

**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 : **DJ03** ) **DILIP JAIN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sri Ashok Khatri, Lessee and Sri Rajesh Navel, Mining  
Official with  
Designation
- (iv) Date of Inspection : 28-JAN-20
- (v) Prev.inspection date : 25-NOV-18

**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 :  
Pin Code :  
FAX No. :  
E-mail : [reactivesilica@gmail.com](mailto:reactivesilica@gmail.com)  
Phone : 9414762777
- (f) Police Station : Fatehgarh
- (g) First opening date : 01-DEC-14
- (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-OCT-64
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/ :  
Termination date

6. Date of approval of Mining : Fresh under rule 22 MCR1960 14-MAR-14  
Plan/Scheme of Mining MP review under 17(1) MCR 2016 25-JAN-19

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Not applicable.	NIL.
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.	NIL.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable as no proposal of exploration.	Not applicable.	NIL.
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 12/03/2014, the position of reserve and resource was 76710 and 65625 tonnes respectively.	The position of reserve and resource as on 01/04/2019 was 46299 and 65625 tonnes respectively.	Depletion of 30411 tonnes from 2014-15 to 2018-19.
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	105N to 298N and 8W to 120W.	150N to 298 N and 40W to 160W.	Deviation incorporated in the RMP approved for the period five years i.e. 2019-20 to 2023-24.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Overburden - 2 Benches have been found m Mineral - 3m as per proposal.		No top soil. Only sandy soil.
2c	Stripping ratio or ore to OB ratio	1:0.67cum/ton	1:0.68 cum/ton	NIL.
2d	Quantity of topsoil generation in m3	No proposal.	Not applicable.	NIL.
2e	Quantity of overburden generation in m3	10180m3	2188m3 (3500 ton)	NIL.
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	15270tonnes	3210 tonnes	Low production is due to low market demand.
3c	Recovery of sailable/usable mineral from ROM production	13743 tonnes (90%)	3210 tonnes (100%)	No reject generation as anticipated.
3d	Quantity of mineral reject generation	1527 tonnes (10%)	NIL	No reject generation as anticipated.
3e	Grade of mineral rejects generation and threshold value declared.	No specific proposal of grade of Mineral Reject.	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.	Manual method has been adopted.	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	No proposal of drilling and blasting.	Not applicable as no proposal.	NIL.
3k	Provision of mining machineries in mineral benches	Excavator, Tractor- Trolley, water pump fitted on the tractor.	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 1 to 2 mts in OB and 2 mts in Mineral.	Height of the benches has been maintained as per proposal.	NIL.
3m	Total area covered under excavation/pits	As per approved document dated 12/03/2014, an area of 2.18 Ha has been proposed to put in use at the end of the plan period i.e. 2018-19.	At the end of the plan period i.e. 2018-19 an area of 1.04 Ha.(including reclaimed area of 0.61 Ha.) has been covered under excavation.	NIL.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.67cum/ton	1:0.68 cum/ton	NIL.
3o	Total area put in use under different heads at the end of year	As per approved document dated 12/03/2014, total area of 2.75 Ha has been proposed to put in use at the end of the plan period i.e. 2018-19.	As reported an area of 1.135 ha. area has been put under different heads.	NIL.

3p	Production of ROM mineral during the last five year period as applicable	2014-15: 9600 2015-16: 12150 2016-17: 12480 2017-18: 14910 2018-19: 15270	2014-15: 2550 2015-16: 11114 2016-17: 6187 2017-18: 7350 2018-19: 3210	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)	The simultaneous backfilling has been proposed instead of waste dumping.	Simultaneous backfilling is in practice and an area of 0.61 Ha. has been backfilled so far.	Simultaneous backfilling has been proposed from the year 2015-16.
4b	Location of topsoil, OB and mineral reject dumps	During reporting year i.e. 2018-19 simultaneous backfilling has been proposed instead of waste dumping.	Simultaneous backfilling has been carried out during reporting year.	NIL.
4c	Number of dumps within lease area and outside of lease area	Single Dump.	No waste dumps within lease area. Waste generated has been backfilled.	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	The simultaneous backfilling has been proposed instead of waste dumping.	Simultaneous backfilling is in practice and an area of 0.61 Ha. has been backfilled so far.	For reporting year no dumping of waste has been proposed.
4e	Number of active and alive dumps.	One.	No waste dump as waste generated has been backfilled.	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 during the reporting year.	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 backfill in mined out pit area.	Waste has been backfilled in mined out area.	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.	The simultaneous backfilling has been proposed after full extraction of mineral.	Simultaneous backfilling is in practice and an area of 0.61 Ha. has been backfilled so far.	Simultaneous backfilling has been proposed from the year 2015-16.
5b	Area under backfilling of mined out area	An area of 0.17 Ha. has been proposed to backfilled during the reporting year.	During the reporting year an area of 0.0200hect has been backfilled. Total backfilled area was 0.61 Ha.	Less area backfilled due to less generation of waste.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Backfilling.	Backfilling.	Soil is in the form of sandy soil.
5d	Total area fully reclaimed and rehabilitated	An area of 0.62 Ha. has been proposed for reclamation.	An area of 0.6100hect has been reclaimed.	NIL.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Proposal of backfilling has been envisaged after full extraction of mineral.	Generated waste has been backfilled in the mine out area.	No issues related to backfilling.
----	--	--	---	-----------------------------------

#### 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).	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) .	Not specified.	Area of 0.61 ha has been reclaimed.	NIL.
6c	afforestation done (ha).	0.0150 Ha.	0.0150 Ha.	NIL.
6d	No. of saplings planted during the year	50 trees.	50 trees within lease area and 80 trees outside lease area.	NIL.
6e	Cumulative no .of plants	250 number of plants during the plan period.	190 trees within lease area and 140 outside lease area.	As per AR 2015-16 to 2018-19.
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	0.1700hect	0.0200hect	NIL.



6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	10180m3	2188m3 (3500 ton)	NIL.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation 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.	Monitoring has been carried out for the reporting year.	NIL.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Planation over 0.015 ha with 50 numbers of saplings has been proposed.	An area of 0.015 has been planted with 500 numbers of saplings within lease area.	The annual return of PMCP under rule 26 has not been submitted for the year 2018-19. Violation of same issued.
----	---	--	---	--

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not specified for grad 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)	Separate removal and utilization of topsoil for backfilling	As per plan Spreading on backfilled area.	Soil is in the form of sandy soil.
8b	Concurrent use or storage of topsoil	Backfilling.	Generated soil has been backfilled.	NIL.

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal as simultaneous backfilling has been proposed.	Backfilling has been carried out.	NIL.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Simultaneous backfilling.	Backfilling is being done.	NIL.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	An area of 0.17 Ha. has been proposed to backfilled during the reporting year.	During the reporting year an area of 0.0200hect has been backfilled.	Total backfilled area was 0.61 Ha.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	50 trees	50 trees within lease area and 80 trees outside lease area.	NIL.
8g	Survival rate	Not Specified	30% survival rate.	Asper AR 2018-19.
8h	Water sprinkling on roads to control airborne dust	Not Specified	Water sprinkling has been observed.	NIL.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	It is proposed to plant 50 numbers of saplings.	Within lease area 50 and outside lease area 80 saplings has been planted.	Aesthetic beauty of the mine is maintained.

---

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	No information has been furnished.	Mining engineer was present at the time of the inspection.	NIL.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already exploited & abandoned by opencast (O/C) mining: 0.758 Ha, Covered under current (O/C) Workings: 0.107 Ha, Reclaimed and rehabilitate: 0.020 Ha., Occupied by plant and buildings etc: 0.015 Ha, Other purpose: 1.0 Ha. etc.	The information furnished found incorrect.	Violation of MCDR issued.
9d	Scrutiny of Annual return on afforestation	50 trees inside and 80 trees outside lease area.	Information of afforestation furnished appears to correct.	NIL.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Information on Mineral reject generation furnished is 300 tonnes.	No mineral reject has been generated.	Violation of MCDR issued.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: NIL and graded stock: 2608.865 tonnes.	Appears to be in order.	NIL.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price & production cost is Rs.634.26	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	One back hoe of 0.300cum capacity etc.	It was explained to lessee to furnish the details of all the mining machineries.	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 26(2)	28-FEB-20			
MCDR17	Rule 45(7)(a)	28-FEB-20			

**Date :**

**(DILIP JAIN)**

Indian Bureau of Mines