

**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 : **G021**) **D R GURJAR**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. Poor Singh, Owner's representative
Official with
Designation
- (iv) Date of Inspection : 07-MAR-20
- (v) Prev.inspection date : 26-FEB-19

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-JAN-15**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **S/o Shri Khub chand Khatri**
Res- Shashtri Nagar
Barmer 344001
3. (a) **Lease Number** : **RAJ5172**
- (b) **Lease area** : **4.89**
- (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 : 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-JUN-14
Plan/Scheme of Mining : MP review under 17(1) MCR 2016 09-APR-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No backlog of previous year	None	Nil
1b	Exploration over lease area for geological axis 1 or 2	During the last year 2018-19, no exploration proposed.	None	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	During the last year 2018-19, no exploration proposed.	None	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal given during the last year	None during the year 2018-19.	As per recent approved review of mining plan(approved on 09.04.2019) the area under G1 is 2.03 Hect, G2 is 0.76 hect. & G3 is 2.1031 hect. Proposal of exploration given to convert 2.86 hect area (G2+G3) into G1 level during the year 2020-21.
1e	Balance reserve as on 01/04/20	As per approved Review of mining plan(approved on 09.04.2019) the reserve as on 01.04.2020 is 80294 tonnes.	As per approved Review of mining plan (approved on 09.04.2019) the reserve as on 01.04.2020 is 80294 tonnes.	Nil
1f	General remarks of inspecting officers on geology, exploration etc			No issue was 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	During the year 2018-19 mining was proposed near pillar D towards North Western part of the lease area.	Mine development has been carried out on on proposed location during the year 2018-19.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes proposed in OB & mineral	As per proposal	Nil
2c	Stripping ratio or ore to OB ratio	2018-19: 1:1.04	2018-19: 1:1.004	Nil
2d	Quantity of topsoil generation in m3	No top soil generation proposal	Nil	Nil
2e	Quantity of overburden generation in m3	15600 cubic meter	4500 tonnes	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development has been carried out by open cast mining method which is best suited to the type of deposit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Nil
3b	Quantity of ROM mineral production proposed	2018-19: 15000T	2018-19: 4481.36 T	Nil
3c	Recovery of sailable/usable mineral from ROM production	90%	Almost as per proposal	Nil
3d	Quantity of mineral reject generation	2018-19: 1500 tonne	2018-19: 400 tonne	Nil

3e	Grade of mineral rejects generation and threshold value declared.	Not specified	Low silica content	Nil
3f	Quantity of sub grade mineral generation.	No proposal	Not generated	Nil
3g	Grade of sub grade mineral generation	No proposal	Not applicable	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 proposal	None	Nil
3k	Provision of mining machineries in mineral benches	Excavator, dumper & loader	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 year 2018-19 total 2.25 hect. area under mining.	Approximately 1.0 hect. area has been covered under mining so far.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	2018-19: 1:1.04	2018-19: 1:1.004	Nil
3o	Total area put in use under different heads at the end of year	2.365 hect.	Approximately 2.0 hect. including mineral stacking.	Nil

3p	Production of ROM mineral during the last five year period as applicable	2014-15:11130 T, 2015-16: 12510 T, 2016-17: 12600 T, 2017-18: 12810T, 2018-19: 15000 T, 2019-20: 10840T	2014-15: 604 T, 2015-16: 9874 T, 2016-17: 9877 T, 2017-18: 2210T, 2018-19: 4481.36 T, 2019-20: 180 T(Till Jan 2020)	Nil
3q	General remarks of inspecting officers on method of mining etc.			Method of mining 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)	It was proposed that OB will be used for backfilling simultaneously	The OB was used for simultaneously backfilling.	Nil
4b	Location of topsoil, OB and mineral reject dumps	It was proposed that OB will be used for backfilling simultaneously	The OB was used for simultaneously backfilling.	Nil
4c	Number of dumps within lease area and outside of lease area	No proposal	No OB dumps was observed. Only mineral stacking was observed.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Not applicable	Nil
4e	Number of active and alive dumps.	No proposal	None	Only mineral stacking was observed.
4f	Number of dead dumps.	No proposal	None	Nil
4g	Number of dumps established.	No proposal	None	Nil

4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Not required	None
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Not applicable	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. The waste generated is being simultaneously used for backfilling.

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 of mineral	As per proposal	Nil
5b	Area under backfilling of mined out area	Total Approximetly 1.3 hect. up to year 2018-19.	Approximatly 0.25 hect. area.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil generation proposal	Not generated	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal of fully reclamation only backfilling proposed.	Approximatly 0.25 hect. area. backfiiled.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The OB excavated is simultaneously backfilled in exhausted part of the pit & levelled.

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).	PMCP report shall be submitted up to 1 July for the previous year.	PMCP report for the year 2018-19 has not been submitted.	Violation of Rule 26(2) of MCDR 2017 issued to the lessee for non submission of PMCP report for the year 2018-19 vide this office letter dated 28.04.2020.
6b	Area available for rehabilitation (ha) .	No proposal	None	Nil
6c	afforestation done (ha).	0.1 hect.	Not reported	Violation of Rule 26(2) of MCDR 2017 issued to the lessee for non submission of PMCP report for the year 2018-19 vide this office letter dated 28.04.2020.
6d	No. of saplings planted during the year	50 sapling	50 nos. within lease area 90 nos. outside of the lease area	Nil
6e	Cumulative no .of plants	Not specified	Not reported	Violation of Rule 26(2) of MCDR 2017 issued to the lessee for non submission of PMCP report for the year 2018-19 vide this office letter dated 28.04.2020.
6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	Not specified	Not reported	Violation of Rule 26(2) of MCDR 2017 issued to the lessee for non submission of PMCP report for the year 2018-19 vide this office letter dated 28.04.2020.

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	None	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Total Approximetly 1.3 hect. up to year 2018-19.	Approximatly 0.25 hect. area.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal	None	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable	Nil
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	50 nos. ovr an area 0.1 hect.	50 nos. reported in AR 2018-19.	Nil
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	No proposal	Not applicable	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	As per EC conditions	As per proposal	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 PMCP report for the year 2018-19 vide this office letter dated 28.04.2020.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM dispatched	As per proposal	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 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 related to mineral conservation was observed.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil generation proposal	Not generated	Nil

8b	Concurrent use or storage of topsoil	No proposal	Not applicable	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Not applicable	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling of mined out area by OB.	As per proposal	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling of mined out area by OB.	As per proposal	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	50 nos sapling per year.	50 nos. sapling planted within ML area & 90 nos. outside of the ML area.	Nil
8g	Survival rate	Not specified	30 %	Nil
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 good in and around mine area.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Annual return shall be submitted up to 30 June for the previous year. Monthly return shall be submitted up to 10th day of every month for the previous month.	AR 2018-19 submitted. MR not submitted for the month of Feb & March 2020.	Violation of Rule 45(5)(b) of MCDR 2017 issued for non-submission of respective monthly returns vide this office letter dated 28.04.2020.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	No details given	By the previous inspecting officer violation issued.	During the year 2019-20 only 180 tonne production reported up to Jan 2020 due to low demand of Siliceous earth in the marked.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given	Found to be correct.	Nil
9d	Scrutiny of Annual return on afforestation	Details given	Found to be correct.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details given 400 T	Found to be correct.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given ROM production 4481.36T Closing stock- 8931.920	Found to be correct.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price Rs. 663.14 per tonnes	Seema to be correct.	Nil
9h	Scrutiny of Annual return on fixed assets	Fixed assets shown -Nil	No fixed assets at the mine site.	Nil
9k	Scrutiny of Annual return on mining machineries	Detail given	Seems correct.	Nil

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
MCDR17	Rule 26(2)	28-APR-20			
MCDR17	Rule 35(2)	28-APR-20			
MCDR17	Rule 45(5)(k)	28-APR-20			

Date :

(D R GURJAR)

Indian Bureau of Mines