

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JPR/-21/Fe-3

Mine code : 30RAJ13009

- (i) Name of the Inspecting : **S012**) **Sharma H.C.**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. Govind Singh Naruka
Official with
Designation
- (iv) Date of Inspection : 22-APR-19
- (v) Prev.inspection date : 19-JUL-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BAGAWAS**
- (b) **Registration NO.** : **IBM/997/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : RAJASTHAN
District : JAIPUR
Village : BAGAWAS
Taluka : VIRATNAGAR
Post office : BAGAWAS
Pin Code :
FAX No. : Not available
E-mail : bangangagroup@gmail.com
Phone : 9829010037
- (f) Police Station : Sahapura
- (g) First opening date : 17-NOV-69
- (h) Weekly day of rest : SUN
2. Address for : Sh Madhup Joshi
correspondance : B-242, circular Road, Nehru Nagar
Jaipur
3. (a) Lease Number : RAJ0031
- (b) Lease area : 4.99
- (c) Period of lease : 50
- (d) Date of Expiry : 05-SEP-52
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : MADHUP JOSHI
 B-242, CIRCULAR ROAD, NEHRU
 NAGAR JAIPUR JAIPUR
 RAJASTHAN
 Phone:
 FAX :

Owner : Madhup Joshi
 S/O Late R.S.Joshi B-242,
 circular Road, Nehru Nagar
 Jaipur JAIPUR RAJASTHAN
 Phone: 9829010037
 FAX :

Mining Engineer

Name : Santu Lal Saini, Full Time
 Qualification : BE(Mining)
 Appointment/ : 03-OCT-16
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	12-JUL-01
Plan/Scheme of Mining		Existing rule 11 MCDR1988	16-SEP-05
		Mining Scheme rule 12 MCDR1988	17-MAY-12
		MP review under 17(1) MCR 2016	20-JUL-17
		MP modif under 17(3) MCR 2016	13-JUL-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	A total of 10 boreholes were proposed to be drilled before April 1, 2019.	Total 10 Boreholes were drilled as on date of Inspection. The DTH core logs were sent to lessee's office at Jaipur for Mineral analysis.	
1b	Exploration over lease area for geological axis 1 or 2	4.99 ha area proposed to be explored under G1.	4.99 ha area explored under G1.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee himself	Lessee himself	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	1173480 T in proved 111 category.	1173480 T in proved 111 category.	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	Certain issues observed in Geological report submitted on 9/5/2019 after the date of inspection had been pointed out as violation of rule 12 4 A(b) of MCDR 2017.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	The Mound of hillock	The Mound of hillock	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no top soil, mineral is outcropping.	There is no top soil, mineral is outcropping.	
2c	Stripping ratio or ore to OB ratio	1 : 0.05	1 :0.05	
2d	Quantity of topsoil generation in m3	Nil	Nil	

2e	Quantity of overburden generation in m3	2730 Cu M	1000 T as reported
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The mineral is located over mound of hillock & outcropping. The opencast mechanized method had been adopted to carry out mining operations, which is suitable to the type of deposit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single	Single	
3b	Quantity of ROM mineral production proposed	209390 T	177940 T as reported.	
3c	Recovery of sailable/usable mineral from ROM production	97%	97%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	Nil	Not applicable	
3g	Grade of sub grade mineral generation	None	Not applicable	
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.	No proposal	Not applicable
3j	Provision of drilling and blasting in mineral benches	Short holes of 32 mm dia drilling by jack hammer & blasting with slurry explosives.	Short holes of 32 mm dia drilling by jack hammer & blasting with slurry explosives.
3k	Provision of mining machineries in mineral benches	Rock breaker, Excavator & dumper combination.	Rock breaker, Excavator & dumper combination.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes
3m	Total area covered under excavation/pits	1.70 ha	1.70 ha
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.05	1 : 0.05
3o	Total area put in use under different heads at the end of year	Total 3.15 ha	Total degraded area is 3.10 ha as reported
3p	Production of ROM mineral during the last five year period as applicable	2013-14- 47810 Tonnes 2014-15- 47880 Tonnes, 2015-16- 70140 Tonnes, 2016-17- 75600 Tonnes, 2017-18- 173780 Tonnes	2013-14- 41460 Tonnes 2014-15- 53890 Tonnes, 2015-16- 79503 Tonnes, 2016-17- 74603 Tonnes, 2017-18- 75600 Tonnes
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The semi mechanized opencast method is suitable to the type of deposit & same is adopted.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is no top soil worth preserving. Separate dumps of O/B Waste proposed.	Separate dumps of O/B Waste provided.
4b	Location of topsoil, OB and mineral reject dumps	No top soil, no stacking done. Waste dump towards western side slop of the mound within in lease area.	As per proposal.
4c	Number of dumps within lease area and outside of lease area	Three	Three within lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Towards western side slope of the mound within in lease area within UPL.	Towards western side slope of the mound within in lease area within UPL.
4e	Number of active and alive dumps.	Two	Two
4f	Number of dead dumps.	One	One
4g	Number of dumps established.	One	One
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall of rubble stone was proposed	Retaining wall is observed in destroyed form.
4i	Length of Retaining wall or garland drain all along dumps	Not specified.	About 50mts observed in destroyed form.
4j	Number of settling ponds	Not proposed	Not applicable
4k	Specific comments of inspecting officer on waste dump management	Not applicable	The dumping of O/B waste was satisfactory. but retaining wall is not maintained.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not proposed.	The deosit located in mound & no area is matured for backfilling.
5b	Area under backfilling of mined out area	No proposal	Not applicable
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed.	No top soil, Mining is being carried in mound top.
5d	Total area fully reclaimed and rehabilitated	Not proposed	Not applicable.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	There is no matured area for backfilling due to existance of mineral in depth. hence no reclamation proposal.

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 to be submitted	Submitted	
6b	Area available for rehabilitation (ha) .	None	Not applicable	
6c	afforestation done (ha).	0.30hact	0.30hact	
6d	No. of saplings planted during the year	50plants per annum	50 planted	
6e	Cumulative no .of plants	1500 plants	About 500plants are survived.	
6f	Any other method of rehabilitation	None	Not applicable	
6g	Cost incurred on watch and care during the year	Not specified	Not availkable	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed.	Not applicable.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	Not applicable.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not proposed	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not specified.	However about 500 tree planted with in lease area.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not specified	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Not proposed.	Not done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	No area is matured for reclamation. plantation is done.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not proposed for grade wise.	AS per proposals	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	Not applicable.	
7c	Different grade of mineral sorted out at mines.	Not proposed.	Not applicable.	
7d	Any beneficiation process at mines	Not proposed.	Not applicable.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	No problem of conservation.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil is available	Not applicable	

8b	Concurrent use or storage of topsoil	Not applicable	Not applicable
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dump Proposed for waste, no reject generation.	As per proposal.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Not applicable.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed.	No area is matured for backfilling and reclamation etc.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	50plants proposed every year	As per proposed 50 plants.
8g	Survival rate	50%	30%
8h	Water sprinkling on roads to control airborne dust	Proposed.	As per proposal on approach road & loading points.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	No immediate threat to aesthetic beauty of the area except land degradation.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Not applicable	The M/R submitted up to April 2019. The A/R for 2018-19 not become due for submission.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The A/R for 2018-19 not become due for submission.	The A/R for 2018-19 not become due for submission.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The A/R for 2018-19 not become due for submission.	The A/R for 2018-19 not become due for submission.
9d	Scrutiny of Annual return on afforestation	The A/R for 2018-19 not become due for submission.	The A/R for 2018-19 not become due for submission.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	The A/R for 2018-19 not become due for submission.	The A/R for 2018-19 not become due for submission.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The A/R for 2018-19 not become due for submission.	The A/R for 2018-19 not become due for submission.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The A/R for 2018-19 not become due for submission.	The A/R for 2018-19 not become due for submission.
9h	Scrutiny of Annual return on fixed assets	The A/R for 2018-19 not become due for submission.	The A/R for 2018-19 not become due for submission.
9k	Scrutiny of Annual return on mining machineries	The A/R for 2018-19 not become due for submission.	The A/R for 2018-19 not become due for submission.

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 :

(Sharma H.C.)

Indian Bureau of Mines