

**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 : T001 ) Tardia K.K.  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sushil Joshi, Owner's representative  
Official with  
Designation
- (iv) Date of Inspection : 28-DEC-16
- (v) Prev.inspection date : 18-NOV-15

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : BAGAWAS
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (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 : Not available
- Phone : 9829010037
- (f) **Police Station** : Sahapura
- (g) **First opening date** : 17-NOV-69
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : Sh Madhup Joshi  
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 :

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

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	two prospecting pits of size 4m*4m*3m	done	As per proposal
1b	Exploration over lease area for geological axis 1 or 2	not proposed.	na	na
1c	Exploration Agencies and Expenditure in lakh rupees during the year	not proposed	na	na
1d	Balance area to be explored to bring Geological axis in 1 or 2	not proposed	na	na
1e	Balance reserve as on 01/04/20	743451 tonnes	724246 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc		satisfactory	As per proposal

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	pit 1&2	pit 1&2	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no top soil, hence no Separate benches in topsoil is proposed. Separate benches in overburden and mineral has been proposed.	Separate benches in overburden and mineral has been formed but benches have not been advanced sufficiently towards SE-NW side of the pit.	Violation of rule 13(1) has been pointed out
2c	Stripping ratio or ore to OB ratio	1:0.071	1:0.52	Almost as per proposal
2d	Quantity of topsoil generation in m3	na	na	

2e	Quantity of overburden generation in m3	19,730	3,000	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		satisfactory	Almost as per proposal

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	6	6	As per proposal
3b	Quantity of ROM mineral production proposed	2,76,220 t	2,49,456 t	As per proposal
3c	Recovery of sailable/usable mineral from ROM production	80%	80%	As per proposal
3d	Quantity of mineral reject generation	19547 t	2567 t	
3e	Grade of mineral rejects generation and threshold value declared.	Bulk density less than 3.5MT/m3 is rejected, foreign material like quartzite also rejected.	No segregation or gradewise rejection done, mineral sold as it is as ROM	
3f	Quantity of sub grade mineral generation.	na	na	
3g	Grade of sub grade mineral generation	na	na	
3h	Manual / Mechanised method adopted for segregating from ROM	mechanical	mechanical	

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3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	na	na	
3j	Provision of drilling and blasting in mineral benches	Semi Mechanized mining, with drill holes at an angle for efficient use of explosives. Drilling to be done using 4" bit drifter. Conventioanal explosives Amonium nitrate fuel oil to be used.	Semi Mechanized mining, with drill holes at an angle for efficient use of explosives. Drilling to be done using 4" bit drifter. Conventioanal explosives Amonium nitrate fuel oil to be used.	As per proposal
3k	Provision of mining machineries in mineral benches	Hydraulic excavator cum rock breaker-1 Compressor 120cfm with jack hammers and drill rods-1 Drill machines - as required Tipper/Loader -3 Tractor -1 Water Pump 5HP -1	Hydraulic excavator cum rock breaker- 1 Compressor 120cfm with jack hammers and drill rods-1 Drill machines - as required Tipper/Loader -3 Tractor -1 Water Pump 5HP -1	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	yes	As per proposal
3m	Total area covered under excavation/pits	1.28 hect	1:0.02 hect	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.071	1:0.052	

3o	Total area put in use under different heads at the end of year	Pit- 1.28 Waste/reject .30 Others- 1.03, total 2.31	Pit- 1.1 Waste/reject 0 Others- 2.05 , Total - 3.15	
3p	Production of ROM mineral during the last five year period as applicable	I Yr- 34,790 2 Yr-47,810 3Yr-47, 880 4 Yr- 70,140 5 Yr- 75,600	1 Yr-- 2 Yr-41,460 3 Yr-53,890 4 Yr- 79,503 5 Yr- 74, 603	Almost as per proposal
3q	General remarks of inspecting officers on method of mining etc.		satisfactory	Almost as per proposal

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate Dumping Of & Mineral Reject Are Proposed In The Mining Plan	Separate Dumping Of Ob & Mineral Reject as per Mining Plan	
4b	Location of topsoil, OB and mineral reject dumps	na	na	
4c	Number of dumps within lease area and outside of lease area	One dump is proposed in the lease area, No dump is proposed outside the lease area.	One dump is proposed in the lease area, No dump is proposed outside the lease area.	As per proposal
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	South eastern side slope of th emound on non mineralized land	South eastern side slope of th emound on non mineralized land	As per proposal
4e	Number of active and alive dumps.	1	1	
4f	Number of dead dumps.	nil	nil	
4g	Number of dumps established.	1	1	

4h	Whether Retaining wall or garland drain all along dumps are there.	Rubber Stone Wall	Rubber Stone Wall	As per proposal
4i	Length of Retaining wall or garland drain all along dumps	na	na	
4j	Number of settling ponds	na	na	
4k	Specific comments of inspecting officer on waste dump management		satisfactory	Almost as per proposal

#### 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.	na	na	na
5b	Area under backfilling of mined out area	na	na	na
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	na	na	na
5d	Total area fully reclaimed and rehabilitated	na	na	na
5e	General remarks of inspecting officers on backfilling and reclamation etc.	na	na	OB used in road cvonstruction

#### Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual report on PMCP submitted on time and correctly	Not Submitted .	violation of rule 23(E)(2) has been pointed out.
6b	Area available for rehabilitation (ha) .	Not envisaged at present	Not envisaged at present	
6c	afforestation done (ha).	yes	yes	yes
6d	No. of saplings planted during the year	50 Plants	50 Plants	As per proposal
6e	Cumulative no .of plants	600 Approx.	600 Approx.	As per proposal
6f	Any other method of rehabilitation	NA	NA	NA
6g	Cost incurred on watch and care during the year	50,000	50,000	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No back filling proposed	No back filling proposed	No back filling proposed
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NA	NA	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	



6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	20 meters parapet wall, 100 meter wire fencing.	20 meters parapet wall, 100 meter wire fencing.	As per proposal
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			regular EMP parameter s are being monitoterd.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	2,76,220 tone proposed to dispatch	2,49,456 tone Dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Only one grade	Only one grade	

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7d	Any beneficiation process at mines	N/A	N/A	N/A
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Almost as per proposal

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	To be scarped and stacked seperately	No Top Soil come across	
8b	Concurrent use or storage of topsoil	To be used for plantation	Not come across	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	A single dump of 0.24 Ha to be built on the South eastern slope.	A single dump of 0.10 Ha. South eastern side.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	To take short term permit to sell the maximum waste.	Not sale	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	N/A	N/A	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	50 trees proposed to be planted every year.	50 trees planted every year.	As per proposal
8g	Survival rate	60%	50%	

8h	Water sprinkling on roads to control airborne dust	Water sprinkler over kucha approach roads	Water sprinkler over kucha approach roads	As per proposal
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			General aesthetic beauty in and around mine is good.

#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto - November 2016 A.R. not submitted for the year 2015-16	Violation of rule 45(5)(b) has been pointed out.	Violation of rule 45(5)(b) has been pointed out.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - 1 Mining Mate - 1	Intimation of appointment of mining Engr. has not been given.	Violation of rule 46 has been pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	3.0 Hectare Mining 0.5 Overburden 0.4 Roads 1.09 Others	Violation of rule 45(5)(b) has been pointed out.	Violation of rule 45(5)(b) has been pointed out.
9d	Scrutiny of Annual return on afforestation	na	Violation of rule 45(5)(b) has been pointed out.	Violation of rule 45(5)(b) has been pointed out.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	na	Violation of rule 45(5)(b) has been pointed out.	Violation of rule 45(5)(b) has been pointed out.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	na	Violation of rule 45(5)(b) has been pointed out.	Violation of rule 45(5)(b) has been pointed out.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	na	Violation of rule 45(5)(b) has been pointed out.	Violation of rule 45(5)(b) has been pointed out.

9h	Scrutiny of Annual return on fixed assets	na	Violation of rule 45(5)(b) has been pointed out.	Violation of rule 45(5)(b) has been pointed out.
9k	Scrutiny of Annual return on mining machineries	na	Violation of rule 45(5)(b) has been pointed out.	Violation of rule 45(5)(b) has been pointed out.

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**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

**Date :**

**(Tardia K.K.)**

Indian Bureau of Mines