

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

Inspection under SDF for star rating of mines REPORT

Bangalore regional office

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

Mine code : 30KAR03017

- (i) Name of the Inspecting : **M003**) **G C MEENA**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : S/ Shri. Madhusudhan, Sr. VP.& Mines Manager.
Official with
Designation
- (iv) Date of Inspection : 09/10/2018
- (v) Prev.inspection date : 10/01/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **VYASANKERE**
- (b) **Registration NO.** : **IBM/199/2011**
- (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
- E-mail : rahulbaldota@mspllimited.co
- Phone : (08394) 232003 08394232002
- (f) **Police Station** : Hospet
- (g) **First opening date** : 01/11/1962
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/s MSPL Limited
BALDOTA ENCLAVE, ABHERAJ BALDOTA RD,
HOSPET, BELLARY-583201
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
 RAMGAD MINERALS & MINING(P)
 LTD Baldota Enclave,
 Abheraj Baldota Road,
 Hospet BELLARY KARNATAKA
 Phone: 08394-232002
 FAX : 08394-232333

Mining Engineer

Name : K.MADHUSUDAN,Full Time
 Qualification : AMIE.MINING
 Appointment/ : 01/01/2015
 Termination date

Mining Engineer

Name : DOMNIC SAVIO,Full Time
 Qualification : BE 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/ : 01/09/2012
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Existing rule 11 MCDR1988	06/08/1990
		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
		Modif.approved Mining Scheme	22/06/2016
		MP review under 17(1) MCR 2016	04/11/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	NA
1b	Exploration over lease area for geological axis 1 or 2	Mineralised area is 15ha in G 1	Mineralised area is 15ha in G 1	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	NA
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	NA
1e	Balance reserve as on 01/04/20	34.558	32.758	
1f	General remarks of inspecting officers on geology, exploration etc	None	None	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North block A & B	North block A & B	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, separate benches in o/b & mineralak proposed.	Yes, separate benches in o/b & mineral as proposed maintained. But during inspection it was observed that in North A block in working pit the width of benches are less than approved proposals and as well the hight of bench near pit floor is more than approved proposals in valid document.	The violation of rule 11(1) of MCDR 2017 has been pointed out for width & hight of benches.
2c	Stripping ratio or ore to OB ratio	1:1.99	1:1.99	
2d	Quantity of topsoil generation in m3	None	NA	Top soil not generated.

2e	Quantity of overburden generation in m3	1037210 m3	1037225 m3	No deviation
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed scintifically.	Yes, separate benches in o/b & minerak as proposed maintained. But during inspection it was observed that in North A block in working pit the width of benches are less than approved proposals and as well the hight of bench near pit floor is more than approved proposals in valid document.	The violation of rule 11(1) of MCDR 2017 will be pointed out for width & hight of benches.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Three pits.	Three pits only.	
3b	Quantity of ROM mineral production proposed	1.8MMT	1.8MMT	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Not proposed	Not generated.	
3e	Grade of mineral rejects generation and threshold value declared.	Not Applicable	Nil	
3f	Quantity of sub grade mineral generation.	Not Proposed	Nil	
3g	Grade of sub grade mineral generation	Not Applicable	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized.	Mechanized.	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Yes propsoed.	Yes propsoed.
3k	Provision of mining machineries in mineral benches	yes.	yes used machineries as per the proposals.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes 9m proposed	Done 9m as proposed which is suitable due to compact rock in both the starta but the hight of lower bench near pit floor was observed more than 9m..
3m	Total area covered under excavation/pits	86.655 ha	86.655 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:1.99	1:1.99
3o	Total area put in use under different heads at the end of year	Mining=86.655 ha, Dump active=34.54 ha, Inactive dump=34.842Ha, BHQ Dump =7.41ha, Mineral storage=17.741 ha, 5.925ha= infrastructure, Road=7.928ha, plant=2.704 ha & 8.599 ha=others.	Yes, Mining=86.655 ha, Dump active=34.54 ha, Inactive dump=34.842Ha, BHQ Dump =7.41ha, Mineral storage=17.741 ha, 5.925ha= infrastructure, Road=7.928ha, plant=2.704 ha & 8.599 ha=others.
3p	Production of ROM mineral during the last five year period as applicable	2013-14=9.10LT, 2014-15=9.10LT, 2015-16=9.10LT, 2016-17=1.8MMT., 2017-18=1800328	2013-14=9.10LT, 2014-15=9.10LT, 2015-16=9.10LT, & 2016-17=1.355MMT., 2017-18=1800000.

3q General remarks proposed for working systematically of inspecting systematic operation. with some deviation as officers on method of mining operation. mentioned earlier. etc.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Two nos.(TOP SOIL NOT GENERATED)	two nos. only.	
4b	Location of topsoil, OB and mineral reject dumps	On the western side slope of the ML area.	Dumping is presently done on the western side slope of the ML area in Active dump..	
4c	Number of dumps within lease area and outside of lease area	Within the ML is 5 & Outside is one.	Within the ML is 5 & Outside is one.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed Outside the UPL	yes outside the UPL is maintained as the approved document.	
4e	Number of active and alive dumps.	3	3	
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.	proposed.	yes ,retaining wall and garland drain prepared near dumps..	
4i	Length of Retaining wall or garland drain all along dumps	40m retaining wall & 140m. garland drain.	yes prepared 40m retaining wall & 140m. garland drain.	
4j	Number of settling ponds	Not proposed	yes it is constructed earlier wherever applicable.	
4k	Specific comments of inspecting officer on waste dump management	Dumping are proposed in the slope area.	yes existing topography reveals undulating, accordingly lessee undertaken the dumping .	

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.	Not proposed.	Nil	Yes in the past, about 130.054ha. float area got mined out and undertaken back filling & plantations.
5b	Area under backfilling of mined out area	Nil	carried out in the past & reported in the annual return as reclamation & rehabilitations.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals.	present working are within the degraded land & also top soil not present.	
5d	Total area fully reclaimed and rehabilitated	130.054 ha	130.054 ha (130.054ha. float area got mined out and undertaken back filling & plantations.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Back filling present in the ML area.	Yes in the past, about 130.054ha. float area got mined out and undertaken back filling & plantations.	

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).	To be submitted	Not submitted as required under rule 26(2) of MCDR 2017.	Violation of rule 26(2) of MCDR 2017 has been pointed out.
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	During 2017-18 only gap plantation proposed.	Gap plantation done as proposed.	
6d	No. of saplings planted during the year	20000 nos	20000 nos	
6e	Cumulative no .of plants	present	19.4lakhs nos.	
6f	Any other method of rehabilitation	proposed	throught plantations only.	

6g	Cost incurred on watch and care during the year	19.68 lakhs.	19.68 lakhs.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Backfilling not proposed as no matured area available.	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals.	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposals.	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals.	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposals.	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposals.	NA
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	present.	Total exhausted area covered under 130.054 ha.

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	plantations method.	yes plantations carried wherevr land permittted.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed for season wise.	Carried out environmental monitoring season wise.	All parameters are withn the limit. PMCP activities are also undertaken as per proposals.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	proposed in the approved document.	Lessee carries out as per the proposals.	satisfactory

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	1.80MMT(62-66%Fe.)	1.80MMT(62-66%Fe.)	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Mechanized	
7c	Different grade of mineral sorted out at mines.	Proposed	Lumps & fines +64%Fe to +65%Fe of fines.	
7d	Any beneficiation process at mines	yes,Dry process only	No wet process, only dry.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	proposals made for scientific & systematic mining.	lessee carried out systematically, with respect to conservation and beneficiation of mineral.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposals.	NA	
8b	Concurrent use or storage of topsoil	No proposals.	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed.	Yes work is carried out as per the proposals.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NO proposls.	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	now no proposals for such work.	Float ore exhausted area about 130.054ha. in the past backfilled & plantation done over it.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes proposed.	Yes undertaken in the past & also in the present period.	
8g	Survival rate	82%	80%	
8h	Water sprinkling on roads to control airborne dust	Proposed water sprinkling.	yes done.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	yes proposed.	This is being followed in the mine.	yes it is done, still need to improve in the mine & officie premises.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Submitted MR & Reported Correctly. AR for the year 2017-18 as per the format.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Submitted AR for the year 2017-18 as per the format.	The details furnished Correctly.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The details furnished Correctly.	The details furnished Correctly.
9d	Scrutiny of Annual return on afforestation	The details furnished Correctly.	The details furnished Correctly.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not proposed as no reject generated.	NA
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The details furnished Correctly.	The details furnished Correctly.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	details given in the AR.	The details furnished Correctly.
9h	Scrutiny of Annual return on fixed assets	Rs.530596317 for the mine, plant OD, work shop, power & water installation.D epreciation on fixed assets is Rs. 85039127/	The details furnished Correctly.
9k	Scrutiny of Annual return on mining machineries	Details furnished.	yes it is used in the mines as per the proposals in the approved document.

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
MCDR17	Rule 11(1)	26/10/2018			
MCDR17	Rule 26(2)	26/10/2018			

Date :**(G C MEENA)**

Indian Bureau of Mines