

**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 : 1( ) A K JATOLIA  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sh. Narayan Singh, owner,  
Official with  
Designation
- (iv) Date of Inspection : 29-JAN-24
- (v) Prev.inspection date : 04-FEB-21

**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-FEB-17
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : VPO- BUDHA TALA, BHIYAD  
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-FEB-17  
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	12-MAR-15
Plan/Scheme of Mining	:	MP review under 17(1) MCR 2016	12-MAR-21

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No backlog proposal of previous year.	Not applicable as no proposal.	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal given	Not applicable as no proposal.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No specific proposal	Not applicable	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Not applicable	Nil
1e	Balance reserve as on 01/04/20	As per approved document dated 12/03/2021, the position of reserve and resource were 107298 and 29142 tonnes respectively.	The position of reserve and resource as on 31.03.2023 were 95693 and 29142 tonnes respectively.	Nil
1f	General remarks of inspecting officers on geology, exploration etc	No specific proposal for reporting year.	Geologically the area is flat and covers with sandy soil. No much variation the dip of the Siliceous earth.	Nil

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development has been proposed between grid line 38 N to 220 N and 62 W to 55E.	Development has been carried out within approved proposal.	Nil

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches have been proposed in Top soil, Overburden and mineral.	Separate benches have been developed in Top Soil, OB and Mineral.	Nil
2c	Stripping ratio or ore to OB ratio	1:0.93 (Cum / tonne).	1:0.63 (Cum / tonne)	Ore to Overburden ratio (stripping ratio) was achieved 1:0.63 (Cum / tonne) against the proposed ratio of 1:0.93 (Cum / tonne). Hence, Violation has been issued under rule 11(1) of MCDR 2017.
2d	Quantity of topsoil generation in m3	4270 Cum	500 Cum	Less top soil generated is in account of less production of mineral.
2e	Quantity of overburden generation in m3	10675 Cum	4500 Cum	4500 Cum quantity of Overburden has been produced during the year 2022-23 against the proposal of 10675 Cum quantity of Overburden. Hence, Violation has been issued under rule 11(1) of MCDR 2017.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development has been proposed through opencast method of mining.	Opencast method of mining has been practiced.	Nil

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Nil

3b	Quantity of ROM mineral production proposed	16000 tonnes	7055 tonnes	7055 tonnes quantity of ROM has been produced during the year 2022-23 against the proposal of 16000 tonnes quantity of ROM. Hence, Violation under rule 11(1) of MCDR 2017 has been issued.
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	Nil
3d	Quantity of mineral reject generation	1600 tonnes	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No specific proposal	Not applicable.	Nil
3f	Quantity of sub grade mineral generation.	No proposal	Not applicable.	Nil
3g	Grade of sub grade mineral generation	Not applicable as no proposal.	Not applicable	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	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 proposal	Not applicable as no proposal	Nil
3k	Provision of mining machineries in mineral benches	Excavator, Tractor-Trolley, water pump fitted on the tractor.	As per proposal.	Nil

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height has been proposed to 3 mts in OB and 4 mts in Mineral.	Maintained as per proposal.	Nil
3m	Total area covered under excavation/pits	3.09 Ha	1.75 Ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.93 (Cum / tonne).	1:0.63 (Cum / tonne).	Ore to Overburden ratio (stripping ratio) was achieved 1:0.63 (Cum / tonne) against the proposed ratio of 1:0.93 (Cum / tonne). Hence, Violation under rule 11(1) of MCDR 2017 has been issued.
3o	Total area put in use under different heads at the end of year	As per approved document dated 12.03.2021, an area of 3.24 Ha has been proposed to put in use at the end of the plan period i.e. 2025-26.	As reported an area of 2.1 ha. area has been put under different heads at the end of the year 2022-23.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2018-19 : 14400 tonnes 2019-20: 13680 tonnes 2020-21 : 15444 tonnes 2021-22 : 16000 tonnes 2022-23 : 16000 tonnes	2018-19 : 5350 tonnes 2019-20 : 4760 tonnes 2020-21 : 4465 tonnes 2021-22 : 11500 tonnes 2022-23 : 7055 tonnes	
3q	General remarks of inspecting officers on method of mining etc.	Opencast method of the mining has been proposed.	Opencast method of mining has been practiced.	Due to near surface deposition of mineral opencast method is suitable.

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)	Simultaneously backfilling of OB has been proposed for the reporting year. Top Soil and Reject has been proposed stored near boundary.	Simultaneously backfilling has been observed for OB. Top soil generated has been utilized for backfilling in the interest early reclamation and rehabilitation of mineout area.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Dumping of the waste and reject has been proposed near boundary pillar B.	Dumping of the waste and reject has been observed as per proposal.	Nil
4c	Number of dumps within lease area and outside of lease area	Within Lease area: Two Outside Lease area: NIL.	Within Lease area: Two Outside Lease area: NIL.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable as no proposal of dumping of OB during the reporting year.	Not applicable.	Nil
4e	Number of active and alive dumps.	No proposal of active dumping during reporting year.	Waste generated has been backfilled, Two active dump of Minerals.	Nil
4f	Number of dead dumps.	No proposal	Not applicable as no proposal.	Nil
4g	Number of dumps established.	No proposal.	Not applicable.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No specific proposal	None	Nil
4i	Length of Retaining wall or garland drain all along dumps	Not applicable as no proposal.	Not applicable.	Nil
4j	Number of settling ponds	No proposal.	Not applicable.	Nil
4k	Specific comments of inspecting officer on waste dump management	Generated waste has been proposed to backfill in mined out pit area.	Waste has been backfilled in mined out area.	No issues related to waste dumping.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	An old half backfill area of 0.618 Ha an has been proposed for backfilling after full extraction of mineral.	As per proposal.	Nil
5b	Area under backfilling of mined out area	An old half backfill area of 0.618 Ha an has been proposed for backfilling after full extraction of mineral.	As per proposal.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	An old half backfill area of 0.618 Ha an has been proposed for backfilling after full extraction of mineral.	It has been reported that an old half backfill area of 0.618 Ha has been reclaimed during the reporting year.	Nil
5d	Total area fully reclaimed and rehabilitated	An old half backfill area of 0.618 Ha an has been proposed for reclamation.	It has been reported that an area of 0.618 ha. has been reclaimed during the reporting year.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Proposal of backfilling has been envisaged after full extraction of mineral.	Generated waste has been backfilled in the mine out area.	No issues related to backfilling.

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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).	As per rule 26 of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year.	PMCP report of the year 2022-23 has been submitted.	Nil



6b	Area available for rehabilitation (ha) .	An area of 0.03Ha has been proposed for rehabilitation /afforestation .	It has been reported during inspection that an area of 0.03 Ha has been rehabilitated.	Nil
6c	afforestation done (ha).	An area of 0.03 Ha has been proposed for rehabilitation /afforestation .	It has been reported during inspection that an area of 0.03 Ha has been rehabilitated.	Nil
6d	No. of saplings planted during the year	50 numbers.	As per proposal	As per AR 2022-23.
6e	Cumulative no .of plants	No specific proposal.	Not applicable	Nil
6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	No specific proposal.	Not reported	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	An old half backfill area of 0.618 Ha has been proposed for backfilling.	As per proposal	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	10675 CuM	4500 Cum as reported during mine inspection.	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	50nos of saplings over 0.03ha in lease area along statuory barrier has been proposed.	50nos of saplings over 0.03ha in lease area along statuory barrier has been carried out as per proposal.	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal making reservoir.	Not applicable as no proposal of making reservoir.	Nil

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No specific proposal.	Not applicable as no proposal.	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	50 numbers of saplings has been proposed to plant.	As reported a total of 50 numbers of plants have been planted within lease area.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	An area of 0.03 Ha has been proposed for rehabilitation /afforestation .	It has been reported during inspection that an area of 0.03 Ha has been rehabilitated.	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)	Monitoring of environment parameters.	Monitoring has been carried out for the reporting year.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Plantation over 0.03 ha with 50 numbers of saplings has been proposed.	An area of 0.03 ha. has been planted with 50 numbers of saplings within lease area.	Nil

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting within lease area based on physical properties.	As per proposal.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual.	Manual.	Nil

7c	Different grade of mineral sorted out at mines.	No specific proposal.	Not applicable as no proposal.	Nil
7d	Any beneficiation process at mines .	No beneficiation process at the mine.	Not applicable as no beneficiation process at the mine.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No proposal of any beneficiation.	Not applicable as no proposal.	No issued related to Mineral conservation.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilisation of top soil has been proposed.	Top Soil has been removed and utilised as per plan.	Nil
8b	Concurrent use or storage of topsoil	No proposal of concurrent use of top soil.	Top soil/ Sandy Soil have been spread over backfilled area in the interest of early rehabilitation of mine out area.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste has been proposed to utilize for backfilling and separate dumping has been proposed for rejects.	Waste generated has been utilized for backfilling and no reject generation during the year.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Simultaneous backfilling by waste rocks.	Backfilling was observed as per proposal.	Nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	An area of 0.618 Ha has been proposed for reclamation.	As reported during site inspection an area of around 0.618 Ha. has been reclaimed.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Planation with 50 numbers of saplings has been proposed.	Plantation with 50 numbers of saplings within lease area.	Nil
8g	Survival rate	No specific proposal.	About 20% as reported.	As per AR 2022-23.
8h	Water sprinkling on roads to control airborne dust	Water spraying has been proposed on the roads.	Water sprinkling has not been observed as mining operations were under suspensions on the date of inspection.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty of the mine is maintained.

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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR, monthly returns and annual returns to be submitted.	Monthly return (upto December 2023) and Annual Return for the year 2022-23 have been submitted.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given	Found to be in order.	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings- 1.75Ha., Reclaimed rehabilitated- 1.20 Ha., Used for waste disposal-0 Ha. Occupied by plant, buildings, residential, welfare buildings and roads-0.05Ha., Used for any other purpose (specify) Mineral Stack- 0.300Ha., Work done under progressive mine closure plan during the year- 0.09Ha.	Found to be correct.	Nil
9d	Scrutiny of Annual return on afforestation	50 Numbers of trees reported during the year	Found to be correct.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil Mineral reject has been reported.	Found to be in order.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock- Nil, Opening Stock of Graded Ore- 3147.05 tonnes, and Closing Stock of Graded Ore- 2090.864 tonnes	Found to be in Order.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value- 675.71 Rs./Tonne, Ex- Mine Price- 675.71 Rs./Tonne, and COP- 450.30 Rs./Tonne	Appears to be in order.	Nil

9h	Scrutiny of Annual return on fixed assets	The value of fixed asset furnished is NIL.	The information furnished found in order.	Nil
9k	Scrutiny of Annual return on mining machineries	01 Back hoe, 2 JEEP/TRACTOR	The information furnished found to correct.	Nil

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**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)	18-MAR-24			
MCDR17	Rule 45(7)(a)	18-MAR-24			

**Date :**

**(A K JATOLIA)**

Indian Bureau of Mines