

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/JAISAL-29/SE-15

**Mine code :** 97RAJ14015

- (i) Name of the Inspecting : **S012** ) **Sharma H.C.**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. Ishwar Singh Rathore, Lessee Himself  
Official with  
Designation
- (iv) Date of Inspection : 28-FEB-20
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SAJIT**
- (b) **Registration NO.** : **IBM/18993/2014**
- (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. : N A  
E-mail : tanotraijs@gmail.com,tano  
Phone : 742638809, & 6375580889
- (f) Police Station : Fatehgarh
- (g) First opening date : 21-JAN-17
- (h) Weekly day of rest : SUN
2. Address for : Sh. Ishwer Singh S/O Sh Magan Singh, 849 Gokuldh  
correspondance Society, Quarter no 9, Sector -8, Khudi Bhagtas  
Housing Board, Jodhpur, Pin- 342005
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 : ISHWAR SINGH RATHORE  
VILL JAYANI TEHSIL- JAYAL  
NAGPUR RAJASTHAN  
Phone:  
FAX :

Owner : Ishwar Singh Rathore  
Sh. Ishwar Singh Rathore  
849, Gokuldharm Society, Qtr  
no 9, Sector- 8,  
Khudibhagtasani Hous Brd  
JODHPUR RAJASTHAN  
Phone: 742638809, 6375  
FAX : N A

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	A total of one prospecting B/H to a depth of 10 m the First year of the plan (i, e, the year 2017-18.	Single Borehole made had proved the continuity of China Clay Bed. The mineral has a capping of Benotonite mineral.	
1b	Exploration over lease area for geological axis 1 or 2	No specified proposal	Not applicable	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee himself, Expenses- Rs. 40000/- per bore hole.	Single Borehole made had proved the continuity of China Clay Bed in depth. The mineral has a capping of Benotonite mineral & dug B/H proves the continuity.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No specified proposal	Not applicable	
1e	Balance reserve as on 01/04/20	186374.8 T in 121 & 122 category.	The reserves of entire potential mineralised area is required to upgrade in G-! category. as reserves given in 121 & 122 category only.	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	Single Borehole made had proved the continuity of China Clay Bed in depth. The mineral has a capping of Benotonite mineral & dug B/H proves the continuity. The entire potential mineralised area is required to upgrade the reserve in G-! category as per rule 12(4) of the MCDR 2017.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
--------	------	-----------	-------------	---------

2a	Location of development w.r.t. lease area	Near Boundary Pillar B	Being done as proposed.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes separate bench in O/B & in mineral Proposed.	Yes separate bench in O/B (which is the minor mineral Bentonite) & in mineral Provided	The grade of minor mineral should be assessed & included in lease if found suitable for better mineral conservation.
2c	Stripping ratio or ore to OB ratio	1 : 0.100	Not reported	
2d	Quantity of topsoil generation in m3	There is no usable top soil, 1301 T waste generated.	No record of waste generated made available.	
2e	Quantity of overburden generation in m3	1301 T waste only	Not reported	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The opencast method of mining adopted here which is suitable to the type of deposit.	

### Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit Working proposed	Single Pit Working made	
3b	Quantity of ROM mineral production proposed	22001.4 T during 2018-19.	Not reported	
3c	Recovery of saleable/usable mineral from ROM production	About 55 % of ROM	About 60 % as reported.	
3d	Quantity of mineral reject generation	6 % waste	About 10 % waste	
3e	Grade of mineral rejects generation and threshold value declared.	Not given in Approved mining plan.	Not applicable	

3f	Quantity of sub grade mineral generation.	About 2580.3 T	Not reported, partly sub grade sold as fertiliser.
3g	Grade of sub grade mineral generation	Not Reported in AMP	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 Drilling Blasting Proposed	Not applicable
3k	Provision of mining machineries in mineral benches	None	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes 2m to 4m bench height proposed in mineral & in Waste.	Yes being done
3m	Total area covered under excavation/pits	0.6 ha	Approximately same as reported
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.100	Not Reported
3o	Total area put in use under different heads at the end of year	1.15 ha	0.14 ha as reported.

3p	Production of ROM mineral during the last five year period as applicable	The Monthly returns submitted up to January 2020 with production shown as 280 T and Annual returns had not been submitted for 2018-19..	Not applicable
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The method of mining is Opencast manual which is suitable 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)	No useable top soil found, O/B Waste dumping proposed separately.	Being done as proposed.	
4b	Location of topsoil, OB and mineral reject dumps	Top Soil (non Usable waste) proposed near Boundary Pillar 'D'	Being done as proposed.	
4c	Number of dumps within lease area and outside of lease area	Single within lease.	Single within lease.	
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	Single	
4f	Number of dead dumps.	None	None	
4g	Number of dumps established.	No proposal	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	Only Garland drain proposed.	Provided.	

4i	Length of Retaining wall or garland drain all along dumps	Not estimated in AMP	About 40 m	
4j	Number of settling ponds	No Proposal	Not applicable	
4k	Specific comments of inspecting officer on waste dump management	Not applicable	There is no issue regarding Waste dump management.	

#### 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	Full extraction	
5b	Area under backfilling of mined out area	No Proposal	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	Not applicable	
5d	Total area fully reclaimed and rehabilitated	No Proposal	Not applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	There is no matured area available for backfilling & reclamation Etc.	

#### 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) .	Nil	Nil
6c	afforestation done (ha).	No quantified proposal of plantation given each year wise basis.	None planted nor survived due to high saline nature of O/B waste.
6d	No. of saplings planted during the year	No quantified proposal made.	Not applicable
6e	Cumulative no .of plants	No information given in approved mining plan.	Not reported
6f	Any other method of rehabilitation	No Proposal	Not applicable
6g	Cost incurred on watch and care during the year	No Proposal	Not applicable
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No Proposal	Not applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not applicable	Not applicable as there is no backfilled area.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Not applicable



6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposal	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposal	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring regularly 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 annual report of wok carried out towards Reclamation & rehabilitation required to be submitted before 1 July each year has not been submitted.

---

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Production of 22001.4 T proposed to be taken.	No regular Monthly returns nor the annual return has been submitted.	
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	

---

7d	Any beneficiation process at mines	No proposal	Not applicable
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	The minor mineral Bentonite occurs as O/B & Bottom of pit is having China Clay, which may be included in the lease for mineral conservation if its grade suits after mineral analysis for its marketing.

## Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	The soil is non usable due to its high salinity & treated as waste (It is Minor Mineral Bentonite)	No top soil	
8b	Concurrent use or storage of topsoil	Not applicable	Not applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps proposed for Waste, Subgrade & Mineral	Separate dumps provided for Waste, Subgrade & Mineral	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	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)	Green belt proposed along boundary lines but no quantified proposal of plantation given.	No plantation observed
8g	Survival rate	Not reported	No plantation observed
8h	Water sprinkling on roads to control airborne dust	Yes, water tanker deployed	being done
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The general aesthetic beauty in & around the mine was satisfactory.

---

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Not applicable	The Monthly returns of the mine submitted till January 2020 where in production of 280 Tonnes reported. The annual return of the mine for the year 2018-19 has not been submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The A/R for the year 2018-19 has not been submitted.	Not applicable	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The A/R for the year 2018-19 has not been submitted.	Not applicable	
9d	Scrutiny of Annual return on afforestation	The A/R for the year 2018-19 has not been submitted.	Not applicable	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	The A/R for the year 2018-19 has not been submitted.	Not applicable
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The A/R for the year 2018-19 has not been submitted.	Not applicable
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The A/R for the year 2018-19 has not been submitted.	Not applicable
9h	Scrutiny of Annual return on fixed assets	The A/R for the year 2018-19 has not been submitted.	Not applicable
9k	Scrutiny of Annual return on mining machineries	The A/R for the year 2018-19 has not been submitted.	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

**Date :**

**(Sharma H.C.)**

Indian Bureau of Mines