%fe - 1740/metric tonne . .

Closing stock - 71073.66 tonnes.

Cost of operation is - Rs 983 /tonne including tax.

Despatches - 156027.54 tonnes.

Mineral rejects -NIL.

Land use pattern - Forest area degraded by pits, dumps, road etc.

Reserves - 5467 Million tonnes (proved).

Fixed assets - 1.2 crores.

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 as lease expiry is on 18/07/2026.

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

NIL.

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

NIL.

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.

NIL.

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

NIL.

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.

NIL.

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

NIL.

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.

NIL.

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 :

(B.RAM MOHAN)

Indian Bureau of Mines