

**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 : **P022**) **PANKAJ KULSHRESTHA**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Kuljeet Khatri, Rep. of Lessee
Official with
Designation
- (iv) Date of Inspection : 14/10/2023
- (v) Prev.inspection date : 01/07/2021

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 : 01/01/2015
- (h) Weekly day of rest : SUN
2. Address for : S/o Shri Khub chand Khatri
correspondance : CL-17, Mahaveer Nagar,
Barmer 345001(Rajasthan)
3. (a) Lease Number : RAJ5172
- (b) Lease area : 4.89
- (c) Period of lease : 50
- (d) Date of Expiry : 09/10/2064
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	10/06/2014
Plan/Scheme of Mining	:	MP review under 17(1) MCR 2016	09/04/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal during the year 2022-23	Nil, as there was no proposal during the year 2022-23	
1b	Exploration over lease area for geological axis 1 or 2	No proposal during the year	No exploration carried out during the year 2022-23 therefore value for axis remain same.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee himself declared as exploration agency. No exploration proposed during the year 2022-23.	No exploration carried out during the year 2022-23 therefore no expenditure on exploration during the year 2022-23.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Out of total 4.89 hectares of lease area 2.1031 hectare was considered as under G3 as per previous approved mining plan on 09.04.2019.	No change in exploration status as no such activity carried out during the year 2022-23.	
1e	Balance reserve as on 01/04/20	Mineable reserve of Silicious Earth was considered as 80294 tonnes in previous approved review of mining plan on 09.04.2019. It was proposed to produce total 46,720 tonnes of mineral upto March 2023. Therefore the mineable reserves as on March 2023 were expected as 33,574 tonnes.	By depliting the production raised Total 73,853 tonnes of mineable reserve is available for mining.	

1f	General remarks of inspecting officers on geology, exploration etc	NA	The overall status of geology and exploration may be considered as satisfactory.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to develop the pit in central part of the lease area towards southern direction.	As the proposed production could not be achieved therefore the limit of proposed development not achieved.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, seperate bench in overburden was proposed with RL from 278 to 276 with 9450 cu.m. of O/b generation.	No such generation occurred as the production was low.	
2c	Stripping ratio or ore to OB ratio	Ore to O/b ration during the year was proposed as 1:08.12	The ore to O/b ratio achieved during the year 2022-23 is 1: 0.9	
2d	Quantity of topsoil generation in m3	Nil	No top soil generated during the year 2022-23.	
2e	Quantity of overburden generation in m3	Total 9450 cu.m of overburden was expected during the year 2022-23	NA	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	The present status of development of pit ay be considered as satisfactory.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	Production from one pit was proposed .	Production raised from one pit during the year 2022-23.
3b	Quantity of ROM mineral production proposed	It was proposed to obtain 13100 tonnes of ROM with 12445 tonnes of marketable silicious earth during the year 2022-23.	Total xxx tonnes of ROM were produced during the year 2022-23.
3c	Recovery of sailable/usable mineral from ROM production	It was proposed to recover 95% silicious earth from ROM during the year 2022-23. It was expected to produce 12445 tonnes of marketable silicious earth during the year 2022-23.	Ony xxx tones of marketable silicious earth produced during the year 2022-23.
3d	Quantity of mineral reject generation	Total reject generation 655 tonnes during hte year 2022-23.	NA
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA
3f	Quantity of sub grade mineral generation.	No proposal	Not applicable
3g	Grade of sub grade mineral generation	Not applicable	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 proposal	None
3k	Provision of mining machineries in mineral benches	On hire basis	On hire basis
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes ,OB bench 2m, mineral bench -4 m	Yes ,OB bench 2m, mineral bench -4 m
3m	Total area covered under excavation/pits	Total 1.98 hectares of area was proposed under mining during the plan period.	Total 0.67 hectares of lease area covered under excavation up to the year 2022-23.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.812 during the year 2022-23.	1: 0.9 during the year 2022-23.
3o	Total area put in use under different heads at the end of year	2.33 hecets.	1.616 hecets.
3p	Production of ROM mineral during the last five year period as applicable	2018-19 : NA 2019-20 : 10840 t 2020-21 : 11380 t 2021-22 : 11400 t 2022-23 : 13100 t	2018-19 : 4481.36 2019-20 : 290 t 2020-21 : 360 t 2021-22 : 1000 t 2022-23 : 110 t
3q	General remarks of inspecting officers on method of mining etc.	NA	The present status of method of manining may be considered as satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	It was proposed to backfill the waste in the voids.	Being done
4b	Location of topsoil, OB and mineral reject dumps	No proposal	Not applicable
4c	Number of dumps within lease area and outside of lease area	No proposal	Not applicable
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Not applicable
4e	Number of active and alive dumps.	No proposal	Not applicable
4f	Number of dead dumps.	No proposal	Not applicable
4g	Number of dumps established.	No proposal	Not applicable
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	None
4i	Length of Retaining wall or garland drain all along dumps	No proposal	None
4j	Number of settling ponds	No proposal	None
4k	Specific comments of inspecting officer on waste dump management	NA	There is no issue regarding waste dump management, as it is symultaneously backfilled in the excavated pit.

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 after full extraction	As per proposal	

5b	Area under backfilling of mined out area	0.118 hectares	0.004 hect.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For backfilling and plantation		As per proposal
5d	Total area fully reclaimed and rehabilitated	0.1 hect.	0.06 hecets.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA		The O/b excavated is symultaneously backfilled in excavated part of the pit.

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	Yes submitted.	
6b	Area available for rehabilitation (ha) .	No proposal	Not applicable	
6c	afforestation done (ha).	No proposal	None	
6d	No. of saplings planted during the year	No proposal	None	
6e	Cumulative no .of plants	No proposal	Nil	
6f	Any other method of rehabilitation	No proposal	None	
6g	Cost incurred on watch and care during the year	No proposal	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	4258 sqm	2672 sqm	

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal	None
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal	None
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	As per consent conditions of EC	Being done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	The PMCP Compliance and progressive mine closure operations may be considered as satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not specified	ROM mineral dispatched after the dry. For this ROM is spread on surface than accumulated and dispatched.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual
7c	Different grade of mineral sorted out at mines.	Not specified	Not graded differently,
7d	Any beneficiation process at mines	Not specified	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The present status of Mineral conservation may be considered as satisfactory. No issue regarding mineral conservation.

Environment :

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilisation of top soil for backfilling	As per plan spreading on backfilled area.	
8b	Concurrent use or storage of topsoil	Backfilling and plantation	Spreading on backfilled area.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed separate dumping with simultaneous backfilling	Backfilling is being done	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Simultaneous backfilling	Backfilling is being done	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Simultaneous backfilling	Backfilling is being done
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	50 nos of trees to be planted	Planted 50 trees but survival rate is only 10%
8g	Survival rate	Not specified	10% survival during first year
8h	Water sprinkling on roads to control airborne dust	Proposed	Being done
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The present status of mine on aesthetic beauty in and around lease area may be considered as satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Yes submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager : Shri Parmeshwar Khatri, Mining Engineer Shri Rajesh Kumar Naval	Manager : Shri Parmeshwar Khatri, Mining Engineer Shri Rajesh Kumar Naval	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings: 0.476 hect., Reclaimed-rehabilitated: 0.197 hect., Occupied by plant, buildings, residential, welfare buildings and roads: 0.1 hect. , Used for any other purpose (specify) MINERAL STACK: 0.25 hect.	As above
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year: 50 (WML), 10(OML), SURvival Rate 20% Total no. of trees at the end of the year 2022-23 : 70(WML), 15(OML)	As above.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No reject generation reported.	No reject generation during the eyar 2022-23.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Production of ROM during the year 2022-23 : 110 tonnes reported.Openi ning stock reported as 9197.89 T whereas closing stock reported as 7158.290 T.	During the year 2022-23 total 100 T produced from the mine. The closing stock reported as 7158.290 T

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The ex-mine price reported as Rs. 549.86 in the annual return and cost of production reported as Rs. 543.94	The above mentioned ex-mine price seems to be correct.
9h	Scrutiny of Annual return on fixed assets	No information furnished under this head in the annual return for the year 2022-23.	No major capital investment observed.
9k	Scrutiny of Annual return on mining machineries	BACK HOE - 1 and JEEP /TRACTOR- 2	As above

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 :

(PANKAJ KULSHRESTHA)

Indian Bureau of Mines