

**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 : **P005**) **C.PARAMESHWARAN**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/ Shri. Madhusudhan, Sr. VP.& Mines Manager. Dommic
Official with
Designation
- (iv) Date of Inspection : 09/09/2017
- (v) Prev.inspection date : 11/07/2017

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
 BELLARY KARNATAKA
 Phone:
 FAX :

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	:	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
	:	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	No proposals.	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	G1=15 ha mineralized area.	G1=15 ha mineralized area.	same as above
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	nil	nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposals.	nil	nil, however nt committed.
1e	Balance reserve as on 01/04/20	35.914 MMT	35.914 MMT	As above
1f	General remarks of inspecting officers on geology, exploration etc	No proposals.	The area expose the hard massive ore body very distinct.	Ore body is very clear and easy to follow the deposits.

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	North block A & B
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes	yes	Yes maintained.
2c	Stripping ratio or ore to OB ratio	1:1.19	1:1.42	variation due to hetrogeneous character.
2d	Quantity of topsoil generation in m3	Nil	nil	nil
2e	Quantity of overburden generation in m3	1077395m3	965592m3	slight variation.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	proposed for systematic operations.	Development is not as per the approved proposals.	Need to be rectified, violation need to be given.
----	---	-------------------------------------	---	---

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Three pits.	three pits only.	Moniutoring committee restricted production to 1.35MMT.
3b	Quantity of ROM mineral production proposed	1.8MMT	1.355MMT	Restriction from Monitoring committee.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	as above
3d	Quantity of mineral reject generation	nil	nil	nil
3e	Grade of mineral rejects generation and threshold value declared.	Nil	nil	nil
3f	Quantity of sub grade mineral generation.	Nil	NIL	NIL
3g	Grade of sub grade mineral generation	nil	nil	nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized.	Mechanized	yes mechanized.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	nil	nil
3j	Provision of drilling and blasting in mineral benches	Yes propsoed.	yes followed.	yes followed drilling & blasting.

3k	Provision of mining machineries in mineral benches	yes	yes used machineries as per the proposals.	yes followed.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes 9m proposed	suitable due to competent rock in both the starta.	yes both are competent rock
3m	Total area covered under excavation/pits	86.655 ha	86.655 ha	As above.
3n	Ore to OB ratio for the pit/mine during the year.	1:1.19	1:1.42	There is slight variation due to hetrogeneous character.
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, DHQ=7.41ha, Mineral storage=17.741 ha, 5.925ha= infrastruture, Road=7.928ha, plant=2.704 ha & 8.599 ha=others.	same as above.	satisfactory.
3p	Production of ROM mineral during the last five year period as applicable	2012-13=4.5LT, 2013-14=9.10LT, 2014-15=9.10LT, 2015-16=9.10LT, & 2016-17=1.8MMT.	2012-13=NIL, 2013-14=9.10LT, 2014-15=9.10LT, 2015-16=9.10LT, & 2016-17=1.355MMT.	yes achived as per the allotted quantity by the Monitoring committee.
3q	General remarks of inspecting officers on method of mining etc.	proposed for systematic operation.	working satisfcatorily, but the development is not satisfactory	need to be improved in the development stage.

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.	two nos. only.	as above.
4b	Location of topsoil, OB and mineral reject dumps	On the western side of the ML area.	western slope is the active.	Yes present on the western side.
4c	Number of dumps within lease area and outside of lease area	Within the ML is 4 & Outside is one.	Within the ML is 4 & Outside is one.	same as above
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	yes outside the UPL is maintained as the approved document.	work is taken care outside the lease.
4e	Number of active and alive dumps.	two dumps	Two only.	yes two only.
4f	Number of dead dumps.	3 nos.	3 nos.	same
4g	Number of dumps established.	3 nos.	3nos.	Three dumps present in the lease.
4h	Whether Retaining wall or garland drain all along dumps are there.	proposed.	yes present in the mine.	present as per the approved document.
4i	Length of Retaining wall or garland drain all along dumps	100m	140m done.	more than the proposed.
4j	Number of settling ponds	proposed.	yes it is constructed , wherevr applicable. but in te data sheet, it s given NA.	Settling tank present in the ML area.
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.	maintained in the slopes.

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.	Present in the float areas.	Not reported corretly.	Yes lessee reported during the field inspection, that in the past, float area got mined out and undertaken back filling & plantations.
5b	Area under backfilling of mined out area	yes present.	carried out in the past & reported in the annual return as reclamation & rehabilitations.	During the field visit it was discussed, but in the data sheet it is not & different.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals.	present working are within the degraded land & no chance for the development of top soil.	Yes no chance.
5d	Total area fully reclaimed and rehabilitated	130.054 ha	130.054 ha	it is given in the past float area back filled & planted after extraction of ore. Lessee not clear about back filling & reclamation & rehabilitations.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Back filling present in the ML area.	But now there is back filling or reclamation & rehabilitation work.	Presently no. lessee not reported accordingly.

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).	yes submitted	as per the approved document it is present in the mine.	yes present.
6b	Area available for rehabilitation (ha) .	6ha	12 ha area undertaken.	21000 nos of plantations with 19.68 lakhs of Rs.
6c	afforestation done (ha).	yes done.	21000 nos proposed, undertaken 21000 nos.	yes undertaken.
6d	No. of saplings planted during the year	21000 nos.	21000 nos.	Undertaken during the year.

6e	Cumulative no .of plants	present.	19.2 lakhs nos.	yes undertaken in the ML area.
6f	Any other method of rehabilitation	proposed	only thought plantations only.	Yes.
6g	Cost incurred on watch and care during the year	19.68 lakhs.	19.68 lakhs spend.	spend the amount for the securities.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil at present.	NA	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals.	nil	nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Nil	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals.	Nothing at present.	nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposals.	Nil	Lessee reports for 130.054 ha in waste land including the float area back filling thro plantations.

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	present.	All covered under 130.054 ha.	yes.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	plantations method.	yes plantations carried wherevr land permittted.	Undertaken wherevr applicable.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed for season wse.	Carried out environmental monitoring season wise.	All parameters are within the limit. PMCP activities are also undertaken as peer 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.	1.355MMT of 62-66%Fe.	reduced due to Monitoring committee.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Mechanized	All the operations are mechanized.
7c	Different grade of mineral sorted out at mines.	Proposed	Lumps & fines +64%Fe to +65%Fe of fines.	As above.
7d	Any beneficiation process at mines	Dry process only	No wet process, only dry.	same dry system is present.

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	proposals made for scientific & systematic mining.	lessee carried out systematically, but the development part need to be improved.	Needs to improve as per the approved document.
----	--	--	--	--

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposals.	nil	nil
8b	Concurrent use or storage of topsoil	No proposals.	nil	nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed.	Yes work is carried out as per the proposals.	Yes.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NO proposls.	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Float ore area in the past undertaken.	now no proposals for such work.	Nil
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.	It is being followed.
8g	Survival rate	85%	70-80%	As above.
8h	Water sprinkling on roads to control airborne dust	Proposed water sprinkling.	yes done.	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
9a	Status of submission of Monthly and Annual returns	Submitted MR & AR for the year 2016-17 as per the format.	Reported all the infromation, it was observed that, reclamation & rehabilitation extent area is not reported correctly & not reflected in the surface plan.	need to issue violation for the same.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details furnished on all the officers.	All are working as per the reporting.	yes it is satisfactory.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given details.	need to attend correctly on the reclamation & rehabilitation part only.	Yes it is required to attend.
9d	Scrutiny of Annual return on afforestation	21000 nos. within the area and 1000 with 82% survival.	it is satisfactory.	yes done to the satisfaction.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given nil	nil	nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	details given the AR.	Ex-mine price Rs. 6000/t for 60-62%Fe. Rs. 2308/t for 62-65%Fe. Rs. 2278/t for 62-65%fe. sale price is Rs. 2373/t for 62-65%Fe. Rs. 2256/t for fines of 62-65%Fe. Cost of price is Rs. 1826/t.	satisfactory with the prevailing market.

9h	Scrutiny of Annual return on fixed assets	Rs.511498092 for the mine, plant OD, work shop, power & water installation.D epreciation on fixed assets is Rs. 86940242/	Whatever report furnished with the existing market senerio is good.	satisfactory.
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.	yes it is satisfactory.

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

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	16/07/2018			
	Rule 45(7)	16/07/2018			

Date :

(C.PARAMESHWARAN)

Indian Bureau of Mines