

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/BMR-30/SE-15

Mine code : 97RAJ04007

- (i) Name of the Inspecting : **S012**) **Sharma H.C.**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. Jasveer, Agent
Official with
Designation
- (iv) Date of Inspection : 28/06/2021
- (v) Prev.inspection date : 29/01/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BARIYARA (03/10)**
- (b) **Registration NO.** : **IBM/15389**
- (c) **Category** : A Other than Fully Mech.
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : RAJASTHAN
- District : BARMER
- Village : BARIYARA
- Taluka : SHEO
- Post office : SHEO
- Pin Code : 344701
- FAX No. : 0141-2385161
- E-mail : vinod@haritsons.com
- Phone : 9829076622
- (f) **Police Station** : Shiv, Barmer
- (g) **First opening date** : 16/06/2014
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/S Jaipur Magmatics Pvt. Ltd.
Nandnum- II, A- 2, Tilak Marg,
C- Scheme, Jaipur - 302005 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 : JAIPUR MAGMATICS PVT.LTD.
 BARMER RAJASTHAN
 Phone:
 FAX :

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

Mining Engineer

Name : RAKESH CHAUDHRY, Full Time
 Qualification : Forman Certificate & Second class certif
 Appointment/ : 26/02/2015
 Termination date

Mining Engineer

Name : Sri Rakesh Choudhary, Full Time
 Qualification : BE Mining
 Appointment/ : 26/02/2015
 Termination date

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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|---|--|---------|
| 1a | Backlog of previous year | 5 trenches were proposed in the previous approved Mining Plan | No exploration carried out. | |
| 1b | Exploration over lease area for geological axis 1 or 2 | 2.63 ha in G1 category | Nil | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | lessee himself | None | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | 2.63 ha | 2.63 ha | |
| 1e | Balance reserve as on 01/04/20 | 32076 T | 59884 T | |
| 1f | General remarks of inspecting officers on geology, exploration etc | Not applicable | No exploration carried out as proposed. It is proposed to issue VL for the same. | |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|---|---------------------|---------|
| 2a | Location of development w.r.t.lease area | Near Boundary line CD | 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 :1.79 | Not reported | |
| 2d | Quantity of topsoil generation in m3 | Zero | Zero | |
| 2e | Quantity of overburden generation in m3 | 5400 Cu M | No record kept | |

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| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | Not applicable | The pit has been developed by opencast semi mechanised method. |
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Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|----------------|------------------------|---------|
| 3a | Number of pit proposed for production | Single pit | No working | |
| 3b | Quantity of ROM mineral production proposed | 3564 T | Nil as no working made | |
| 3c | Recovery of sailable/usable mineral from ROM production | 3208 T | Nil as no working made | |
| 3d | Quantity of mineral reject generation | 356 T | Nil as no working made | |
| 3e | Grade of mineral rejects generation and threshold value declared. | Not applicable | Not applicable | |
| 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 | None | |
| 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 | No proposal | Not applicable | |

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| 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 | 0.5 hect. | 0.36 hect. |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:1.79 | Not reported |
| 3o | Total area put in use under different heads at the end of year | 0.52 hect. | 0.38 hect. |
| 3p | Production of ROM mineral during the last five year period as applicable | 2016-17 - 3280 T, 2017-18 - 3300 T, 2018-19 - 2670 T, 2019-20 - 3175 T, 2020-21-3208 T | 2016-17 - 225 T, 2017-18 - 21.5 T, 2018-19 - Nil, 2019-20 - Nil, 2020-21- Nil |
| 3q | General remarks of inspecting officers on method of mining etc. | Not applicable | The opencast manual method has been adopted for carrying out mining operations in the mine. |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|------------------------|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | 5400 m3 soil/OB was proposed to be removed during 2020-21. | No soil/OB was removed | |
| 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 | None | None | |

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| 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. | None | None |
| 4f | Number of dead dumps. | None | None |
| 4g | Number of dumps established. | None | None |
| 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 | Not applicable | Not applicable |
| 4j | Number of settling ponds | No proposal | Nil |
| 4k | Specific comments of inspecting officer on waste dump management | Not applicable | OB generation was proposed to be used in backfilling & was backfilled. |

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 | No OB generated during 2020-21 | |
| 5b | Area under backfilling of mined out area | 1170 sqm area was proposed to be backfilled | No backfilling in 2020-21 | |
| 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 | 0.56 ha | 0.12 ha | |

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| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | Not applicable | The excavated area is symultaneously back filled. Mine was closed during 2020-21. |
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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) . | 0.03 ha | 0.03 ha | |
| 6c | afforestation done (ha). | 50 plants were proposed in 0.02 hect. area during five years. | About 20 plants have been planted in the lease area near office side, along BC- & CD lease | |
| 6d | No. of saplings planted during the year | 10 nos | Nil during 2020-21. | |
| 6e | Cumulative no .of plants | 50 plants were proposed in 0.02 hect. area during five years. | About 20 plants have been planted in the lease area near office side, along BC- & CD lease | |
| 6f | Any other method of rehabilitation | No proposal | None | |
| 6g | Cost incurred on watch and care during the year | Not specified | Nil as mine was closed. | |
| 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 | |

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| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation 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 | None |
| 6o | Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation | No proposal | None |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Air water monitoring proposed. | Mine was closed. |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | Not applicable | The annual return of reclamation & rehabilitation has not been submitted for which VL of rule 26(2) is proposed. |

Mineral Conservation:

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

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| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | 3208 T | Nil as mine was closed. |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Manual | Manual |
| 7c | Different grade of mineral sorted out at mines. | Single grade | Single grade |
| 7d | Any beneficiation process at mines | No proposal | None |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | Not applicable | The mine was closed & there was no mineral conservation issue in the mine. |

Environment :

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

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| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | OB backfilled simultaneously | OB backfilled simultaneously |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | 50 nos proposed during plan period. | 25 plants planted outside the ML area. |
| 8g | Survival rate | 80 % | Mine was closed. |
| 8h | Water sprinkling on roads to control airborne dust | Proposed water spraying on haul road | Mine was closed. |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | Not applicable | The general aesthetic beauty in & around 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 | Manager & Mining Engineer- Sh. Rkesh chaudhary, Geologist- None | The VL for non employment of Geologist proposed to be issued as VL. | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | The land use furnished as zero. | It can not be Zero. | |
| 9d | Scrutiny of Annual return on afforestation | 25 nos of trees planted outside ML with survival rate of 60%. | Found O K | |

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| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Reject generation stated as zero | Found in order |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Opening stock - Zero, Production-Zero & closing stock -Zero | Found in order |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | The ex- mine price stated as RS. 305.68 per tonne & same is shown as cost of Production. | The Production is stated as zero & figures relates to previous year. |
| 9h | Scrutiny of Annual return on fixed assets | The value of fixed assets stated as zero. | It can not be zero. |
| 9k | Scrutiny of Annual return on mining machineries | The zero m/c deployed. | Found in order. |

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 :

(Sharma H.C.)

Indian Bureau of Mines