

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

MCDR INSPECTION REPORT

Bangalore regional office

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

Mine code : 30KAR03017

- (i) Name of the Inspecting : **256**) **PUKHRAJ NENIVAL**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : MR.K.MADHUSUDHANA(VICE PRESIDENT MNES)
Official with
Designation
- (iv) Date of Inspection : 04/01/2016
- (v) Prev.inspection date : 08/01/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **VYASANKERE**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : BELLARY
Village : VYASANKERI
Taluka : HOSPET
Post office : VYASANKERI
Pin Code : 583201
FAX No. : 08394-232333, 244122
E-mail : mspllimited@vsnl.com
Phone : 244122
- (f) Police Station :
- (g) First opening date : 01/01/1962
- (h) Weekly day of rest : SUN
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.Shiv Kumar,Full Time
 Qualification : M.Sc GEOLOGY
 Appointment/ : 19/02/2001
 Termination date

Manager
 Name : P.Venkeswara Rao
 Qualification : Dip.and 1st class
 Appointment/ : 01/11/1996
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	06/08/1990
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	04/04/1996
	:	Fresh under rule 22 MCR1960	10/03/1997
	:	Renewal under rule 22 MCR1960	03/09/2002
	:	Modif.of approved Mining Plan	13/08/2004
	:	Modif.of approved Mining Plan	25/04/2005
	:	Mining Scheme rule 12 MCDR1988	30/04/2007
	:	Mining Scheme rule 12 MCDR1988	11/01/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Drilling -15 No.s -1650 Mts (2012-13 to 2016-17)	Drilling -25 No.s -2450 Mts (2012-13 to 2014-15)	Exploration is carried out during 15.03.2015 to 03.04.2015 and completed the five years of exploration programme.
1b	Exploration over lease area for geological axis 1 or 2	Mineralised area is 15 Ha for G1 Level.	Mineralised area is 15 Ha for G1 Level.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Rs. 41,00,000 /-(2012-13 to 2016-17)	M/s. Chaithanya geo lynx/Rock tech enterprises was engaged to conduct drilling. Rs. 79,18,400 /- (2012-13 to 2014-15)	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	-
1e	Balance reserve as on 01/04/20	36.823 MMT as on 01.04.2015	35.913 MMT as on 01.01.2016	-
1f	General remarks of inspecting officers on geology, exploration etc	-	-	Satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North , A & B block	North , A block	it is informed the development work in B block will be done in Jan- Mar 2016.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	-	-	No top soil. There is no OB and ore in all benches.
2c	Stripping ratio or ore to OB ratio	1 : 2.73	1:2.40	Upto Dec,2015.

2d	Quantity of topsoil generation in m3	-	-	-
2e	Quantity of overburden generation in m3	710525	634960	Upto Dec,2015.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	North & A block : N1681800 to N1682300 E649500 to 650000 RL 764 to 692 B block : N1681200 to N1681600 E650200 to E650600 737 to 665	North & A block : N1681800 to N1682400 E649400 to 650000 RL 764 to 678. B block : Not worked.	No production in B block. During Jan to Mar - 2016 it is also proposed to work in B block
3b	Quantity of ROM mineral production proposed	910000 tons	910000 tons	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	-	-	-
3e	Grade of mineral rejects generation and threshold value declared.	-	-	-
3f	Quantity of sub grade mineral generation.	-	-	-
3g	Grade of sub grade mineral generation	-	-	-

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No	No	
3j	Provision of drilling and blasting in mineral benches	Spacing:2 to 3.5m Burden:2.5 to 3 m Depth :9 m (10 to 15 % sub grade drilling)	Spacing:2 to 3.5m Burden:2.5 to 3 m Depth :9 m (10 to 15 % sub grade drilling)	-
3k	Provision of mining machineries in mineral benches	Yes	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height : 9 m Width : 9 m to 10m	Height : 9 m Width : 9 m to 10m	-
3m	Total area covered under excavation/pits	North & A block : 7.80 Ha B block :5.20 Ha	North & A block : 15.00 Ha B block : Nil	No production in B block. During Jan to Mar - 2016 it is also proposed to work in B block
3n	Ore to OB ratio for the pit/mine during the year.	M.ore : 260010 1 : 2.73	M.ore : 222817 47200 270017 1:2.40	F.ore : Total :
3o	Total area put in use under different heads at the end of year	Mining area : 89.315 Ha OB dumps : 74.132 Ha Afforestation :130.054 Ha	Mining area : 89.315 Ha OB dumps : 74.132 Ha Afforestation :130.054 Ha	-

3p	Production of ROM mineral during the last five year period as applicable	2011-12 :2595000 2012-13 : 450000 2013-14 : 910000 2014-15 : 910000 2015-16 : 910000 (Up to Dec)	2011-12 : 3040 2012-13 : 0 2013-14 : 910000 2014-15 : 910000 2015-16 : 910000 (Up to Dec)	Mine has resumed mining operations during 2013-14.
3q	General remarks of inspecting officers on method of mining etc.	-	-	Satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Dump No 2 & 3	Dump No 2 & 3	No top soil & Mineral rejects
4b	Location of topsoil, OB and mineral reject dumps	Dump No 2 (E 649000- E 649600 To N 1681800-N 1681200) Dump No 3 (E 648400- E 649200 To N 1682000- N 1682600)	Dump No 2 (E 649000- E 649600 To N 1681800-N 1681200) Dump No 3 (E 648400- E 649200 To N 1682000- N 1682600)	No top soil & Mineral rejects
4c	Number of dumps within lease area and outside of lease area	Within Lease area : 4 Nos Out side the lease area : 1 No	Within Lease area : 4 Nos Out side the lease area : 1 No	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side UPL.	Out side UPL.	-
4e	Number of active and alive dumps.	Active dumps : 2 No.s (D2 & D3)	Active dumps : 2 No.s (D2 & D3)	

4f	Number of dead dumps.	Inactive dumps : 2 No.s Out side lease inactive dump : 1 No	Inactive dumps : 2 No.s Out side lease inactive dump : 1 No	-
4g	Number of dumps established.	3 No.s	3 No.s	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	-
4i	Length of Retaining wall or garland drain all along dumps	Retaining Wall :100 m Garland drain :100 m	Retaining Wall :100 m Garland drain :100 m	-
4j	Number of settling ponds	-	-	-
4k	Specific comments of inspecting officer on waste dump management	-	-	Satisfactory.

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.	-	-	-
5b	Area under backfilling of mined out area	-	-	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	-	-	-
5d	Total area fully reclaimed and rehabilitated	-	-	-

5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	-
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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).	R & R works carried out as per approved scheme of mining.	23E(2) report submitted on 10.11.2015	-
6b	Area available for rehabilitation (ha) .	-	-	-
6c	afforestation done (ha).	-	-	-
6d	No. of saplings planted during the year	-	-	-
6e	Cumulative no .of plants	-	-	-
6f	Any other method of rehabilitation	-	-	-
6g	Cost incurred on watch and care during the year	-	-	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	-	-	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	-	-	-

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	-	-	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	-	-	-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	-	-	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	-	-	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	-	-	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	-	-	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Ambient air Quality -4 Stns Water quality - 3 Stns Noise Levels - 3 stns	Ambient air Quality -4 Stns Water quality - 3 Stns Noise Levels - 3 stns	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Working Satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Massive ore : 0.910 MMT - 62 to 66 %Fe	Massive ore : 0.791 MMT - 62 to 66 % Fe Friable ore : 0.118 MMT - 58 to 60% Fe	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	Lumps : +64% Fe Fines : +65 %Fe	Lumps : +64% Fe Fines : +65 %Fe	
7d	Any beneficiation process at mines .	No	No	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	Working Satisfactory.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	-	-	No top soil generation
8b	Concurrent use or storage of topsoil	-	-	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Dump No 2 & 3	Dump No 2 & 3	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	-	-	-

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	-	-	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	-	Gap Plantation
8g	Survival rate	80%	80%	-
8h	Water sprinkling on roads to control airborne dust	-	Installed sprinklers in the main Haulage roads & water tankers in Mine pit.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Working Satisfactory. The boundary pillars are intact with requisite details.

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 Nov - 2015 A.R submitted for 2014-15.	-	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager : P.Venkateshwar rao Mining Engineer : K.Madhusudhana Geologist : S.Shivakumar	-	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining area : 89.315 Ha OB dumps : 74.132 Ha Afforestation : 130.054 Ha	-	-

9d	Scrutiny of Annual return on afforestation	35000 No.s Cumulative : 19 Lakhs No.s Survival rate : 85 %	-	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM : 910000 Lumps : 308818.41 Fines : 601181.59	-	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value : Ex Mine price: Production cost: 3692.14/ton	-	-
9h	Scrutiny of Annual return on fixed assets	Fixed asset : 63.38 Cr	-	-
9k	Scrutiny of Annual return on mining machineries	Hydraulic Excavator : 7 no's Wheel Loaders : 10 no's Dumpers (30 tons) : 47 no's	-	-

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

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(PUKHRAJ NENIVAL)

Indian Bureau of Mines