

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/JSL-23/SE-09

**Mine code :** 97RAJ14002

- (i) Name of the Inspecting : **S012** ) **Sharma H.C.**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. Jasveer Singh  
Official with  
Designation
- (iv) Date of Inspection : 30/06/2021
- (v) Prev.inspection date : 28/01/2020

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SAJIT(217/13)**
- (b) **Registration NO.** : **IBM/16828/2013**
- (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 : 345021  
FAX No. : 9414762777  
E-mail : reactivesilica@gmail.com  
Phone : 9414762777
- (f) Police Station : Fatehgarh
- (g) First opening date : 01/12/2014
- (h) Weekly day of rest : SUN
2. Address for : Sh. Ashok Khatri S/o Late Shri Tikam Chand Khatr  
correspondance : Enko Ki Pol, Pokaran  
Dist Jaiselmer
3. (a) Lease Number : RAJ5170
- (b) Lease area : 4.74
- (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 : ASHOK KUMAR KHATRI  
Inko ki Pol Pokaran  
JAISALMER RAJASTHAN  
Phone:  
FAX :

Owner : ASHOK KUMAR KHATRI  
Inko ki Pol Pokaran  
JAISALMER RAJASTHAN  
Phone:  
FAX :

## Mining Engineer

Name : Shri Rajesh Nawal, Part Time  
Qualification : BE(Mining)  
Appointment/ : 01/01/2021  
Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	14/03/2014
Plan/Scheme of Mining	:	MP review under 17(1) MCR 2016	25/01/2019

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed	Nil	
1b	Exploration over lease area for geological axis 1 or 2	No exploration was proposed	None	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Not applicable	
1e	Balance reserve as on 01/04/20	60802 T	85112 T	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The entire lease area has been explored.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	100N to 145N and 7.5W to 100W	140N to 155N and 7.5E to 20E	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top soil - 4m Mineral - 4m	Top soil - 7m Mineral - 4m	
2c	Stripping ratio or ore to OB ratio	1:1.19cum/ton	1:2.41 cum/ton	
2d	Quantity of topsoil generation in m3	Not specified	Not applicable	
2e	Quantity of overburden generation in m3	13520 m3	1600 m3	

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc Not applicable The opencast method adopted in this 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	13900 tonnes	700 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	12510 tonnes (90%)	673 tonnes	
3d	Quantity of mineral reject generation	1390 tonnes (10%)	27 T	
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	Not applicable	
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	OFM	OFM	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	None	
3j	Provision of drilling and blasting in mineral benches	No Proposal	None	

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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	Yes
3m	Total area covered under excavation/pits	0.3475ha	0.0200ha
3n	Ore to OB ratio for the pit/mine during the year.	1:1.19cum/ton	1:2.41 cum/ton
3o	Total area put in use under different heads at the end of year	2.425ha	2.1ha
3p	Production of ROM mineral during the last five year period as applicable	2016-17- 12480 T, 2017-18- 14910 T, 2018-19- 15270 T, 2019-20- 13120 T, 2020-21- 13900 T.	2016-17- 6187 T, 2017-18- 7350 T, 2018-19- 3210 T, 2019-20- 2010 T, 2020-21-700 T.
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The open cast other than fully mechanised method has been adopted.

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Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	The symultaneous backfilling of waste proposed.	The symultaneous backfilling of waste practiced.	
4b	Location of topsoil, OB and mineral reject dumps	Not applicable	Not applicable	
4c	Number of dumps within lease area and outside of lease area	Single dump	Single dump	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side UPL	Out side UPL
4e	Number of active and alive dumps.	Single dump	Backfilling of waste practised.
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.	Garland drain proposed	Garland drain provided
4i	Length of Retaining wall or garland drain all along dumps	110m garland drain	20m garland drain provided
4j	Number of settling ponds	No proposal	Not applicable
4k	Specific comments of inspecting officer on waste dump management	Not applicable	Waste had been backfilled in the excavated pit synultaneously.

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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 plan proposals	
5b	Area under backfilling of mined out area	0.1864ha	0.0130ha	
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	0.0400ha	0.0740ha	

5e General remarks Not applicable The generated waste has  
of inspecting been backfilled in the  
officers on mined out area.  
backfilling and  
reclamation etc.

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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	Nil	
6c	afforestation done (ha).	No proposal	Nil	
6d	No. of saplings planted during the year	No proposal	Not applicable	
6e	Cumulative no .of plants	About 50 plants during Plan Period.	About 50 survived	
6f	Any other method of rehabilitation	No proposal	None	
6g	Cost incurred on watch and care during the year	Not specified	Not applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	1.31ha	1.11ha	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.9059ha	0.5080ha	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	50plant in the area of 0.02ha	50plant in the area of 0.02ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	None
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil
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)	Not specified	Not applicable
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The annual report of reclamation & rehabilitation not submitted, for which VL of rule 26(2) is proposed to be issued.

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Mineral dispatched after the dry. For this ROM is spread on surface for dry than accumulate and dispatched.	Being done
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	Not applicable
7d	Any beneficiation process at mines	Not Specified	Not applicable
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	There is no mineral conservation issue in the mine.

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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	Being done	
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	

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8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Simultaneous backfilling	Simultaneous backfilling
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Simultaneous backfilling	Simultaneous backfilling
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	50 plants per year	50 plants within ML & 20 planted out side lease area.
8g	Survival rate	Not specified	30%
8h	Water sprinkling on roads to control airborne dust	Not Specified	Every second day Water sprinkling on road.
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.

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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	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	Mining Engineer & Manager- Sh. Rajesh Kumar Naval	Found in order	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Detail are given	Found O K
9d	Scrutiny of Annual return on afforestation	50 trees inside and 20 trees outside planted.	Found in order.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject generation - 27 T of D grade	Reject generation - 27 T of D grade
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock at mine head- 2857.980, production - 673.000 & closing stock -2350.72 T after despatch of 1180.26 T	Found in order
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price is 605.31/- per ton and production cost is 605.31/- (2020-21)	The cost of production stated as Rs. 605.31 per T, which does not match with reference to details of expenses. furnished.
9h	Scrutiny of Annual return on fixed assets	The value of Fixed Assets- Nil	The excavator proposed on hire bassis.
9k	Scrutiny of Annual return on mining machineries	One back hoe of 0.300cum capacity	One back hoe of 0.300cum capacity

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**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