

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/BAR-40/SE-20

**Mine code :** 97RAJ04020

- (i) Name of the Inspecting : **S012** ) **Sharma H.C.**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Narayan Singh, Lessee and Shri Rajesh Nawal, ME  
Official with  
Designation
- (iv) Date of Inspection : 04/02/2021
- (v) Prev.inspection date : 07/01/2020

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **MOKHAB(64/2013)**
- (b) **Registration NO.** : **IBM/19005/2014**
- (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 : Budha Tala  
Pin Code : 344701  
FAX No. : 9414771114  
E-mail : narayansinghrathore999@gma:  
Phone : 9414771114
- (f) Police Station : MOKHAB
- (g) First opening date : 20/02/2017
- (h) Weekly day of rest : SUN
2. Address for : VPO- BUDHA TALA, BHIYAD  
correspondance : TAH- SHIV, DIST 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 : NARAYAN SINGH S/O SHRI JALAM SINGH RATHO  
VPO BUDHA TALA, BHIYAR  
TEHSIL SHIV BARMER  
RAJASTHAN  
Phone:  
FAX :

Owner : NARAYAN SINGH S/O SHRI JALAM SINGH  
VPO-BUDHA TALA, BHIYAR TAH-  
SHIV BARMER RAJASTHAN  
Phone:  
FAX :

## Mining Engineer

Name : Shri Rajesh Nawal, Part Time  
Qualification : BE(Mining)  
Appointment/ : 20/02/2017  
Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Fresh under rule 22 MCR1960 12/03/2015

## 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 last approved plan period.	Three boreholes were drilled, two in surface & one in bottom of the excavated pit to know if any second bed exist before starting the backfilling.	
1b	Exploration over lease area for geological axis 1 or 2	G1- 4.0 ha	Being done	
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	None	Nil	
1e	Balance reserve as on 01/04/20	107298 in proved 111 category	107298 in proved 111 category	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The entire potential mineralised area had been covered in exploration programme.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	65N to 225N and 44W to 82E	75N to 198N and 13E to 44E	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top soil - 1m Overburden - 2 m Mineral - 4m	Top soil - 1m Overburden - 2.5m Mineral - 4m	
2c	Stripping ratio or ore to OB ratio	1:0.73 cum/ton	1:1.23 cum/ton	
2d	Quantity of topsoil generation in m3	3700m3	2050 m3	

2e	Quantity of overburden generation in m3	7400 m3	4100 m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The development was prorationally less but as per approved proposals.

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit	Single Pit	
3b	Quantity of ROM mineral production proposed	15200tonnes	4960 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	90 %	90%	
3d	Quantity of mineral reject generation	1600 tonnes	200 Tonnes	
3e	Grade of mineral rejects generation and threshold value declared.	Not specified	Not applicable	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	None	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	None	

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3j	Provision of drilling and blasting in mineral benches	No proposal	Nil
3k	Provision of mining machineries in mineral benches	JCB with tractor trolley combination on hire basis.	Being Done
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	0.3700ha	0.2050ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.73 cum/ton	1:1.23 cum/ton
3o	Total area put in use under different heads at the end of year	0.6150ha	0.7010ha
3p	Production of ROM mineral during the last five year period as applicable	2016-17 -- 12600mt, 2017-18-- 15200mt, 2018-19-- 16000mt, 2019-20-- 15200mt.	2016-17 -- 1950mt, 2017-18-- 5630mt, 2018-19-- 5350mt, 2019-20-- 4960mt.
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The Open cast method has been adopted for carrying out mining operations in the area.

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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)	Separate dumping with simultaneously backfilling	Being done	
4b	Location of topsoil, OB and mineral reject dumps	reject dumps near C pillar	Symultaneously backfilled.	

4c	Number of dumps within lease area and outside of lease area	1	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable as waste backfilled.	None
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	Nil
4j	Number of settling ponds	No proposal	None
4k	Specific comments of inspecting officer on waste dump management	Not applicable	There is no reject or waste dump in the area. The waste obtained is simultaneously backfilled in the voids created by excavation of the pit.

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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 is proposed to be carried out in second year onwards.	As per proposals.	
5b	Area under backfilling of mined out area	0.130ha	0.070ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For backfilling and plantation	As per proposals	

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5d	Total area fully reclaimed and rehabilitated	2.0580ha	0.1200ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	The waste obtained is simultaneously backfilled in the voids created by excavation of the pit & layered with top soil.	

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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) .	Not specified	0.070ha	
6c	afforestation done (ha).	0.0075ha	0.0150ha	
6d	No. of saplings planted during the year	50plants	150plants	
6e	Cumulative no .of plants	100 plants	150 plants inside the lease and 100 outside the lease	
6f	Any other method of rehabilitation	No proposal	None	
6g	Cost incurred on watch and care during the year	No proposal	Rs. 60000/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	0.1300ha	0.0070ha	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not specified	0.0070ha	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not specified	0.0060ha	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not specified	None	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not specified	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not specified	About 50 plants planted.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not Specified	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Specified	By plantation.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Not specified in Consent condition of SPCB	Not applicable	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The implementation of PMCP proposals was found satisfactory.	

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	15200mt	4960mt
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual
7c	Different grade of mineral sorted out at mines.	Single grade	Single grade
7d	Any beneficiation process at mines	No proposal	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	No issue regarding mineral conservation.

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Environment:

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

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Simultaneous backfilling	Simultaneous backfilling
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	50 plants per year	150 plants
8g	Survival rate	Not specified	30 %
8h	Water sprinkling on roads to control airborne dust	Not Specified	Not applicable
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The general aesthetic beauty in & around the mine was satisfactory.

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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 submitted up to Jan 2021. The A/R submitted for 2019-20.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The Agent & Manager- Sh. Narayan Singh, Mining Engineer- Sh. Rajesh Kumar (Part Time)	Found in order	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under Working 0.205 ha, Reclamed - 0.141 ha, Plant & biulding 0.008 ha, Mineral stack- 1.44 ha.	Found in order.	

9d	Scrutiny of Annual return on afforestation	50 planted within lease & 30 outside lease.	The survival rate achieved was 30%.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject generated 200 T	Generated reject dumped near pillar 'C' separately.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stack - Nil, Production- 4960 Tonnes, Closing Stock - Nil	Found in order.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price is 850.72/- per ton and production cost is 756/- (2019-20)	Found in order
9h	Scrutiny of Annual return on fixed assets	The Fixed assets -Nil	It cannot be Nil, however M/C deployed on hire bassis.
9k	Scrutiny of Annual return on mining machineries	The backhoe with 1.0 Cu M bucket capacity stated to be deployed.	The above M/C deployed on Hire Bassis.

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**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