

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/JAISAL-28/SE-14

**Mine code :** 97RAJ14016

- (i) Name of the Inspecting : **G021** ) **D R GURJAR**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. Ishwar Singh Rathore, Owner's Representative  
Official with  
Designation
- (iv) Date of Inspection : 11-FEB-21
- (v) Prev.inspection date : 06-MAR-20

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SAJIT(140/2013)**
- (b) **Registration NO.** : **IBM/18067/2014**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : JAISALMER
- Village : Sajit
- Taluka : Fatehgarh
- Post office : Fatehgarh
- Pin Code : 345027
- FAX No. : 9461155999
- E-mail : tanotrajms@yahoo.com;
- Phone : 9461155999
- (f) Police Station : Fatehgarh
- (g) First opening date : 09-JAN-17
- (h) Weekly day of rest : SUN
2. Address for : Shri Balbeer Singh Rathore  
correspondance : Village-Jayani, Post-Kathali,  
Tehsil-Jayal, Distt.-Nagour(Raj) 341001
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 : BALVEER SINGH RATHORE  
NAGOUR RAJASTHAN  
Phone:  
FAX :
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	No proposal during the previous year i.e. 2018-19.	None	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal not given for the year 2019-20.	None	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal given in the approved mining plan for the year 2019-20.	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No such proposal given in the approved mining plan (approved on 08.12.2014)	None	Current inspection has been carried out for Review of Mining Plan(RMP). As per approved RMP (Approved on 17.03.2021) out of total lease area 4.89 hect. (Area under G1 level- 1.63 hect., G2+G3 level-3.26 hect.). To upgrade from G3/G2 level into G1 level exploration proposal given during the year 2021-22.
1e	Balance reserve as on 01/04/20	No specific proposal given in this regard.	As per recent approved RMP (approved on 17.03.2021) The position of reserve as on 01.01.2021 111-44001 tonnes, 122-63525 tonnes.	Nil
1f	General remarks of inspecting officers on geology, exploration etc			No issue observed related to geology & exploration.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Mining development was proposed North Eastern part of the lease area & Central part of the lease area.	Mine development has been carried out in North Eastern part of the lease area.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes proposed.	As per proposal	Nil
2c	Stripping ratio or ore to OB ratio	2019-20: 1:2.219 (T:T)	2019-20: 1:1.04 (T:T)	As reported in review chapter of Review of mining plan.
2d	Quantity of topsoil generation in m3	2018-19: 717 T	Approximately 200 T	Nil
2e	Quantity of overburden generation in m3	2019-20: 14243 tonnes	2019-20: 860 tonnes	As reported in review chapter of Review of mining plan.2019-20:
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development was proposed in two location but mine deveploement has only been carried out in North Eastern part of the lease area.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two	One	Nil
3b	Quantity of ROM mineral production proposed	2019-20 10527 T	2019-20 896.58 T	Nil
3c	Recovery of sailable/usable mineral from ROM production	70 % was anticipated.	All ROM mineral sailable.	Nil
3d	Quantity of mineral reject generation	No proposal	Not observed	Nil

3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not generated	Nil
3f	Quantity of sub grade mineral generation.	2019-20 1052.8T	As per submitted annual return 2019-20, All ROM mineral has been dispatched. No subgrade mineral generated.	Nil
3g	Grade of sub grade mineral generation	Not specified, however proposal given that subgrade mineral shall be mixed with high grade to make marketable/Avg grade.	No subgrade mineral was observed.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	None	Nil
3j	Provision of drilling and blasting in mineral benches	No provision	No drilling & blasting was observed.	Nil
3k	Provision of mining machineries in mineral benches	Manual mining and loading of mineral into dumpers.	As per proposal	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes as per proposal	Nil

3m	Total area covered under excavation/pits	It was proposed that at the end of mining plan period i.e. 2020-21 total 0.8980 ha area will be covered under mining.	Not reported in AR 2019-20 correctly.	Violation of Rule 45(7) of MCDR 2017 issued vide letter dated 02.03.2021.
3n	Ore to OB ratio for the pit/mine during the year.	2019-20: 1:2.219 (T:T)	2019-20: 1:1.04 (T:T)	As reported in review chapter of Review of mining plan.
3o	Total area put in use under different heads at the end of year	At the end of mining plan period total 2.0193 hect. area will be utilised under different heads.	As per recent approved RMP total area under excavation/pits is 0.63 hect. area.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2016-17:5508T 2017-18:5943T 2018-19:8282T 2019-20:10527T, 2020-21:14418T	2016-17:0T 2017-18:7439.3T 2018-19:13534.17T 2019-20:896.58T, 2020-21:24.450T(up to Dec. 2020)	This is new mine. The lease was executed on 05.01.2017 & registered on 09.01.2017, hence year 2016-17 has been considered as first year of mining plan.
3q	General remarks of inspecting officers on method of mining etc.			Method of mining is opencast manual mining method which is suitable to the type of deposit.

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes proposal given for separate dumping of OB, pit. topsoil & subgrade mineral.	No sobgrade generated. OB is being used for backfilling of mined out	Nil

4b	Location of topsoil, OB and mineral reject dumps	Top soil dumping was proposed near Pillar A, Subgrade dumping proposed near Pillar B & OB dumping proposed near pillar C.	No dumping observed near pillar A,B & C. No subgrade generated. OB is being used for backfilling of mined out pit. Top soil spread over backfilled area.	Nil
4c	Number of dumps within lease area and outside of lease area	03	No dumps was observed however some siliceous earth mineral was spread in central part of the lease area & near boundary pillar D to remove moisture content.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of UPL	No dumps was observed.	Nil
4e	Number of active and alive dumps.	03	No dumps was observed.	Nil
4f	Number of dead dumps.	No proposal	None	Nil
4g	Number of dumps established.	No such proposal given	None	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	During the IV year(2019-20) total 83m retaining wall proposed at the toe of dumps.	No dumps was observed hence not required.	Nil
4i	Length of Retaining wall or garland drain all along dumps	During the IV year(2019-20) total 83m retaining wall proposed at the toe of dumps.	No dumps was observed hence not required.	Nil
4j	Number of settling ponds	No proposal	None	Nil
4k	Specific comments of inspecting officer on waste dump management			No issue was observed related to waste dump management.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal of backfilling given	OB is being used for backfilling of mined out area after full extraction of mineral.	Nil
5b	Area under backfilling of mined out area	No proposal of backfilling given.	OB is being used for backfilling of mined out area after full extraction of mineral at North East part of the lease area.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Stacking proposal given near boundary pillar A & in future it will be used to spread over the backfilled area for afforestation over it.	No top soil satcking was observed and it was spread over backfilled area.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal given	No area has been fully reclaimed.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			OB is being used for backfilling of mined out area after full extraction of mineral at North East part of the lease area.

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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).	As per MCDR 2017, PMCP report shall be submitted up to 1 July for the previous financial year.	PMCP report for the year 2019-20 has not been submitted by the lessee.	Violation of rule 26(2) of MCDR 2017 issued to the lessee for non submission of PMCR report for the year 2019-20 vide this office letter dated 02.03.2021.
6b	Area available for rehabilitation (ha) .	No proposal given	None	Nil



6c	afforestation done (ha).	0.0225 ha. area	Not observed.	During the year 2019-20 total 25 saplings was proposed over an area 0.0225 hect. but no such plantation was observed, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 02.03.2021.
6d	No. of saplings planted during the year	25 nos.	Not observed.	During the year 2019-20 total 25 saplings was proposed over an area 0.0225 hect. but no such plantation was observed, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 02.03.2021.
6e	Cumulative no .of plants	At the end of IV year(2019-20) total 100 sapling proposed.	Not reported.	Violation of rule 26(2) of MCDR 2017 issued to the lessee for non submission of PMCR report for the year 2019-20 vide this office letter dated 02.03.2021.
6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	Rs. 2500 proposed	Not reported	Violation of rule 26(2) of MCDR 2017 issued to the lessee for non submission of PMCR report for the year 2019-20 vide this office letter dated 02.03.2021.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No such proposal given	None	Nil

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal given	OB is being used for backfilling of mined out area after full extraction of mineral at North East part of the lease area.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal	None	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	It was proposed that at the end of mining plan period pit will be converted into water reservoir.	Not reported	Violation of rule 26(2) of MCDR 2017 issued to the lessee for non submission of PMCR report for the year 2019-20 vide this office letter dated 02.03.2021.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	None	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	25 nos. of sapling proposed over an area 0.0225 ha area.	Not observed.	During the year 2019-20 total 25 saplings was proposed over an area 0.0225 hect. but no such plantation was observed, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 02.03.2021.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal	None	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation	Plantation	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Carried out.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Violation of rule 26(2) of MCDR 2017 issued to the lessee for non submission of PMCR report for the year 2019-20 vide this office letter dated 02.03.2021.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	All ROM mineral will be dispatched after mixing of subgrade & high garde siliceious earth	As per proposal	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	N/A	Nil
7c	Different grade of mineral sorted out at mines.	No proposal	Not applicable	Nil
7d	Any beneficiation process at mines .	No proposal	Not applicable	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue was observed related to mineral conservation.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Proposal given for separate removal of top soil.	Top soil separate removed during the mining.	Nil
8b	Concurrent use or storage of topsoil	Storage of top soil	Used to spread over backfilled area.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal given	OB is being simultaneously used for backfilling. No mineral reject was observed.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal given	OB/Waste is being simultaneously used for backfilling for restoring the land.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal given.	OB/Waste is being simultaneously used for backfilling for restoring the land.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	25 nos. sapling proposed every year.	Not observed.	During the year 2019-20 total 25 saplings was proposed over an area 0.0225 hect. but no such plantation was observed, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 02.03.2021.
8g	Survival rate	Not specified	Not reported.	During the year 2019-20 total 25 saplings was proposed over an area 0.0225 hect. but no such plantation was observed, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 02.03.2021.

8h	Water sprinkling on roads to control airborne dust	Proposed	Observed	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty is satisfactory in and around mine area.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per MCDR 2017 annual return shall be submitted up to 30 Jun for the previous year. Monthly return shall be submitted up to 10th day of each month for the previous month.	Annual return for the year 2019-20 has been submitted. Monthly return for the month up to Jan 2021 has been submitted.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given.	Some discrepancies observed.	Violation of Rule 45(7) issued vide letter dated 02.03.2021.
9d	Scrutiny of Annual return on afforestation	Plantation survival rate shown '0'.	Discrepancies observed.	Violation of Rule 45(7) issued vide letter dated 02.03.2021.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject generated.	No mineral reject observed.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Detail given	Seems to be correct.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Rs. 450 per ton	Seems to be correct.	Nil

9h	Scrutiny of Annual return on fixed assets	Rs.2167500	Seems correct.	Nil
9k	Scrutiny of Annual return on mining machineries	Detail given	Seems correct.	Nil

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**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 11(1)	02-MAR-21			
MCDR17	Rule 26(2)	02-MAR-21			
MCDR17	Rule 45(7)(a)	02-MAR-21			

**Date :**

**(D R GURJAR)**

Indian Bureau of Mines