

**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 : **DJ03**) **DILIP JAIN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Rakesh choudhary, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 29-JAN-20
- (v) Prev.inspection date : 24-NOV-18

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 :
FAX No. : 0141-2385161
E-mail : vinod@haritsons.com
Phone : 9829076622
- (f) Police Station : Shiv, Barmer
- (g) First opening date : 16-JUN-14
- (h) Weekly day of rest : SUN
2. Address for : M/S Jaipur Magmatics Pvt. Ltd.
correspondance : 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-FEB-15
 Termination date

Mining Engineer

Name : Sri Rakesh Choudhary, Full Time
 Qualification : BE Mining
 Appointment/ : 26-FEB-15
 Termination date

6. Date of approval of Mining : MP review under 17(1) MCR 2016 11-FEB-19
 Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal.	Not applicable.	As per approved document dated 16/05 2013 for the period 2014-15 to 2018-19.
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during reporting year 2018-19.	Not applicable as no proposal.	As per approved document dated 16/05 2013.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable as no proposal of exploration.	Not applicable.	As per approved document dated 16/05 2013.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No specific proposal about the balance area to be explored under G1/G2.	Not applicable.	NIL.
1e	Balance reserve as on 01/04/20	As per approved document dated 11/02/2019, the position of reserve and resource was 17480 and 1420 tonnes respectively.	The position of reserve and resource as on 01/04/2019 was 16075 and 1420 tonnes respectively.	Depletion of 1405 tonnes.
1f	General remarks of inspecting officers on geology, exploration etc	No proposal of exploration.	Not applicable.	No geological complexity in the deposit.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	88N to 126N and 112E to 170E	As per proposal.	NIL.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No specific proposal of top soil generation. Separate benches have been proposed in OB and Mineral.	No top soil generation. Separate benches have been observed in OB and Mineral.	NIL.
2c	Stripping ratio or ore to OB ratio	1:0.11 ton/ton	Waste generation not reported.	Violation of MCDR issued for non-reporting of waste generation.
2d	Quantity of topsoil generation in m3	No specific proposal.	Not applicable.	NIL.
2e	Quantity of overburden generation in m3	300 Tonnes.	Not reported.	Violation of MCDR issued.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development has been proposed through opencast method of mining.	Develop has been carried out as per proposal.	Open cast method of development is suitable as the mineral occurs near surface.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit.	Single Pit.	NIL.
3b	Quantity of ROM mineral production proposed	2670 tonnes	1405 tonnes	Low production is due to low market demand.
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	NIL.
3d	Quantity of mineral reject generation	No proposal of Mineral Reject Generation.	Not applicable as no proposal of Mineral Reject generation.	NIL.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal of Mineral Reject Generation.	Not applicable as no mineral reject generation.	NIL.
3f	Quantity of sub grade mineral generation.	No proposal.	Not applicable.	NIL.

3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	NIL.
3h	Manual / Mechanised method adopted for segregating from ROM	Manual method of segregation.	As per proposal.	NIL.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal of beneficiation study.	Not applicable as no proposal.	NIL.
3j	Provision of drilling and blasting in mineral benches	Drilling with Jack Hammer and Ammonium Nitrate Fuel explosive has been proposed along with booster and initiator.	Drilling and blasting has not been carried out.	NIL.
3k	Provision of mining machineries in mineral benches	Excavator, Tractor-Trolley, Jack Hammer etc.	As per proposal.	NIL.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height has been proposed to 3.00 mts finally.	Height of the benches has been maintained as per proposal.	NIL.
3m	Total area covered under excavation/pits	As per approved document dated 11/09/2013, an area of 0.65 Ha has been proposed to put in use at the end of the plan period i.e. 2018-19.	As per approved document dated 11/02/2019 an area of 0.0.225 Ha has been covered under excavation.	NIL.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.11 ton/ton	Waste generation not reported.	Violation of MCDR issued for non-reporting of waste generation.

3o	Total area put in use under different heads at the end of year	As per approved document dated 11/09/2013, total area of 1.17 Ha has been proposed to put in use at the end of the plan period i.e. 2018-19.	As per approve document dated 11/02/2019, total area of 0.55 ha. has been put under different heads.	NIL.
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 3160 2015-16: 3160 2016-17: 3280 2017-18: 3300 2018-19: 2670	2014-15: 2954 2015-16: 1000 2016-17: 225 2017-18: 215 2018-19: 1405	All figures in tonnes.
3q	General remarks of inspecting officers on method of mining etc.	Opencast method of the mining has been proposed.	Opencast method of mining has been practiced.	Due to near surface deposition of mineral opencast method is suitable.

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 the waste has been proposed. No specific proposal of top soil and MR generation.	Waste/OB generated has been dumped separately. Top soil and MR has not been generated during the year.	NIL.
4b	Location of topsoil, OB and mineral reject dumps	Waste dumping: 138E to 195E/198N to 250 N.	Dumping of the waste has been observed as per new approved proposal dated 11/02/2019.	NIL.
4c	Number of dumps within lease area and outside of lease area	Single.	Dumped in scattered manner three locations.	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL.	Presently coming within UPL.	NIL.
4e	Number of active and alive dumps.	Single dump near boundary line A-D.	No active dumping.	NIL.
4f	Number of dead dumps.	No Proposal.	Not applicable.	NIL.

4g	Number of dumps established.	No proposal.	Not applicable.	NIL.
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal of retaining wall or garland drain.	Not applicable as no proposal.	NIL.
4i	Length of Retaining wall or garland drain all along dumps	No proposal.	Not applicable.	NIL.
4j	Number of settling ponds	No proposal.	Not applicable.	NIL.
4k	Specific comments of inspecting officer on waste dump management	Generated waste has been proposed to dump.	Waste has been dumped as per proposal.	No issues related to waste dumping.

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.	No specific proposal of full extraction.	Not applicable as no proposal.	NIL.
5b	Area under backfilling of mined out area	No proposal.	Not applicable.	NIL.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No specific proposal of top soil generation.	Top soil has not been generated.	NIL.
5d	Total area fully reclaimed and rehabilitated	No proposal.	Not applicable.	NIL.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal of reclamation during the RY.	Backfilling/reclamation has not been carried out during the year.	No issues related to backfilling.

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).	As per rule 26 of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year.	PMCP report of the year 2018-19 has not been submitted.	Violation of MCDR issued vide letter dated 28/02/2020
6b	Area available for rehabilitation (ha) .	0.03 ha rehabilitation /plantation. (Nera boundary pillar B).	Plantation as proposed near boundary pillar B has not been carried out.	Violation of MCDR issued.
6c	afforestation done (ha).	0.03 Ha.	NIL.	Violation of MCDR issued.
6d	No. of saplings planted during the year	20 trees	No plantation observed, violation of MCDR issued.	It has been claimed that 100 saplings within lease area (AR 2018-19).
6e	Cumulative no .of plants	100 number of plants during the plan period.	No planation except naturally grown bushes and trees.	NIL.
6f	Any other method of rehabilitation	Other than plantation, no any other method of rehabilitation	Not applicable as no proposal.	NIL.
6g	Cost incurred on watch and care during the year	Not specified.	Not applicable.	NIL.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal.	Not applicable.	NIL.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal.	Not applicable.	NIL.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal.	Not applicable.	NIL.

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal making reservoir.	Not applicable as no proposal of making reservoir.	NIL.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No any other specific proposal.	Not applicable as no proposal.	NIL.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal.	Not applicable.	NIL.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	Not applicable.	NIL.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	Not applicable.	NIL.
6p	Compliance of environmental monitoring (core zone and buffer zone)	No specific proposal.	Not applicable.	NIL.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Planation over 0.03 ha with 20 numbers of saplings has been proposed.	Plantation as proposed has not been carried out. Further, the annual return of PMCP under rule 26 has not been submitted for the year 2018-19.	Violation of MCDR issued vide letter dated 28/02/2020.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not specified for grade wise sorting.	Mineral is being spread for sun drying and dispatched to consumer.	NIL.

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual.	Manual.	NIL.
7c	Different grade of mineral sorted out at mines.	No specific proposal.	Not applicable as no proposal.	NIL.
7d	Any beneficiation process at mines .	No beneficiation process at the mine.	Not applicable as no beneficiation process at the mine.	NIL.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No proposal of any beneficiation.	Not applicable as no proposal.	No issued related to Mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No specific proposal.	Not applicable.	NIL.
8b	Concurrent use or storage of topsoil	No proposal.	Not applicable.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for waste.	Waste has been dumped separately.	NIL.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Not applicable.	NIL.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal for the RY.	Not applicable as no proposal.	NIL.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	20 trees	No plantation.	Violation of MCDR issued vide letter dated 28/02/2020.
8g	Survival rate	80%	Not applicable as no planation carried out.	NIL.
8h	Water sprinkling on roads to control airborne dust	Proposed.	Obsrevd.	NIL.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No specific proposal other than plantation.	Plantation as proposed has not been carried out. Violation of MCDR issued.	The general aesthetic beauty of in and around mine was satisfactory as mine is mostly in non-working state.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR, monthly and annual returns to be submitted.	Monthly and annual returns have been submitted for reporting year.	NIL.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information has been furnished about Mining Engineer and Geologist.	Mining engineer was present at the time of the inspection.	Scrutiny of AR 2018-19.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern has not been furnished in the AR 2018-19.	No information has been furnished.	Violation of MCDR issued dated 28/02/2020.

9d	Scrutiny of Annual return on afforestation	100 trees inside and 70 trees outside lease area.	No plantation.	Violation of MCDR issued dated 28/02/2020.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Information on Mineral reject generation furnished is NIL. .	No mineral reject has been generated.	NIL.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: NIL and graded stock: 2254.31 tonnes. Grade wise production of 1405.00 tonnes has been furnished.	ROM production has not been furnished.	Violation of MCDR issued dated 28/02/2020.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price & production cost is Rs.550.00 prt tonne.	Information furnished has been found to correct.	NIL.
9h	Scrutiny of Annual return on fixed assets	The value of fixed asset furnished is NIL.	The information furnished found to correct.	NIL.
9k	Scrutiny of Annual return on mining machineries	Jeep/tractor etc.	It is stated that most of the HEMM are on contract basis.	NIL.

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)	28-FEB-20			
MCDR17	Rule 26(2)	28-FEB-20			
MCDR17	Rule 35(2)	28-FEB-20			
MCDR17	Rule 45(7)(a)	28-FEB-20			

Date :

(DILIP JAIN)

Indian Bureau of Mines