

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JSL-25/SE-11

Mine code : 97RAJ14004

- (i) Name of the Inspecting : **S012**) **Sharma H.C.**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. Pooran Singh
Official with
Designation
- (iv) Date of Inspection : 01/07/2021
- (v) Prev.inspection date : 07/03/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SAJIT(457/12)**
- (b) **Registration NO.** : **IBM/17329**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : JAISALMER
- Village : SAJIT
- Taluka : FATEHGARH
- Post office : FATEHGARH
- Pin Code : 345001
- FAX No. : 9413306995
- E-mail : DEEPSUNDRI@YAHOO.COM
- Phone : 9413306995
- (f) Police Station : Fatehgarh
- (g) First opening date : 01/01/2015
- (h) Weekly day of rest : SUN
2. Address for : S/o Shri Khub chand Khatri
correspondance : CL-17, Mahaveer Nagar,
Barmer 345001(Rajasthan)
3. (a) Lease Number : RAJ5172
- (b) Lease area : 4.89
- (c) Period of lease : 50
- (d) Date of Expiry : 09/10/2064
4. Mineral worked : SILICEOUS EARTH Main

5. Name and Address of the

Lessee : PARMESHWAR KHATRI S/O KHOOBCHAND KHATRI
SHASTRI NAGAR, BARMER
(RAJ.) PIN COAD- 344001
JAISALMER RAJASTHAN
Phone:09413306995
FAX :

Owner : PARMESHWAR KHATRI
Shastri Nagar, Mandi Road
Lokopada BARMER RAJASTHAN
Phone: 9414294745
FAX : Nil

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	10/06/2014
Plan/Scheme of Mining	:	MP review under 17(1) MCR 2016	09/04/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	6 Exploration trench in 2020-21	4 Exploration trench in 2020-21	Other 2 exploration trench will be done in 21-22
1b	Exploration over lease area for geological axis 1 or 2	Geological axis 1	Geological axis 1	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee himself	Lessee himself	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 2.86	G1 2.86	
1e	Balance reserve as on 01/04/20	60802 T	85112 T	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	Exploration work is lagging as per approved proposals.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	44N to 80S and 70W to 170W	44N to 10N and 125W to 150W	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top soil - 2m Mineral - 4m	Top soil - 2m Mineral - 4m	
2c	Stripping ratio or ore to OB ratio	1:0.502cum/ton	1:1.05 cum/ton	
2d	Quantity of topsoil generation in m3	4860m3	360m3	
2e	Quantity of overburden generation in m3	4860m3	360m3	O/B is 2m Soil cover

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The opencast method is best suited for such type of surface deposit.
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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	11380tonnes	360tonnes	
3c	Recovery of sailable/usable mineral from ROM production	10830tonnes (95%)	350tonnes	
3d	Quantity of mineral reject generation	569tonnes (5%)	10tonnes	
3e	Grade of mineral rejects generation and threshold value declared.	Not specified	Low silica content	
3f	Quantity of sub grade mineral generation.	No proposal	Not applicable	
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	No proposal	None	

3k	Provision of mining machineries in mineral benches	On hire Basis	On hire Basis
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, Top soil - 2m , Mineral - 4m	Yes, Top soil - 2m , Mineral - 4m
3m	Total area covered under excavation/pits	0.2845ha	0.0180ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.502cum/ton	1:1.05 cum/ton
3o	Total area put in use under different heads at the end of year	2.48ha	1.6160ha
3p	Production of ROM mineral during the last five year period as applicable	2016-17- 12600 t, 2017-18- 12810 t, 2018-19- 15000 t, 2019-20- 10840 t, 2020-21- 11380 t.	2016-17- 10975 t, 2017-18- 2455 t, 2018-19- 4881 t, 2019-20- 290 t, 2020-21- 360 t.
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The opencast method of mining is suited to the type of deposit.

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 backfill the waste in the voids.	Being done	
4b	Location of topsoil, OB and mineral reject dumps	No proposal	Not applicable	
4c	Number of dumps within lease area and outside of lease area	No proposal	Not applicable	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Not applicable
4e	Number of active and alive dumps.	No proposal	Not applicable
4f	Number of dead dumps.	No proposal	Not applicable
4g	Number of dumps established.	No proposal	Not applicable
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	None
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Nil
4j	Number of settling ponds	No proposal	Nil
4k	Specific comments of inspecting officer on waste dump management	Not applicable	There is no issue regarding waste dump management, as it is simultaneously backfilled in the excavated pit.

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.	Backfilling after full extraction.	As per proposals.	
5b	Area under backfilling of mined out area	0.1180ha	0.0030ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For backfilling and plantation	As per Proposals	
5d	Total area fully reclaimed and rehabilitated	0.1000ha	0.0500ha	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	The O/B excavated is symultaneously backfilled in excavated part of pit.
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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) .	No proposal	Not applicable	
6c	afforestation done (ha).	No proposal	None	
6d	No. of saplings planted during the year	No proposal	Nil	
6e	Cumulative no .of plants	No proposal	Nil	
6f	Any other method of rehabilitation	No proposal	None	
6g	Cost incurred on watch and care during the year	No proposal	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.97ha	0.4760ha	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	3712 sqm	1470sqm	

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	None
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal	Nil
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)	As per consent condition of EC	Being done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	Violation of Rule 26 (2) proposed to be pointed out for non submission of annual report of work towards proposals of PMCP.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not Specified	ROM Mineral dispatched after the dry. For this ROM is spread on surface for dry than accumulate and dispatched.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual
7c	Different grade of mineral sorted out at mines.	Not specified	Single grade
7d	Any beneficiation process at mines	Not Specified	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	There is no issue regarding mineral conservation in the mine.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil for only backfilling	As per plan Spreading on backfilled area	
8b	Concurrent use or storage of topsoil	Backfilling and plantation	Spreading on backfilled area	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed separate dumping with Simultaneous backfilling from second year	Backfilling is being done	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Simultaneous backfilling	Backfilling is being done	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Simultaneous backfilling	Backfilling is being done
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	50 nos trees to be planted	Nil planted
8g	Survival rate	Not specified	Nil
8h	Water sprinkling on roads to control airborne dust	Proposed	being done
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	Aesthatic beauty was satisfactory in and around the mine.

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 recieved up to June 21. The A/R recieved for the year 2020-21.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Rajesh Kumar Naval (Part time Mining Engineer)	Geologist not employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Detail are given	Found in order	

9d	Scrutiny of Annual return on afforestation	50 trees inside and 20 trees outside planted with survival of 30%.	No plantation done by lessee were observed.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	10 T reject of D Grade stated.	Found in order
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The opening Stock 8870.00 T, Production 350 T, despatch 345 T & Closing Stock 8875.47 T	Found in order
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The Ex- mine price stated as Rs. 570/- per Tonne and cost of production is same.	The cost of production not matching with the details furnished.
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets stated as Nil.	The depreciatin of Rs. 30/- per tonne stated in Part VII.
9k	Scrutiny of Annual return on mining machineries	One back hoe of 0.300cum capacity	One back hoe of 0.300cum capacity

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