

**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 : **DJ03** ) **DILIP JAIN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Babulal Mali, Lessee  
Official with  
Designation
- (iv) Date of Inspection : 08-JAN-20
- (v) Prev.inspection date :

**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 :  
Pin Code :  
FAX No. : 01590231470  
E-mail : babulalpadihar0037@gmail.co  
Phone : 9982420037
- (f) Police Station : Mokhab
- (g) First opening date : 22-FEB-17
- (h) Weekly day of rest : SUN
2. Address for :  
correspondance :
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	No proposal of exploration during the previous year i.e. 2017-18.	Not applicable as no proposal.	NIL.
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during reporting year i.e. 2018-19.	No exploration has been carried out.	NIL.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable as no proposal of exploration during reporting year.	Not applicable.	NIL.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No specific proposal about the balance area to be explored under G1/G2. However, proposal of two exploratory BHs has been given in the 1st year i.e. 2016-17.	Exploration as envisaged in the approved document dated 28/04/2015 for the year 2016-17 has not been carried out.	Violation of MCDR issued vide letter dated 10/02/2020.
1e	Balance reserve as on 01/04/20	As per approved document dated 28/04/2015, the position of reserve and resource was 96596 and 19133 tonnes respectively.	The position of reserve and resource as on 01/04/2019 was 61876 and 19133 tonnes respectively.	Total depletion of 34720 since 2016-17 to 2018-19.

1f	General remarks of inspecting officers on geology, exploration etc	Exploration has been proposed through two exploratory BHs during the year 2016-17.	Exploration has not been carried out as per proposal.	Violation of MCDR issued.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development has been proposed between grid line N90 to N215 and W25 to E145.	Development has been carried out within approved limits of 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.	Top Soil has been observed in the form of sandy soil.
2c	Stripping ratio or ore to OB ratio	1:0.94 CuM/Tonnes.	1:0.95 CuM/Tonnes.	Base on the waste generation reporting during the mine inspection.
2d	Quantity of topsoil generation in m3	Soil of 7495 CuM has been propsoed to generate.	As reported during site inspection, a total of 11850 CuM of soil has been generated. More generation due to more production than proposal.	NIL.
2e	Quantity of overburden generation in m3	4997 CuM	9100 CuM (More generation due to more production than proposal).	Violation of MCDR issued for non-reporting of waste generation in AR 2018-19.
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
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3a	Number of pit proposed for production	One.	One.	NIL.
3b	Quantity of ROM mineral production proposed	13295 Tonnes.	22000 Tonnes.	Excess production of 8705 tonnes has been carried out for which a letter to Director of Mines, Udaipur has been written for appropriate action vide letter dated 04/07/2019.
3c	Recovery of saleable/usable mineral from ROM production	11965 tonnes.	22000 tonnes.	For excess production letter to Director of Mines, Udaipur has been written for appropriate action vide letter dated 04/07/2019.
3d	Quantity of mineral reject generation	1330 tonnes.	No mineral Reject generation.	NIL.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal about grade of the Mineral Reject.	Not applicable as mineral reject has not been generated.	NIL.
3f	Quantity of sub grade mineral generation.	No proposal.	Not applicable.	NIL.
3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	NIL.
3h	Manual / Mechanised method adopted for segregating from ROM	Manual method of segregation.	Manual method has been adopted.	NIL.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal of beneficiation study.	Not applicable as no proposal.	NIL.
3j	Provision of drilling and blasting in mineral benches	No proposal of drilling and blasting.	Not applicable as no proposal.	NIL.

3k	Provision of mining machineries in mineral benches	Excavator, Truck/Dumpers, Water Tanker and Pump.	Excavator, Truck/Dumpers etc.	Mining operations have been suspended vide letter dated 18/10/2018.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height has been proposed to 2 mts in OB and 2 mts in Mineral.	Height of the benches has been maintained as per proposal.	NIL.
3m	Total area covered under excavation/pits	An area of 1.85 Ha has been proposed to put in use at the end of the plan period i.e. 2020-21.	As reported during inspection, an area around 1.40 ha has been utilized under excavation and reclamation as on 01/04/2019.	Violation of MCDR issued for non-reporting of the area under AR 2018-19.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.94 CuM/Tonnes.	1:0.95 CuM/Tonnes.	Base on the waste generation reporting during the mine inspection.
3o	Total area put in use under different heads at the end of year	An area of 2.177 Ha has been proposed to put in use at the end of the plan period i.e. 2020-21.	As reported an area of 2.01 ha. area has been put under different heads as on 01/04/2019.	Violation of MCDR issued for non-reporting of land use pattern at the end of the year 2018-19 under AR 2018-19.
3p	Production of ROM mineral during the last five year period as applicable	2016-17:8724 2017-18:12606 2018-19:13295	2016-17:2420 2017-18:10300 2018-19:22000	Mining operations started in the year 2016-17.
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	Proposals	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 pillar A.	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 C and A respectively.	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: One Outside Lease area: NIL.	Within Lease area: One Outside Lease area: NIL.	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of UPL. Simultaneous backfilling has been proposed from the third year i.e. 2018-19.	Out side of UPL. Waste generated has been backfilled.	NIL.
4e	Number of active and alive dumps.	No proposal of active dumping during reporting year.	Waste generated has been backfilled, no active dumping.	NIL.
4f	Number of dead dumps.	One.	One.	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.	Retaining wall observed along the existing waste dump.	NIL.
4i	Length of Retaining wall or garland drain all along dumps	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:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	An area of 0.0846 Ha has been proposed for backfilling after full extraction of mineral.	It has been reported that during inspection that an area of around 0.10 Ha. has been backfilled after full extraction.	Land use data at the end of the year 2018-19 has not been furnished in the Annual return for verification. Violation of MCDR issued vide letter dated 10/02/2020.
5b	Area under backfilling of mined out area	An area of 0.0846 Ha has been proposed for backfilling.	As reported during site inspection an area of around 0.10 Ha. has been reclaimed.	NIL.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil has been proposed to stack separately near boundary pillar A.	Top soil generated has been utilized for backfilling in the interest early reclamation and rehabilitation of mine out area.	NIL.
5d	Total area fully reclaimed and rehabilitated	An area of 0.0846 Ha. has been proposed for reclamation.	It has been reported that an area of 0.10 has been reclaimed during the reporting year.	Violation of MCDR issued for non-reporting of land use in AR.
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.

#### Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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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 2018-19 has not been submitted.	Violation of MCDR issued vide letter dated 10/02/2020
6b	Area available for rehabilitation (ha) .	An area of 0.012 Ha has been proposed for rehabilitation /afforestation	It has been reported during inspection that an area of 0.012 Ha has been rehabilitated.	Violation of MCDR issued for non-submission of PMCP report for the year 2018-19.
6c	afforestation done (ha).	An area of 0.012 Ha has been proposed for rehabilitation /afforestation	It has been reported during inspection that an area of 0.012 Ha has been rehabilitated.	Violation of MCDR issued for non-submission of PMCP report for the year 2018-19.
6d	No. of saplings planted during the year	100 numbers.	120 numbers.	As per AR 2018-19.
6e	Cumulative no .of plants	300 number of trees (2016-17 to 2018-19).	Cumulatively 420 within lease area and 240 outside of the lease area has been planted during 2016-17 to 2018-19.	As per ARs 2016-17 to 2018-19.
6f	Any other method of rehabilitation	Other than plantation, no any other method of rehabilitation	Not applicable as no proposal.	NIL.
6g	Cost incurred on watch and care during the year	Rs. 10000/-	Rs. 12000/- as reported during inspection.	Violation of MCDR issued for non-submission of PMCP report for the year 2018-19.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	An area of 0.0846 Ha has been proposed for backfilling.	It has been reported during inspection that an area of around 0.10 Ha. has been backfilled.	Violation of MCDR issued for non-submission of PMCP report for the year 2018-19.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	12490 CuM	20950 CuM (Including sandy soil/top soil) as reported during mine inspection.	Waste generation figures has not been reported in the annual return. Violation of MCDR issued.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal of afforestation on backfilled area.	Not applicable as no proposal of afforestation on backfilled area.	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 any other specific proposal.	Not applicable as no proposal.	NIL.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	100 numbers of saplings has been proposed to plant.	As reported a total of 120 numbers of plants have been planted within lease area.	As per AR 2018-19.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	An area of 0.012 Ha (safety Zone) has been proposed for rehabilitation /afforestation	It has been reported during inspection that an area of 0.012 Ha has been rehabilitated.	Violation of MCDR issued for non-submission of PMCP report for the year 2018-19.
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.	Planation over 0.012 ha with 100 numbers of saplings has been proposed.	An area of 0.012 has been planted with 120 numbers of saplings within lease area.	PMCP report for the year 2018-19 has not been submitted, Violation of MCDR issued.
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### 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 of top soil has been proposed.	Top Soil has been removed as per plan.	Top soil is in form of the sandy soil.
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 0.0846 Ha has been proposed for reclamation.	As reported during site inspection an area of around 0.10 Ha. has been reclaimed.	NIL.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation with 100 numbers of saplings has been proposed.	Plantation with 120 numbers of saplings within lease area.	NIL.
8g	Survival rate	No specific proposal	About 90% as reported.	As per AR 20181-9.
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	It is proposed to plant 100 numbers of saplings.	Within lease area 120 numbers and outside lease area 80 numbers of saplings has been planted.	Aesthetic beauty of the mine is maintained.

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Compliance of Rule 45:

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Sl.No.	Item	Proposals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR, monthly and annual returns to be submitted.	Annual returns for the year 2018-19 submitted. Monthly returns for the month October, November and December 2019 has not been submitted.	Violation of MCDR issued.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information on Mining Engineer, Geologist and Manager has not been furnished.	On the date of inspection no appointment of Mining Engineer, Geologist and Manager as mine is under suspension.	NIL.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Information about land use has not been furnished.	No information on land use has been furnished.	Violation of MCDR issued vide letter date 10/02/2020.
9d	Scrutiny of Annual return on afforestation	Plantation within lease area: 120 numbers and outside of the lease area 80 numbers.	Information of afforestation furnished appears to correct.	NIL.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject generation: NIL.	Mineral Reject has not been generated during the reporting year.	NIL.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: NIL and graded stock: 2519.56 tonnes.	Appears to be in order.	NIL.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price is Rs. 550 per tonnes and cost of production furnished is Rs. 550 per tonnes.	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	Jeep/Tractor etc.	The information furnished found to correct.	NIL.

**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)	10-FEB-20			
MCDR17	Rule 26(2)	10-FEB-20			
MCDR17	Rule 33	10-FEB-20			
MCDR17	Rule 45(5)(k	10-FEB-20			
MCDR17	Rule 45(7)(a)	10-FEB-20			

**Date :**

**(DILIP JAIN)**

Indian Bureau of Mines