

**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 : **G021**) **D R GURJAR**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Ishwar Singh Rathore, Mine Owner
Official with
Designation
- (iv) Date of Inspection : 11-FEB-21
- (v) Prev.inspection date : 28-FEB-20

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, Gokuldam 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	No backlog of previous year.	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during the year 2019-20.	None	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration proposal during the year 2019-20.	Not applicable.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	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 4.55 hect. (Area under G1 level- 3.2235 hect., G2+G3 level-1.3265 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 111-90040 tonnes, 122-34479 tonnes.	Nil

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	South Eastern part of the lease area.	South Eastern part of the lease area.	Nil
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 & in mineral.	Nil

2c	Stripping ratio or ore to OB ratio	2019-20: 1 : 0.100	1:0.37	As per review chapter of recently approved review of mining plan.
2d	Quantity of topsoil generation in m3	2019-20: 1478 MT	2019-20: 500 MT approximately	Nil
2e	Quantity of overburden generation in m3	2019-20: 16999 MT	2019-20: 13400 T	As per review chapter of recently approved review of mining plan.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The opencast method of mining adopted here which is suitable to the type of deposit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit Working proposed	One pit	Nil
3b	Quantity of ROM mineral production proposed	2019-20: 34057 T	2019-20: 4970.57T	Nil
3c	Recovery of sailable/usable mineral from ROM production	80% of ROM	100%	Nil
3d	Quantity of mineral reject generation	2019-20: 3405.7 Tonne(10% of ROM)	2019-20: No mineral reject generation reported.	As per recent approved RMP.
3e	Grade of mineral rejects generation and threshold value declared.	Not specified in approved mining plan.	No mineral reject reported.	Nil
3f	Quantity of sub grade mineral generation.	2019-20: 3405.7 Tonne(10% of ROM)	2019-20: No subgarde generation reported.	As per recent approved RMP.
3g	Grade of sub grade mineral generation	Not specified ni approved mining plan.	No subgrade reported	As per recent approved RMP.
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	None	Nil

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	Not applicable	Nil
3j	Provision of drilling and blasting in mineral benches	No Drilling Blasting Proposed	Not applicable	Nil
3k	Provision of mining machineries in mineral benches	Proposal given	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 is proposed that at the end of mining plan period i.e. year 2020-21 total area under excavation/pits will be 2.055 hect.	Currently 0.85 hect. area under excavation .	Figures as per recent approved review of mining plan.
3n	Ore to OB ratio for the pit/mine during the year.	2019-20: 1 : 0.100	1:0.37	As per review chapter of recently approved review of mining plan.
3o	Total area put in use under different heads at the end of year	It is proposed that at the end of mining plan period i.e. year 2020-21 total area put to use under different heads will be 3.7161 hect.	Currently total 1.171 hect. area used under different heads.	Figures as per recent approved review of mining plan.
3p	Production of ROM mineral during the last five year period as applicable	2016-17:25803T 2017-18:27502T 2018-19:30033T 2019- 20:34057T, 2020-21:37501T	2016-17:1714.61T 2017-18:2755.57T 2018-19:1195T 2019-20:4970.57T, 2020-21:4909.74T(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, topsoil & subgrade mineral.	No sobgrade generated. OB is being used for backfilling of mined out pit.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Top soil dumping was proposed near along boundary line C-D, Subgrade dumping proposed near Pillar D & OB dumping proposed near pillar A.	No dumping observed near pillar C,D & A. 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 obseved however some some siliceous earth mineral was spread in south central part of the lease area.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within 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.	No proposal given.	No dumps was observed hence not required.	Nil

4i	Length of Retaining wall or garland drain all along dumps	No proposal given.	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.

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 proposal 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	Approximately 0.37 hect. area will be backfilled at the end of year 2019-20.	Approximately 0.34 hect. area will be backfilled at the end of year 2019-20.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Stacking proposal given along boundary line C-D & 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.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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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	Not specified	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	Approximately 0.37 hect. area will be backfilled at the end of year 2019-20.	Approximately 0.34 hect. area will be backfilled at the end of year 2019-20.	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	No proposal	None	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	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.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposal given for subgrade & usable grade.	All ROM mineral dispatched.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	All ROM mineral dispatched.	Nil
7c	Different grade of mineral sorted out at mines.	Usable grade & subgrade	No sorting carried out, All ROM mineral is being dispatched.	Nil
7d	Any beneficiation process at mines	No proposal	None	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
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.

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 uo 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.	Nil
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	No details of plantation given	Violation of Rule 11(1) of MCDR 2017 gived vide letter dated 02.03.2021.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject reported in Annual retrun	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	Ex mine price given Rs. 450 per ton, but cost of production has not been given.	Violation of Rule 45(7) issued vide letter dated 02.03.2021.	Nil
9h	Scrutiny of Annual return on fixed assets	Rs. 1530000	Seems correct.	Nil
9k	Scrutiny of Annual return on mining machineries	Details 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 11(1)	02-MAR-21			
MCDR17	Rule 26(2)	02-MAR-21			
	Rule 45(7)(i)	02-MAR-21			

Date :

(D R GURJAR)

Indian Bureau of Mines