

**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 : **P022**) **PANKAJ KULSHRESTHA**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Jasvindar JI, Rep. of Lessee
Official with
Designation
- (iv) Date of Inspection : 17/10/2023
- (v) Prev.inspection date : 29/06/2021

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 proposal during the year 2022-23.	Nil	
1b	Exploration over lease area for geological axis 1 or 2	No proposal during the year 2022-23.	Not applicable	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration proposed during the year	As above	
1d	Balance area to be explored to bring Geological axis in 1 or 2	1.45 hectare of the lease area was proposed to be covered during the year 2020-21 for G1 axis.	1.45 hectare of the lease area was proposed to be covered during the year 2020-21 for G1 axis.	
1e	Balance reserve as on 01/04/20	113210 Tonnes (Total mineable reserves)	105000.00 Tonnes as on 01/04/2024	
1f	General remarks of inspecting officers on geology, exploration etc	NA	The overall status of geology and exploration may be considered as satisfactory.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	The working was proposed from southern direction of the lease area and face development in south to north direction at the location between 118 S-192 S and 08 W to 192 W.	As per proposal w.r.t production raised.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate bench of 1-2 meter in OB and 4 meter in mineral was proposed.	As above.
2c	Stripping ratio or ore to OB ratio	1: 0.45	NA
2d	Quantity of topsoil generation in m3	Nil	No top soil generated during the year 2022-23
2e	Quantity of overburden generation in m3	2220 cu.m of OB was proposed to be handled during the year 2022-23.	Nil during the year 2022-23.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	The present status of development of pit w.r.t type of deposit may be considered as satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One working pit	
3b	Quantity of ROM mineral production proposed	7240 tonnes of ROM proposed during the year 2022-23.	Total 200 tonnes of ROM produced during the year 2022-23.	
3c	Recovery of sailable/usable mineral from ROM production	90%	100% recoevery reported during the year 2022-23.	
3d	Quantity of mineral reject generation	724 tonnes of reject was expected to be generated during hte year 2022-24.	No reject generation reported during the year 2022-23.	
3e	Grade of mineral rejects generation and threshold value declared.	NA	No reject generation during hte year 2022-23.	
3f	Quantity of sub grade mineral generation.	No such proposal	No sub grade generation during the year 2022-23.	

3g	Grade of sub grade mineral generation	No such proposal	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 such proposal	Not applicable
3j	Provision of drilling and blasting in mineral benches	No such proposal for drilling and blasting in mineral benches.	Not applicable
3k	Provision of mining machineries in mineral benches	It was proposed to excavate mineral manually	None
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height 1-2 m in OB and 4 m in Silicious earth width 4 m	As above
3m	Total area covered under excavation/pits	0.19 hecets. at the start of plan period with 1.18 hecets. additional requirement during plan period up to March 2024.	As above
3n	Ore to OB ratio for the pit/mine during the year.	1:0.45	NA, No O/b generated during the year 2022-23

3o	Total area put in use under different heads at the end of year	Area under mining 0.19 heccts. + 1.18 heccts., Area for waste dump & overburden : 0.03 heccts. + 0.05 heccts., Area for mineral storage: 0.01+ 0.1 heccts., Area under roads: 0.03+0.05 heccts.	As above.
3p	Production of ROM mineral during the last five year period as applicable	2019-20: 7000 T 2020-21: 7000 T 2021-22: 7200 T 2022-23: 7240 T 2023-24: 7240 T	2018-19: 400 T 2019-20: 950 T 2020-21: 2100 T 2021-22: 300 T 2022-23: 200 T
3q	General remarks of inspecting officers on method of mining etc.	NA	The overall status of method of mining may be considered as satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	It was proposed to utilise O/B reject simultaneously in back filling.	As above	
4b	Location of topsoil, OB and mineral reject dumps	Not applicable	NA	
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	

4e	Number of active and alive dumps.	NA	NA
4f	Number of dead dumps.	NA	NA
4g	Number of dumps established.	NA	None
4h	Whether Retaining wall or garland drain all along dumps are there.	No such proposal	Not applicable
4i	Length of Retaining wall or garland drain all along dumps	NA	Not applicable
4j	Number of settling ponds	No such proposal	Not applicable
4k	Specific comments of inspecting officer on waste dump management	NA	The nature of dump is temporary. The Overburden/ reject is being utilised in simultaneous back filling.

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.	Full extraction of mineral from mined out area before start of backfilling.	As above.	
5b	Area under backfilling of mined out area	1.37 hecets	490 sq.m.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil available in the lease area.	Not applicable.	
5d	Total area fully reclaimed and rehabilitated	490 sq.m.	490 sq.m.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	The overall status on backfilling and reclamation may be considered as satisfactory.	

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	Yes submitted.	
6b	Area available for rehabilitation (ha) .	1.37 hecets.	490 sq.m.	
6c	afforestation done (ha).	It was proposed to plant 50 saplings in 0.02 hecets. of area along statutory barrier.	Total 50 saplings planted, but only 15 survived.	
6d	No. of saplings planted during the year	50 saplings to be planted during the year 2022-23	50 saplings planted during the year 2022-23, but only 15 survived.	
6e	Cumulative no .of plants	NA	18 within the lease area.	
6f	Any other method of rehabilitation	NA	None	
6g	Cost incurred on watch and care during the year	Rs. 2500/-	As above	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	490 sq.m.	490 sq.m.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	None	Not applicable	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No such proposal	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposal	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes,	Yes

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	6516 Tonnes during the year 2022-23	71.400 TOnnes during the year 2022-23.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No grade-wise sorting proposed.	Not applicable	

7c	Different grade of mineral sorted out at mines.	No grading at mine site proposed.	Not applicable
7d	Any beneficiation process at mines .	No beneficiation proposed at mine site	Not applicable
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The present status of mineral conservation may be considered as satisfactory. No beneficiation issue intimated.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil available in the area.	Not applicable	
8b	Concurrent use or storage of topsoil	NA	Not applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	Overburden/ waste/ OB is being utilised in simultaneous backfilling.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes, the mined out pit is reclaimed by the way of backfilling after full extraction of mineral.	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	50 saplings planted during the year.	Planted 50 saplings during the year 2022-23 but only 15 survived.
8g	Survival rate	20%	10-20% in long term.
8h	Water sprinkling on roads to control airborne dust	No such proposal	Not applicable.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	The overall status of aesthetic beauty in and around mines area may be considered as satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes ,as per rule	Yes, being submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager : Shri Rakesh Choudhary, Mining Engineer : Shri Rakesh Choudhary	As above	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings : 0, Used for waste disposal: 0.020 Hects	The data furnished above is not correct.	
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year : 20 (WML), 30 (OML) Survival rate in percentage 70-80, Total no. of trees at the end of year : 14(WML) and 24 (OML)	The survival rate is very poor it varies from 10 to 20 % .	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject : 0,	No reject generated.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock at mine-head : 1233.670 T, Production during the year : 200 Tonnes, and closing stock is 1362.270 T	As above.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price : Rs. 370.35, Production cost : Rs. 350	As above.
9h	Scrutiny of Annual return on fixed assets	Nil	The above furnished information seems to be incorrect.
9k	Scrutiny of Annual return on mining machineries	Nil	Not applicable

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
MCDR17	Rule 11(1)	09/05/2024			
MCDR17	Rule 55(1)(3)	09/05/2024			

Date :

(PANKAJ KULSHRESTHA)

Indian Bureau of Mines