

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/BAR-26/SE-14

Mine code : 97RAJ04008

- (i) Name of the Inspecting : **S012**) **Sharma H.C.**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. Jasveer Singh
Official with
Designation
- (iv) Date of Inspection : 29/06/2021
- (v) Prev.inspection date : 29/01/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BARIYARA(04/10)**
- (b) **Registration NO.** : **IBM/15389/2013**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : RAJASTHAN
District : BARMER
Village : BARIYARA
Taluka : SHEO
Post office :
Pin Code :
FAX No. : 0141-2385161
E-mail : vinod@haritsons.com
Phone : 9829076622
- (f) Police Station : Shiv
- (g) First opening date : 14/06/2015
- (h) Weekly day of rest : SUN
2. Address for : Bariyara Silicious Earth Mine, ML No 4/2010,
correspondance Village- Bariyara, Tehsil - Shiv,
Barmer- 344701 Rajasthan.
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :
4. Mineral worked : SILICEOUS EARTH Main

5. Name and Address of the

Lessee : JAIPUR MAGMATICS PVT LTD
JAIPUR RAJASTHAN
Phone:
FAX :

Owner : Vinod Haritwal
Sh. Vinod Haritwal,
Nandnum- II, A-2, Tilak
Marg, C- Scheme, Jaipur
JAIPUR RAJASTHAN
Phone: 9829076622
FAX :

Agent : Jasver sing Nathawat
Nandnam-II, 2A Tilak Marg,
C-Scheme Jaipur Rajasthan
JAIPUR RAJASTHAN
Phone:
FAX : 0141-2385161

Mining Engineer

Name : Sri Rakesh Choudhary, Full Time
Qualification : BE Mining
Appointment/ :
Termination date

Manager

Name : Sri Rakesh Choudhary
Qualification : BE Mining
Appointment/ :
Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP review under 17(1) MCR 2016 11/02/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No pit or trenches were proposed in the previous approved Review of Mining Plan	No exploration was done	
1b	Exploration over lease area for geological axis 1 or 2	No proposal	Not applicable	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	
1e	Balance reserve as on 01/04/20	110160 T	110160 T	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The entire lease area has been explored.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Near boundary pillar C	Being done	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches were proposed in soil, OB and Mineral	Benches were formed	
2c	Stripping ratio or ore to OB ratio	1.19	Not reported	
2d	Quantity of topsoil generation in m3	No proposal	Zero	
2e	Quantity of overburden generation in m3	6804 m3	2000 m3	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The development of the pit was as per proposals.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit	Single pit	
3b	Quantity of ROM mineral production proposed	7000 T	2300 T	
3c	Recovery of sailable/usable mineral from ROM production	6300 T	2100 T	
3d	Quantity of mineral reject generation	700 T	200 T	
3e	Grade of mineral rejects generation and threshold value declared.	General grade siliceous earth	General grade earth	siliceous
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
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	Not required	None	

3k	Provision of mining machineries in mineral benches	Manual	Manual
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes some where bench height is observed more than 3m.
3m	Total area covered under excavation/pits	0.62 hect.	0.25 hect.
3n	Ore to OB ratio for the pit/mine during the year.	1.19	Not reported
3o	Total area put in use under different heads at the end of year	0.64 hect.	0.30 hect.
3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 6090 T, 2017-18 - 6220 T, 2018-19 - 6280 T, 2019-20 - 6300 T, 2020-21- 6300 T.	2016-17 -100 T, 2017-18 - Zero, 2018-19 -Zero, 2019-20 -950 T, 2020-21- 2100 T.
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The open cast manual method has been adopted in this surface deposit.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	6804 m3 soil/OB was proposed to be removed	2000 m3	
4b	Location of topsoil, OB and mineral reject dumps	Given on plan	No generation of soil	
4c	Number of dumps within lease area and outside of lease area	One	One	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OB generation was proposed to be used in backfilling	OB was used in backfilling
4e	Number of active and alive dumps.	One	One
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	Zero	Zero
4h	Whether Retaining wall or garland drain all along dumps are there.	No retaining wall was proposed in approved mining plan.	No retaining wall was made, wire fencing around the plantation has been done
4i	Length of Retaining wall or garland drain all along dumps	No retaining wall was proposed in approved mining plan.	None
4j	Number of settling ponds	No proposal	None
4k	Specific comments of inspecting officer on waste dump management	Not applicable	OB generation was used in backfilling, as per approved proposals.

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.	Proposal was given to backfill cocurrently	Being done	
5b	Area under backfilling of mined out area	2000 sqm area was proposed to be backfilled	500 sqm area backfilled	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Soil was proposed to be used	Not generated	
5d	Total area fully reclaimed and rehabilitated	0.2 ha	0.05 ha	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	Proposal was given to backfill with soil & O/B waste, which is being carried out.
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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).	Yes as per rule	Not submitted	
6b	Area available for rehabilitation (ha) .	0.2 ha	0.05 ha	
6c	afforestation done (ha).	50 plants were proposed in 0.02 hect. area during five years.	About 25 plants have been planted in the lease area and about 25 plants have been planted out side the lease area	
6d	No. of saplings planted during the year	10 nos	25 nos.	
6e	Cumulative no .of plants	50 plants were proposed in 0.02 hect. area during five years.	50 plants, out of which 25 planted within ML & 25 outside ML.	
6f	Any other method of rehabilitation	By plantation	By plantation.	
6g	Cost incurred on watch and care during the year	Not specified	Not applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Not applicable	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Not applicable	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	No specified proposal	Not applicable
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The annual report of reclamation & rehabilitation has not been submitted for which VL is proposed to be issued.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	2167.32 T
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual
7c	Different grade of mineral sorted out at mines.	General grade	General grade
7d	Any beneficiation process at mines	No proposal	Not applicable
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	There is no issue regarding conservation of mineral in the mine.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes proposed	Not generated	
8b	Concurrent use or storage of topsoil	Proposed to be used in plantaion.	Not generated	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed	OB backfilled simultaneously	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes OB proposed to be backfilled simultaneously	Being done	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposal was given to restore the land	Lessee backfilled the excavated area with OB waste.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	20 trees during 2020-21	25 planted within ML & 25 out side ML.
8g	Survival rate	Not specified	70%
8h	Water sprinkling on roads to control airborne dust	Not specified	Not applicable
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The general aesthetic beauty in & around the mine was satisfactory.

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 June 2021. The A/R Submitted for 2020-21.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Agent- Sh. Ashok Khatri, Mining engineer & manager- Sh. Rakesh chaudhry.	Found in order	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	No information has been furnished about land use.	No information has been furnished about land use.	
9d	Scrutiny of Annual return on afforestation	25 nos planted within ML & 25 planted out side lease area.	Found in order	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject generation stated as zero.	Reject zero
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock- 1698.48, Production 2100 T	Found in order
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine Price Rs 370.38 per T and cost of production- Rs. 370.38 per T	Found O K
9h	Scrutiny of Annual return on fixed assets	The value of Fixed assets not furnished.	The value of Fixed assets not furnished.
9k	Scrutiny of Annual return on mining machineries	No M/C deployed.	Manual Mining

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