

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/BAR-39/SE-20

Mine code : 97RAJ04014

- (i) Name of the Inspecting : **S012**) **Sharma H.C.**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. S. K. Soni, QP
Official with
Designation
- (iv) Date of Inspection : 03/02/2021
- (v) Prev.inspection date : 08/01/2020

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MOKHAB(58/2014)**
- (b) **Registration NO.** : **IBM/19326/2015**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : RAJASTHAN
District : BARMER
Village : Mokhab
Taluka : Shiv
Post office : Mokhab
Pin Code : 344701
FAX No. : 01590231470
E-mail : babulalpadihar0037@gmail.co
Phone : 9982420037
- (f) Police Station : Mokhab
- (g) First opening date : 22/02/2017
- (h) Weekly day of rest : SUN
2. Address for : Mokhab Siliceous Earth Mine, Sri Babu Lal Mali,
correspondance Post: Akli, Teshil: Shiv, District: Barmer (Raj)
Pin: 344701
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 : BABU LAL S/O SHRI HEMA RAM
VILL- AKLI TEHSIL -SHEO
BARMER RAJASTHAN
Phone:
FAX :

Owner : Sri Babulal Mali
22, Ambaliyo Ka Bas, Akali
Gaon Taliya: Akali Barmer
BARMER RAJASTHAN
Phone: 9982420037
FAX : 01590231470

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	Two boreholes were proposed in the previous approved Mining Plan.	Mining pits were developed in the lease area.	
1b	Exploration over lease area for geological axis 1 or 2	No Proposal during 2019-20.	Not applicable	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee himself	Lessee himself	
1d	Balance area to be explored to bring Geological axis in 1 or 2	1.5 hect.	0.4 hect.	
1e	Balance reserve as on 01/04/20	96596 MT in 121 category.	89554 in proved 111 category. & 39714 in 121 category.	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	Four boreholes proposed in FY 2022-23 will add in reserves of proved 111 category.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Single pit with benches were proposed in soil, OB and Mineral	Single pit with benches were proposed in soil, OB and Mineral	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches were proposed in soil, OB and Mineral	Benches were proposed in soil, OB and Mineral	
2c	Stripping ratio or ore to OB ratio	1 : 0.94	1:0.96	
2d	Quantity of topsoil generation in m3	38146 Cu M	3270 Cu M	

2e	Quantity of overburden generation in m3	40184 MT	The O/B backfilled simultaneously in the already excavated area of the Pit.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The opencast method with use of JCB & 10 T Trucks is being used in the mine.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single	Single	
3b	Quantity of ROM mineral production proposed	20373 T during 2019-20	2780 T	
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	
3d	Quantity of mineral reject generation	2038 T	280T	
3e	Grade of mineral rejects generation and threshold value declared.	Not specified	Not applicable	
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	None	

3j	Provision of drilling and blasting in mineral benches	No proposal	Nil
3k	Provision of mining machineries in mineral benches	JCB & Dumper combination.	JCB & Dumper combination.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes
3m	Total area covered under excavation/pits	2.1775 ha	1.785 ha
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.94	1 : 0.96
3o	Total area put in use under different heads at the end of year	2.1775 ha	1.785 ha
3p	Production of ROM mineral during the last five year period as applicable	2016-17 --8724 T, 2017-18 -- 12606 T, 2018-19 --13295T, 2019-20 -- 20373 T	2016-17 -- 2700 T, 2017-18 --11450 T, 2018-19 --24460 T, 2019-20 -- 2780 T
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The opencast method is proposed for carrying out mining operations in the leasehold area.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	38170 T soil/OB was proposed to be removed	3270 T soil/OB was removed which was utilized in simultaneous backfilling.	
4b	Location of topsoil, OB and mineral reject dumps	Symultaneous backfilling proposed.	Being done	

4c	Number of dumps within lease area and outside of lease area	Symultaneous backfilling proposed.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Symultaneous backfilling proposed.	Not applicable
4e	Number of active and alive dumps.	Symultaneous backfilling proposed.	Not applicable
4f	Number of dead dumps.	Not applicable	Not applicable
4g	Number of dumps established.	Not applicable	Not applicable
4h	Whether Retaining wall or garland drain all along dumps are there.	Not applicable	Not applicable
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Not applicable
4j	Number of settling ponds	Not applicable	Not applicable
4k	Specific comments of inspecting officer on waste dump management	Not applicable	The symultaneous backfilling has been proposed & carried out.

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 lease area.	Full extraction of Mineral from lease area.	
5b	Area under backfilling of mined out area	1.785 ha	0.38 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	The O/B waste Soil is proposed to be backfilled symultaneously .	Being done	

5d	Total area fully reclaimed and rehabilitated	1.785 ha	0.38 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	The reclamation by backfilling & levelling is carried out.	

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	Not submitted	
6b	Area available for rehabilitation (ha) .	1.785 ha	0.38 ha	
6c	afforestation done (ha).	0.1 ha	0.1 ha	
6d	No. of saplings planted during the year	50 plants	50 plants during the year 2019-20	
6e	Cumulative no .of plants	170 no s of plants	150 nos of plants.	
6f	Any other method of rehabilitation	No proposal	Not applicable	
6g	Cost incurred on watch and care during the year	Not specified	Not applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	1.785 ha	0.38 ha	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.785 ha	0.38 ha	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	0.02 ha to be planted each year	0.015 ha afforested	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Not applicable	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	Not applicable	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposal	Not applicable	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposal	Not applicable	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposal	Not applicable	
6p	Compliance of environmental monitoring (core zone and buffer zone)	No Proposal	Not applicable	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The compliance of PMCP proposals was satisfactory.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

7a	ROM Mineral dispatch or grade-wise sorting within lease area	1835 T during 2019-20	2500 T during 2019-20
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual
7c	Different grade of mineral sorted out at mines.	No proposal	Not applicable
7d	Any beneficiation process at mines	No proposal	Not applicable
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	No issue of mineral conservation is there.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	The Top soil in the form of Sandy soil proposed to be removed separately.	Being done	
8b	Concurrent use or storage of topsoil	The Top soil in the form of Sandy soil proposed to be removed separately & used in Symultaneous backfilling in already excavated area.	Being done	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	The Top soil in the form of Sandy soil proposed to be removed separately & used in Symultaneous backfilling in already excavated area. as such there are no dumps in the area.	The Top soil in the form of Sandy soil proposed to be removed separately & used in Symultaneous backfilling in already excavated area. as such there are no dumps in the area.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	The Top soil in the form of Sandy soil O/B waste proposed to be removed separately & used in Symultaneous backfilling in already excavated area. as such there are no dumps in the area.	Being done
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	The Top soil in the form of Sandy soil proposed to be removed separately & used in Symultaneous backfilling in already excavated area. as such there are no dumps in the area.	The Top soil in the form of Sandy soil proposed to be removed separately & used in Symultaneous backfilling in already excavated area. as such there are no dumps in the area.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The 50 nos of trees per year planted with a total of 150 trees.	The 50 nos of trees per year planted with a total of 150 trees.
8g	Survival rate	Not specified	about 80 %
8h	Water sprinkling on roads to control airborne dust	No proposal	Not applicable

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The aesthetic beauty was satisfactory.
----	--	----------------	--

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Not applicable	The M/R recieved up to March 2020. The A/R recieved till 2018-19. The A/R For the year 2019-20 has not been recieved.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The A/R For the year 2019-20 has not been recieved.	Not applicable	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The A/R For the year 2019-20 has not been recieved.	Not applicable	
9d	Scrutiny of Annual return on afforestation	The A/R For the year 2019-20 has not been recieved.	Not applicable	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	The A/R For the year 2019-20 has not been recieved.	Not applicable	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The A/R For the year 2019-20 has not been recieved.	Not applicable	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The A/R For the year 2019-20 has not been recieved.	Not applicable	
9h	Scrutiny of Annual return on fixed assets	The A/R For the year 2019-20 has not been recieved.	Not applicable	

9k	Scrutiny of Annual return on mining machineries	The A/R For the year 2019- 20 has not been recieved.	Not applicable
----	--	---	----------------

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 :

(Sharma H.C.)

Indian Bureau of Mines