

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/.JSL-34/SE-20

Mine code : 97RAJ14018

- (i) Name of the Inspecting : **P022**) **PANKAJ KULSHRESTHA**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Ratran Lal Khatri, Lessee
Official with
Designation
- (iv) Date of Inspection : 01/12/2023
- (v) Prev.inspection date : 12/02/2021

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SAJIT(161/2013)**
- (b) **Registration NO.** : **IBM/19004/2014**
- (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 : 345027
- FAX No. : 8239887588
- E-mail : ratanbhoot@gmail.com
- Phone : 3413216944
- (f) Police Station : Fatehgarh
- (g) First opening date : 09/01/2017
- (h) Weekly day of rest : SUN
2. Address for : Second Floor, Near Hotel Kailash
correspondance Tehsil Barmer District-Barmer
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 : Ratan Lal Khatri
BARMER RAJASTHAN
Phone:
FAX :

Owner : Ratan Lal Khatri
Po. & District Barmer
BARMER RAJASTHAN
Phone:
FAX :

6. Date of approval of Mining : MP review under 17(1) MCR 2016 24/03/2021
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 for the year 2022-23	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	Nil during the year 2022-23	Not applicable	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal for exploration during the year 2022-23.	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	It was proposed to explore 0.2916 hectare of area during the year 2021-22. But no proposal for the year 2022-23.	0.2916 area has to be explored.	
1e	Balance reserve as on 01/04/20	36761.925 t	As above	
1f	General remarks of inspecting officers on geology, exploration etc	NA	As the lease area is very small, the present status of geology and exploration may be considered as satisfactory.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	The developement was proposed in central part of lease area .	As above	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes separate benche in overburden proposed.	There is no top soil in the lease area. The silicious earth is overlain by overburden comprising of grit and kankar. The overburden is removed with the help of excavator.	

2c	Stripping ratio or ore to OB ratio	1:1.35	1: 1.35
2d	Quantity of topsoil generation in m3	No such proposal as the area is devoid of top soil.	Not applicable as the area is devoid of top soil.
2e	Quantity of overburden generation in m3	16850 cu.m. during the year 2022-23.	4200 cum.m aprox.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	The present status on development of [pit w.r.t type of deposit may be considered as satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	
3b	Quantity of ROM mineral production proposed	13200 t of ROM was proposed during the year 2022-23.	3400 t of ROM produced during the year 2022-23.	
3c	Recovery of sailable/usable mineral from ROM production	90% recovery proposed durng the year 2022-23.	100 %	
3d	Quantity of mineral reject generation	1320 t during the year 2022-23.	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	No sub grade generation proposed.	Not applicable	
3g	Grade of sub grade mineral generation	No sub grade generation	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	As above	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal	Not applicable
3j	Provision of drilling and blasting in mineral benches	No such proposal	Not applicable
3k	Provision of mining machineries in mineral benches	No such proposal	As above
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 5 meter bench height proposed for overburden as well as in mineral.	Yes, teh height of benches as 5 m(max) in overburden and 5 m(max) in mineral is suitable for method of mining.
3m	Total area covered under excavation/pits	1.85 hectares under excavation	As above.
3n	Ore to OB ratio for the pit/mine during the year.	1:1.35	As above
3o	Total area put in use under different heads at the end of year	Pit and quarries : 1.8551 h Mineral Stack : 0.78 h Infrastructure : 0.05	As above
3p	Production of ROM mineral during the last five year period as applicable	2017-18 : 8910 t 2018-19 : 9240 t 2019-20 : 9000 t 2020-21 : 13200 t 2021-22 : 13200 t 2022-23 : 13200 t	2017-18 : 6804.695 t 2018-19 : 1203.38 t 2019-20 : 1500 t 2020-21 : 3800 t 2021-22 : 0 t 2022-23 : 3400 t
3q	General remarks of inspecting officers on method of mining etc.	NA	The present status of mining may be considered as satisfactory.

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes, temporary separate dumping of overburden proposed.Further it is utilised in backfilling.	As above	
4b	Location of topsoil, OB and mineral reject dumps	Near working pit.	The nature of dumping of O/b is temporary, it is further utilised in backfilling.	
4c	Number of dumps within lease area and outside of lease area	One (temporary)	As above	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	temporary dumping ,within upl, near pit	As above	
4e	Number of active and alive dumps.	One -temp. dump	As above	
4f	Number of dead dumps.	No such proposal	Not applicable	
4g	Number of dumps established.	No such proposal	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	No such proposal	Not applicable	
4i	Length of Retaining wall or garland drain all along dumps	No such proposal	Not applicable	
4j	Number of settling ponds	No such proposal	Not applicable	
4k	Specific comments of inspecting officer on waste dump management	NA	The present status of overburden dump management may be considered as satisfactory.	

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 from mined out area before start of backfilling	As above	

5b	Area under backfilling of mined out area	0.9971 ha	As above.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such proposal as the area if devoid of top soil.	Not applicable
5d	Total area fully reclaimed and rehabilitated	0.08 hectare	As above
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	The present status of backfilling may be considered as satisfactory.

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	Yes, as per rule	
6b	Area available for rehabilitation (ha) .	0.08 ha	As above	
6c	afforestation done (ha).	0.08 ha	0.08 ha	
6d	No. of saplings planted during the year	48 Nos.	As above	
6e	Cumulative no .of plants	100	20 Nos.	
6f	Any other method of rehabilitation	No such proposal	Not applicable	
6g	Cost incurred on watch and care during the year	Rs. 60,000 durnig teh year 2022-23	As above.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.6650+0.3320 = 0.9970 ha	As above	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.2988 + 0.1600 = 0.4588 ha	As above
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	0.0800 ha	As above
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No such proposal	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	48 saplings in 400 sq.m of area.	Planted 48 saplings, but due to acute scarcity of water survival is very poor.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.08 ha	As above
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No such proposal	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes, as per guidelines of concerned authority.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	The overall status of PMCP compliance and progressive closure operation may be considered as satisfactory.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	13200 t of ROM proposed during the year 2022-23.	3400 t of ROM produced durng the year 2022-23.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No such proposal	Not applicable, only a little hand sorting obsderved based on colour of mineral.	
7c	Different grade of mineral sorted out at mines.	No such grading proposed	Not applicable	
7d	Any beneficiation process at mines	No such proposal	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The overall status of Mineral conservation may be considered as satisfactory.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such proposal	Not applicable as the area is devoid of top soil.	
8b	Concurrent use or storage of topsoil	No such proposal	Not applicable	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No separate dumps proposed for rejects, fines or waste. The overburden is dumped temporarily for simultaneous utilisation in backfilling.	As above
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes, overburden is being utilised for restoration of the land to its original.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Phased restoration, reclamation of the land affected by mining is being practised,
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	48 saplings proposed to be planted during the year 2022-23	Planted 48 saplings but the survival is very poor due to acute water scarcity and adverse climatic ocnditions only a few survived.
8g	Survival rate	80%	20% as observed during the inspection. Adverse climatic conditions and acute water scarcity are the main reasons for the same.
8h	Water sprinkling on roads to control airborne dust	No such proposal	Not applicable. The entire area is sandy in nature.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	The present status on aesthetic beauty in and around mines area may be considered as satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Yes	Yes, the party is submitting monthly and annual returns as per rule
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager : Shri Manish Parhiar, Mining Engineer : Shri Ramrakh Meghwal and Geologist : Shri Ram kumar	As above
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings : 0.328 ha, Reclaimed-rehabilitated : 0.016 ha ,Used for any other purpose (specify) Plantation : 0.001 ha	As above
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year : 40 (WML) and 10 (OML) Survival rate in percentage : 30 (WML) 10 (OML) Total no. of trees at the end of year : 18	The information furnished seems to be correct.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No reject generation reported in Annual return for the year 2022-23	As above
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock -215 t. production - 3400 t and closing stock 952.580 t	The above information seems to be correct.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price (per/Tonne) : Rs. 300, Cost of production : Rs. 882	The sale value is around Rs. 500. The market of silicious earth is very fluctuating as intimated by the mine operator.

9h	Scrutiny of Annual return on fixed assets	At the beginning of the year : Rs. 3190000, with net closing balance/ estimated merket value as same.	The above information seems to be correct.
9k	Scrutiny of Annual return on mining machineries	FRONT END LOADER of 0.9 cum	As above

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)	02/05/2024			

Date :

(PANKAJ KULSHRESTHA)

Indian Bureau of Mines