

**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. Satvir Singh & Sh. S K Soni, QP
Official with
Designation
- (iv) Date of Inspection : 24-NOV-18
- (v) Prev.inspection date :

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. :
- 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 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 :

Mining Engineer

Name : RAKESH CHAUDHRY, Full Time
Qualification : Forman Certificate & Second class certif
Appointment/ : 26-FEB-15
Termination date

6. Date of approval of Mining :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Four prospecting pits were proposed in last mining plan approved on 16/5/2013.	The working pit had been made in SW direction of lease area.	
1b	Exploration over lease area for geological axis 1 or 2	The single pit had been worked in the lease area.	Two working pits had been developed & worked in the lease area.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No agency was involved lessee himself prospected lease area, cost not specified.	No agency was involved lessee himself prospected lease area, cost not available.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	Not applicable.	
1e	Balance reserve as on 01/04/20	17480 T in proved 111 category and resources 1420 T.	32076 T in proved 111 category, probable 121/122 category is 29408 T and 15836 T resources as on date of inspection.	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The future exploration 9 trenches in the year 2020-21 proposed will enhance the reserves position.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Working with single pit proposed with separate bench wide developed in O/B waste & area in mineral.	Two working pits of size 105m long X 15-32m wide and 17m long X 6-10m wide developed in the area.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	

2c	Stripping ratio or ore to OB ratio	N A	Not applicable
2d	Quantity of topsoil generation in m3	Nil	Not applicable
2e	Quantity of overburden generation in m3	Nil	A Total of 2120 T had been removed so far.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The development was proposed systematically with single pit, but two pits developed.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single	Made Two pits.	
3b	Quantity of ROM mineral production proposed	2014-15-- 3320 T, 2015-16-- 3160 T, 2016-17 -- 3280T, 2017-18-- 3300 T, 2018-19-- 2670 T(till Sept2018)	2014-15-- 2954.47 T, 2015-16-- 1000 T, 2016-17 -- 225T, 2017-18-- 21.5 T, 2018-19-- Nil	
3c	Recovery of sailable/usable mineral from ROM production	90%	Being done	
3d	Quantity of mineral reject generation	A Total of 1120 T of reject generation proposed during plan period.	A Total of 468.03 T of reject generated till date of inspection.	
3e	Grade of mineral rejects generation and threshold value declared.	Not specified	Not applicable	
3f	Quantity of sub grade mineral generation.	Not specified	No subgrade mineral generated.	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	

3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Use of JCB excavater made for excavation in O/B.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not applicable
3j	Provision of drilling and blasting in mineral benches	No drilling blasting proposed.	The excavation proposed by use of HEMM.
3k	Provision of mining machineries in mineral benches	No drilling blasting proposed.	The excavation proposed by use of HEMM.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	Being done
3m	Total area covered under excavation/pits	0.65 ha	0.225 ha
3n	Ore to OB ratio for the pit/mine during the year.	NA	Not applicable
3o	Total area put in use under different heads at the end of year	Excavation - 0.65 ha, dumping - 0.16 ha	Excavation - 0.225 ha, Dumping- 0.23 ha
3p	Production of ROM mineral during the last five year period as applicable	2014-15-- 3320 T, 2015-16-- 3160 T, 2016- 17 -- 3280T, 2017-18-- 3300 T, 2018-19-- 2670 T(till Sept2018)	2014-15-- 2954.47 T, 2015-16-- 1000 T, 2016- 17 -- 225T, 2017-18-- 21.5 T, 2018-19-- Nil
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The method of mining adopted is suitable to the type of deposit.

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No top soil available, O/B & reject dumped separately.	No top soil available, O/B & reject dumped separately.	
4b	Location of topsoil, OB and mineral reject dumps	No top soil, the O/B & reject dumping separately.	The O/B waste & reject dumped at four locations named D1, D2, D 3 & D-4 in scattered manner.	
4c	Number of dumps within lease area and outside of lease area	Single dump near boundary line A-D.	The O/B waste dumped scattered manner at four locations.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out Side UPL.	Partly within UPL & Partly out side UPL within barrier zone of boundry.	
4e	Number of active and alive dumps.	Single dump near boundary line A-D.	Dumped in scattered manner at four locations.	
4f	Number of dead dumps.	Nil	None	
4g	Number of dumps established.	Nil	None	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	NO	
4i	Length of Retaining wall or garland drain all along dumps	Nil	Not provided.	
4j	Number of settling ponds	Nil	Not applicable	
4k	Specific comments of inspecting officer on waste dump management	Not applicable	The dumps made in scattered manner at four locations.	

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 backfilling proposed during the year.	No backfilling carried out so far.	

5b	Area under backfilling of mined out area	Nil	Not applicable
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil generated.	Not applicable
5d	Total area fully reclaimed and rehabilitated	Nil	Not applicable
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	There was no area backfilled so far, besides there is scope for symultaneous backfilling, which had been proposed in currently submikttd mining plan processed alongwith this MCDR inspection.

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	No as mine was closed during last year.	
6b	Area available for rehabilitation (ha) .	0.65 ha	0.2 ha	
6c	afforestation done (ha).	50 trees plantation per year during last plan period.	Nil	
6d	No. of saplings planted during the year	50 trees	Nil as mine was closed during last year.	
6e	Cumulative no .of plants	250 trees to be planted during last plan period.	Nil accept naturaly grown bushes & Thorny trees.	
6f	Any other method of rehabilitation	None	Not applicable	

6g	Cost incurred on watch and care during the year	N A	Not applicable
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	Not specified	Not applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not specified	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not applicable	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not specified	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	50 trees around boundary line barriker zone.	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None	Not applicable

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not specified	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	As per consent condition of SPCB.	Being done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The matured area for backfilling will be available during this plan period of review of MP processed along with this MCDR.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Single grade	Manual sorting & Grading for sun drying to dispatch to lessee's processing plant located at Jaipur.	
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 after sun drying at site, washing & Screening if necessary before dispatch for petrolium ceramic industries.	
7d	Any beneficiation process at mines .	No	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	No issue for mineral conservation.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil generation.	Not applicable	
8b	Concurrent use or storage of topsoil	Not applicable	Not applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Being done	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not specified	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not applicable	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Except thorny bushes & naturally grown thorny trees available in the area. Lessee to plant 250 trees during last plan period.	No efforts made by lessee for plantation or growth of vegetation.	
8g	Survival rate	Not applicable	Not applicable	
8h	Water sprinkling on roads to control airborne dust	Work carried out intermittantly in the mine, how ever proposal for water sprinkling proposed.	No efforts seen.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The general aesthetic beauty in & around mine is good.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Not applicable	M/R submitted up to November 2018 A/R Submitted up to 2017-18	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The mining engineer has been stated Sh. Rakesh Chaudhry, Forman Certificate & Second class certificate holder.	No Geologist name given & neither employed.	Mine was closed for last one year.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Total lease area of 4.5 ha out side Forest & Covered under o/c working & Dump area stated as Nil.	Total lease area of 4.5 ha out side Forest & Covered under o/c working & Dump area stated as Nil is partially incorrect as lease area falls out side Forest but Covered under O/C working is 0.255 ha out of targetted 0.65 ha as per MP approved on 16/5/2013. Similarly O/B dumped over 0.23 ha presently in four scattered dumps.	

9d	Scrutiny of Annual return on afforestation	The Compensation paid for felling trees during the year stated as Rs. 20000/- during the year. The no of trees planted stated as 100 within ML & 60 nos outside ML with survival rate of 85% & 80%	The statement of no of trees planted stated as 100 within ML & 60 nos outside ML with survival rate of 85% & 80% is incorrect, as no trees observed as planted.	The work was closed for last one year.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject generation stated as Nil	A Total of reject generation of 468.03 T given in presently processed draft review of Mining Plan.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The ROM Production stated as Nil.	Found in order.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price of ROM stated as nil & Ex-Mine price of processed ore stated as Rs. 550.00.	Found in order.	
9h	Scrutiny of Annual return on fixed assets	The value of Fixed assets had not been given. The value of Paid up share capital given as Rs. 900000/-	The dead rent given as Rs. 5000/- which is in order as mine closed for last one year.	The mine closed for last one year.
9k	Scrutiny of Annual return on mining machineries	Jeep/ Tractor stated as mining machinery.	The HEMM used is deployed on contract basis as stated at the time of Site Inspection which appears genuine. Hence found in order.	

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