

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/BAR-28/SE-13

Mine code : 97RAJ04003

- (i) Name of the Inspecting : **DJ03**) **DILIP JAIN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Narayan Singh, Lessee Representative and Shri Ra
Official with
Designation
- (iv) Date of Inspection : 07-JAN-20
- (v) Prev.inspection date : 18-FEB-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHIYAR(65/2012)**
- (b) **Registration NO.** : **IBM/15439**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : RAJASTHAN
District : BARMER
Village : BHIYAR
Taluka : BARMER
Post office :
Pin Code :
FAX No. : 9413253109
E-mail : RATHOREBHOMSINGH@GMAIL.COM
Phone : 9413253109
- (f) Police Station : Bhiyar
- (g) First opening date : 08-NOV-13
- (h) Weekly day of rest : SUN
2. Address for : 297, Hanuwant-A
correspondance : BJS Pawata Road
Jodhpur 342001
3. (a) Lease Number : RAJ5211
- (b) Lease area : 4.5
- (c) Period of lease : 50
- (d) Date of Expiry : 07-NOV-63
4. Mineral worked : SILICEOUS EARTH Main

5. Name and Address of the

Lessee : SHRI BHOM SINGH RAJPUT
 297, HANWANT-A BJS PAOTA
 JODHPUR RAJASTHAN
 Phone:
 FAX :

Owner : SHRI BHOM SINGH RAJPUT S/O CHANDAN SINGH RAJPUT
 297, HANWANT-A BJS PAOTA
 JODHPUR RAJASTHAN
 Phone:
 FAX :

Mining Engineer

Name : Shri Rajesh Nawal, Part Time
 Qualification : BE(Mining)
 Appointment/ : 10-JAN-15
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	26-JUL-13
Plan/Scheme of Mining	:	MP review under 17(1) MCR 2016	08-JUN-18

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	A total of 02 BH have been proposed during the reporting year 2018-19.	No exploration has been carried out.	Violation of MCDR issued vide letter dated 10/02/2010.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No specific proposal of exploratory agency and expenditure.	Not applicable as no exploration has been carried out during the reporting year.	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 BH has been given.	No exploration has been carried out.	Violation of MCDR issued vide letter dated 10/02/2010.
1e	Balance reserve as on 01/04/20	As per approved document dated 08/06/2018, the position of reserve and resource was 32040 and 8620 tonnes respectively.	The position of reserve and resource as on 01/04/2019 was 28378 and 8620 tonnes respectively.	Depletion of 3662 tonnes during 2018-19.
1f	General remarks of inspecting officers on geology, exploration etc	Exploration has been proposed through two exploratory BH.	Exploration has not been carried out as per proposal.	Violation of MCDR issued vide letter dated 10/02/2010.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Development has been proposed between grid line N110 to N245 and E25 to W80.	Development has been carried out within approved proposal.	NIL.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil generation. Separate benches have been proposed in Overburden and mineral.	Top soil has not been generated. Separate benches have been developed in OB and Mineral.	Overburden has been observed in the form of sandy soil.
2c	Stripping ratio or ore to OB ratio	1:3.60 CuM/T	1:7.71 CuM/T	Violation of MCDR issued vide letter dated 10/02/2010.
2d	Quantity of topsoil generation in m3	No proposal of top soil generation.	No top soil has been generated.	NIL.
2e	Quantity of overburden generation in m3	66932 CuM.	24600 CuM as reported. 39360 tonnes.	NIL.
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 during the reporting year.	NIL.

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	18600 Tonnes.	3662.00 tonnes.	Low production due to less market demand.
3c	Recovery of sailable/usable mineral from ROM production	16740.00 Tonnes.	3662.00 tonnes.	No reject generation has been reported.
3d	Quantity of mineral reject generation	1860 tonnes.	No mineral reject generation as anticipated.	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.	As per proposal.	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.	Drilling and blasting has not been observed.	NIL.
3k	Provision of mining machineries in mineral benches	Excavator, Tractor-Trolley, water pump fitted on the tractor.	Excavator, Tractor-Trolley, water pump fitted on the tractor.	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 6 mts in OB and 2 mts in Mineral.	Height of the benches could not be observed as pit has been backfilled.	NIL.
3m	Total area covered under excavation/pits	As per approved document dated 08/06/2018, an area of 3.67 Ha (including reclaimed area of 1.64 Ha. area) has been proposed to put in use at the end of the plan period i.e. 2022-23.	As reported an area around 2.41 ha has been utilized under excavation and reclamation as on 01/04/2019.	NIL.
3n	Ore to OB ratio for the pit/mine during the year.	1:3.60 CuM/T	1:7.71 Cu/T	Violation of MCDR issued vide letter dated 10/02/2010.

3o	Total area put in use under different heads at the end of year	As per approved document dated 08/06/2018, an area of 3.67 Ha (including reclaimed area of 1.64 Ha. area) has been proposed to put in use at the end of the plan period i.e. 2022-23.	As reported an area of 2.41 ha. area has been put under different heads.	NIL.
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 17280 2015-16: 17700 2016-17: 17700 2017-18: 19950 2018-19: 18600	2014-15: 10745 2015-16: 17285 2016-17: 15863 2017-18: 5290 2018-19: 3662	All figures in 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
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal of top soil generation. Simultaneous backfilling has been proposed for waste generation.	Top soil has not been generated. Waste generated has been backfilled.	NIL.
4b	Location of topsoil, OB and mineral reject dumps	No proposal of dumping.	Not applicable as no proposal.	NIL.
4c	Number of dumps within lease area and outside of lease area	As per approved document dated 08/06/2018, no proposal of waste dumping.	Waste generated has been backfilled.	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal of waste dumping during the reporting year.	Generated waste has been backfilled as per proposal.	NIL.

4e	Number of active and alive dumps.	No proposal of active and alive dumping.	Not applicable as no proposal.	NIL.
4f	Number of dead dumps.	No proposal.	Not applicable.	NIL.
4g	Number of dumps established.	No proposal.	Not applicable.	NIL.
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal of Retaining wall and Garland drain during the reporting year.	Not applicable as waste has been backfilled.	NIL.
4i	Length of Retaining wall or garland drain all along dumps	No proposal of Retaining wall and Garland drain during the reporting year.	Not applicable as no proposal.	NIL.
4j	Number of settling ponds	No proposal of construction of settling pond.	Not applicable as no proposal.	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.

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 0.88 Ha has been proposed for full extraction of mineral.	An area of around 0.41 Ha. has been extracted fully.	NIL.
5b	Area under backfilling of mined out area	An area of 0.88 Ha has been proposed to backfill.	An area of 0.74 Ha. has been backfilled during the reporting year. However, total area of 2.41 Ha. has been backfilled.	NIL.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of top soil generation.	Not applicable as no proposal.	NIL.

5d	Total area fully reclaimed and rehabilitated	An area of 0.88 Ha has been proposed to reclaim during the reporting year.	An area of 0.74 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.

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 2018-19 has been submitted.	Violation of MCDR issued vide letter dated
6b	Area available for rehabilitation (ha) .	An area of 0.04 Ha has been proposed to rehabilitation /afforestation .	As reported around 0.20 Ha area has been planted during the year.	Within lease area.
6c	afforestation done (ha).	An area of 0.04 Ha has been proposed to rehabilitation /afforestation .	As reported around 0.20 Ha area has been planted during the year.	Within lease area.
6d	No. of saplings planted during the year	100 numbers of the saplings has been proposed to plant.	Within lease area 200 and outside lease area 150 saplings has been planted.	As per AR 2018-19.
6e	Cumulative no .of plants	200 number of trees (2018-19 to 2019-20) as per approved document dated 08/06/2018.	Cumulatively 200 within lease area and 150 outside of the lease area has been planted.	NIL.

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. 60000/- only.	Rs. 239390/- as reported.	NIL.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	An area of 0.88 Ha has been proposed to backfill.	An area of 0.74 Ha. has been backfilled during the reporting year.	NIL.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	66932 CuM.	18800 CuM.	NIL.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation 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	Planation over 0.04 Ha area.	About 0.20 ha has been planted.	Mostly Gap filling.

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.04 Ha.	0.20 Ha.	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)	Regular 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 0.04 ha with 100 numbers of saplings has been proposed.	An area of around 0.20 has been planted with 200 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.	Grade-wise sorting has been carried out.	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)	No proposal of top soil generation during the year 2018-19.	Not applicable as no proposal of top soil generation.	Sandy soil has been proposed to generate and backfill.
8b	Concurrent use or storage of topsoil	Not applicable as no proposal of top soil generation.	Not applicable.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste has been proposed to backfill and reject has been proposed to utilize for blending.	Generated waste has been backfilled. No generation of reject and fines.	NIL.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Simultaneous backfilling of OB/Sandy Soil.	As per proposal.	NIL.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	An area of 0.88 Ha has been proposed to reclaim.	An area of 0.74 Ha. has been reclaimed during the reporting year.	NIL.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Planation over 0.04 ha with 100 numbers of saplings has been proposed.	An area of 0.20 has been planted with 200 numbers of saplings within lease area.	NIL.
8g	Survival rate	No specific proposal	About 30%.	Less survival rate is due to lease area under desert zone.
8h	Water sprinkling on roads to control airborne dust	No proposal.	Water sprinkling has been observed through water tanker.	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 200 and outside lease area 150 saplings has been planted.	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 and annual returns to be submitted.	Monthly and annual returns have been submitted for reporting year.	NIL.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information has been furnished about Mining Engineer.	Mining engineer was present at the time of the inspection.	NIL.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already exploited & abandoned by opencast (O/C) mining: 2.115 Ha, Covered under current (O/C) Workings:0.41 Ha, Reclaimed and rehabilitate: 0.615 Ha.	The information furnished appears to be incorrect.	Violation of MCDR issued vide letter dated 10/02/2010.
9d	Scrutiny of Annual return on afforestation	Plantation within lease area: 200 numbers and outside of the lease area 150 numbers.	Information of afforestation furnished appears to correct.	NIL.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Information on Mineral reject generation furnished is 300 tonnes.	No mineral reject has been generated.	Violation of MCDR issued vide letter dated 10/02/2010.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: NIL and graded stock: 1302.571 tonnes.	Found in order.	NIL.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price is Rs. 850 per tonnes and cost of production furnished is Rs. 770.00 per tonnes.	Information furnished has been found to correct.	NIL.
9h	Scrutiny of Annual return on fixed assets	The value of fixed asset furnished is NIL.	The information furnished found to correct.	NIL.
9k	Scrutiny of Annual return on mining machineries	Back Hoe 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 cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	10-FEB-20			
MCDR17	Rule 33	10-FEB-20			
MCDR17	Rule 45(7)(a)	10-FEB-20			

Date :

(DILIP JAIN)

Indian Bureau of Mines