

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

MCDR INSPECTION REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/150/BNG

Mine code : 30KAR03017

- (i) Name of the Inspecting : **R010**) **B.RAM MOHAN**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : MR.K.MADHUSUDHANA (VICE PRESIDENT MNES).
Official with
Designation
- (iv) Date of Inspection : 19/03/2014
- (v) Prev.inspection date : 07/12/2007

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **VYASANAKERE**
- (b) Category : A Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
- State : KARNATAKA
- District : BELLARY
- Village : VYASANKERI
- Taluka : HOSPET
- Post office : VYASANKERI
- Pin Code : 583201
- FAX No. : 08394-232333, 244122
- E-mail : msplimited@vsnl.com
- Phone : 244122
- (e) Police Station :
- (f) First opening date : 01/01/1962
2. Address for : SRI.RAHUL.N.BALDOTA MSPL LTD, N.C.COLONY
correspondance CO-OPERATIVE COLONY,HOSPET,
BELLARY-583203
3. (a) Lease Number : KAR0196
- (b) Lease area : 858
- (c) Period of lease : 20
- (d) Date of Expiry : 13/11/2002
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : MSPL LTD
 CO-OPERATIVE COLONY,
 HOSPET, BELLARY, BELLARY
 KARNATAKA
 Phone: 28402, 28502
 FAX : 08394-24537, 25052

Owner : MSPL LTD
 CO-OPERATIVE CLONY, HOSPET,
 BELLARY-583203 BELLARY
 KARNATAKA
 Phone:
 FAX :

Agent : MEDA VENKATAIAH
 BELLARY KARNATAKA
 Phone:
 FAX :

Mining Engineer

Name : K.MADHUSUDAN, Full Time
 Qualification : AMIE.MINING
 Appointment/ :
 Termination date

Geologist

Name : S.SRINIVAS, Full Time
 Qualification : M.Sc GEOLOGY
 Appointment/ : 19/02/2001
 Termination date

Manager

Name : P.N.KRISHNA MURTHY
 Qualification :
 Appointment/ : 01/11/1996
 Termination date

6. Date of approval of Mining : 11/01/2013
 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		
Supervisory	610	295
Managerial	22	295

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					
Infrastructure					
Sub total					
Sub total					
Total					

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

The previous MCDR inspection was undertaken on 07.12.2007 and no violations were observed. During current inspection violation of rule 13(1) regarding deviation in exploration, settling tank etc., Rule 21 and Rule 48 were pointed out.

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 : 3 and exploration i.e. pitting, drilling		2 Ha	Violation of 13(1) has been pointed out .
b.Total area covered : -		-	

B. Working (Rule 13)

a.Number and size of : 300 x 230 x 81 each pit (LxWxH)		150 x 220 x34
b.Bench : 280 x 10 x 9 size(LxWxH)length can be defined as regular/irregular		150 x 15 x 9
c.Ore to waste ratio : 1:0.95 pit wise if possible otherwise for mine		1:0.9
d.Total area covered : 6.9 ha under excavation/pits		6.9 ha

C. Waste disposal (Rule 13)

a.Location of dumps : D-2 - Western side of A Block D-3 - Western side of North Block.		D-2 Western side of A block D-3 Western side of North Block
e.Yearly generation : 863612 tonnes of waste quantity.		770625 tonnes
b.Method of dumping : Retreat whether advancing/retreat		Retreat
c.Total area covered : 6.91 ha under waste dump.		3.57 Ha
d.No.and size of each : D2 - 200 x 100 x waste dump with No of : 20(2 ha). steps/lift/bench : D3 - 356 x 138 x 20 (4.91 ha).		D2 - 210 x 90 x 10(1.89 ha). D3 - 240 x 70 x 10 (1.68 ha).

D. Production

b.Year wise : 2007-08- 26.54 production of last : lakh tonnes five year. : 2008-09 - 25.47 lakh.tonnes 2009-10- 25.03 lakh.tonnes 2010-11 -25.72 lakh.tonnes 2011-12-25.95 lakh.tonnes 2012-13-4.5 lakh.tonnes		2007-08- 21.68 lakh tonnes 2008-09 - 15.96 lakh.tonnes 2009-10- 5.78 lakh.tonnes 2010-11 -2.28 lakh.tonnes 2011-12- 0.3 lakh.tonnes 2012-13- Nil (Due to ban of mining operation by Hon'ble supreme court)
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D. Reserve

a.Reserve position as : 17.419 per latest MP/MS and at the time of		
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inspection.

RESERVE POSITION AS ON 01/04/2013

IRON ORE		
Category	Quantity in Tonnes	Grade
Proved	17231000	67%
Probable	2024000	65%
Possible		
Total	19255000	

PRODUCTION FOR THE PREVIOUS YEAR 2012 - 2013

Mineral	Production	Unit
IRON ORE	0	TON

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

Efforts for improving low grade and sub grade mineral. : Jigging plant has been erected to upgrade low grade minerals, which is under commissioning stage.

Efforts for improving percentage of recovery of ore. : Jigging plant has been erected to upgrade low grade minerals, which is under commissioning stage.

Mineral Rule 15

Percentage of recovery of ore : 100 %
pitwise w.r.t. ROM and total material

Number of benches in ore and waste. : Ore - 8,
Waste - 10.

Sub/grd mineral/fines (Rule16)

Qty of yearly generation and total qty available during inspection with grade : Nil

Number and size of each stack : NIL

Location of stacking. : NIL

Separate stacking from waste : NIL

Total area covered for stacking : NIL

Exploration data as on 31/03/ 2013

No. of Boreholes	No. of Pits	No. of Trenches
10	4	0

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. : The highest altitude in the Leasehold area is 886 m RL. In the eastern side of the area two narrow hill ranges are seperated by narrow rugged valley. The excavation has altered the land scape of the area.
- b. Aesthetic environment : The aesthetic environment of the area is found disturbed to the extent of mining. However in other process afforestation carried out is giving a better aesthetic view.
- c. Soil and land use pattern : Top soil exclusively is not available. The land use pattern is as follows
Towards mining - 91.32 ha
Towards waste dump - 56.90 ha.
Towards Afforestation - 158.67 ha
- d. Agriculture : No agriculture is present in the lease area.
- e. Forest(flora and fauna) : Whole lease area falls in forest. The flora got disturbed due to mining, which however has been compensated by carrying out afforestation fauna to some extent moved away due to Mining activities.
- f. Vegetation : Since 1970 afforestation activities are in place & till now 1.83 million trees have been planted both within & outside ML area.
- h. Public building, places and monuments (protected, historical), placec of worship and places of tourist : No public building or monument is present.

B Water environment.

- a. Surface water : No perenial surface streams exist. During monsoon 2013, the total dissolved solids was 130 & 216 mg/l in two streams, well within limits(1500).
- b. Ground water : The mine is located on the hilly terrain. The workings are on the top & slope of the hill . As such there is no ground water source within the ML area.
- c. Quality of water : The water samples are regularly analysed for the quality & the values are below the prescribed norms. The water analysis during post monsoon 2013 was undertaken in borewells of 3 villages. The turbidity was varying from 0.2 to 0.6 NTU against the permissible value of 5 NTU . The total coliform was absent.

C. Air environment

- a. Noise : Noise levels are regularly monitored at various locations in the mine & the values are within the stipulated limit of 85 dB, which was ranging from 40.3 to 68.5 db(A) in post monsoon 2013.
- b. Air : Air samples are regularly analysed for SPM, RPM, SO2 & NOx as per the stipulated norms by the KSPCB.(NORMS 24 hourly- SPM-100 PPM, RPM - 60 PPM, NOx - 80 PPM, SO2 - 80 PPM). During post monson 2013, in core zone the RPM 22.5 microns was in the range of 16-21, while SPM was 30 to 52 microgrames/cu M .
- c. Climatic condition : The climate of hospet is known for hot summer & very dry weather for the major part of the year, & the

temperature varies from 22 C to 43 C. The Rainfall recorded for the year 2013-14 is around 700mm and relative humidity ranges from 20 to 70 %.

D. Socio economic environment

- a. Social and demographic profile. : Within 10 km radius from mining lease area, there are 26 villages including 5 village of Andhra Pradesh. The demographic profile of the villages under the buffer zone of this mine lease, & the major occupation of the population is agriculture.
- b. Recommending health and safety. : Nil, as all the employees have been provided with protective safety appliances, company has its own dispensary.
- c. Human settlement : No human settlement is found the Mining lease area.
- d. Recreational facility. : A number of recretaion children parks have been developed by the company in the villages, & in Hospet.

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.

<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 - 48025.56 tonnes.

Production - NIL.

PMV is 3587 for lumps (62-65% Fe), fines- 2821 (62-65 % Fe).

Closing stock - 48025.56 tonnes.

Cost of operation is - Nil

Despatches - 36,457 (Procured Ore)

Mineral rejects -NIL.

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

Reserves - 17.186(Proved & Probable) Million tonnes .

Fixed assets - 65.48 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.

NA

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

NA

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

NA

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.

NA

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

NA

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.

NA

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

NA

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.

NA

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