

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/BMR-18/GYP-11

**Mine code :** 29RAJ04013

- (i) Name of the Inspecting : **DJ03** ) **DILIP JAIN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sh. B.S. Rathore, Mine Manager  
Official with  
Designation
- (iv) Date of Inspection : 30-JAN-20
- (v) Prev.inspection date : 19-DEC-16

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **THOB-1**
- (b) **Registration NO.** : **IBM/5108/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :  
State : RAJASTHAN  
District : BARMER  
Village : THOB  
Taluka : PACHPADRA  
Post office : THOB  
Pin Code : 344032  
FAX No. : 0151-2523519  
E-mail : rsmmlgyp@vsnl.com  
Phone : 0151-2542291
- (f) Police Station :
- (g) First opening date : 07-FEB-00
- (h) Weekly day of rest : SUN
2. Address for : Rajasthan State Mines and Minerals Ltd  
correspondance : Sadul club Building  
Bikaner, Rajasthan
3. (a) Lease Number : RAJ0445
- (b) Lease area : 126.77
- (c) Period of lease : 20
- (d) Date of Expiry : 06-JAN-14
4. Mineral worked : GYPSUM Main

## 5. Name and Address of the

Lessee : RAJASTHAN STATE MINES & MINERALS LTD.  
 RSMM LTD., GYPSUM DIVN.  
 SADUL CLUB BUILDING,  
 BIKANER BIKANER RAJASTHAN  
 Phone:0151-2523295, 2544178, 2542291, 2542133  
 FAX :0151-2523519

Owner : Sh. Somnath Mishra, IAS  
 4-Meera Marg, Udaipur-  
 313004 BARMER RAJASTHAN  
 Phone: 0294-2428763  
 FAX : 0294-2428770

Agent : Sh. A. K. Chaudhary  
 2- Gandhi Nagar, RSMML  
 Bikaner-334001 BARMER  
 RAJASTHAN  
 Phone: 9413318019  
 FAX :

## Mining Engineer

Name : Sh. B.S. Rathore, Full Time  
 Qualification : BE Mining  
 Appointment/ : 29-JUL-14  
 Termination date

## Geologist

Name : Sh. D. S. Acharya, Full Time  
 Qualification : M.Sc. Geology  
 Appointment/ :  
 Termination date

## Manager

Name : Sh. B.S. Rathore  
 Qualification : BE Mining  
 Appointment/ : 29-JUL-14  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP review under 17(1) MCR 2016 22-AUG-17

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal for the year 2017-18.	Not applicable.	NIL.
1b	Exploration over lease area for geological axis 1 or 2	A total of 10 prospecting pit has been proposed.	No exploration.	Violation of MCDR issued vide letter dated 28/02/2020.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee, Rajasthan State Mines and Minerals Ltd.	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.	Not applicable.	NIL.
1e	Balance reserve as on 01/04/20	As per approved document dated 22/08/2017, the position of reserve and resource was 94081 and 20300 tonnes respectively.	The position of reserve and resource as on 01/04/2019 was 91606.71 and 20300 tonnes respectively.	Depletion of 2474.29 tonnes during 2017-18 to 2018-19.
1f	General remarks of inspecting officers on geology, exploration etc	A total of 10 exploratory pits have been proposed.	No exploration during reporting year.	No geological complexity in the deposit.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1255 to N1433 and E1520 to E1625.	Within approved proposal.	NIL.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Single bench working has been proposed.	Working has been observed as per proposal.	NIL.
2c	Stripping ratio or ore to OB ratio	1:1.90 CuM/ton	1:1.50Cu/ton	Less OB generation due to less production.

2d	Quantity of topsoil generation in m3	13587 CuM	2042 tonnes or 3066 CuM (as reported during inspection). No account has been maintained.	OB has been considered as top soil. The top soil is highly saline and difficult to support for vegetation.
2e	Quantity of overburden generation in m3	13587 CuM	2042 tonnes or 3066 CuM (as reported during inspection). No account has been maintained.	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.	Develop has been carried out as per proposal.	Open cast method of development is suitable as the mineral occurs near surface.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit.	Single Pit.	NIL.
3b	Quantity of ROM mineral production proposed	7174 tonnes	2045 tonnes	Low production is due to low market demand.
3c	Recovery of sailable/usable mineral from ROM production	50%	100%	No mineral reject generation as anticipated.
3d	Quantity of mineral reject generation	3227 tonnes	No mineral reject generation.	NIL.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	Not applicable as no mineral reject generation.	NIL.
3f	Quantity of sub grade mineral generation.	359 tonnes.	No sub-grade generation.	NIL.
3g	Grade of sub grade mineral generation	No proposal.	Not applicable as no sub-grade generation.	NIL.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical.	Mechanical.	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.	Not applicable.	NIL.
3k	Provision of mining machineries in mineral benches	Excavator, Tractor-Scraper, Water Sprinkler, etc.	Excavator, Tractor, Water Sprinkler, etc.	NIL.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Single bench working has been proposed up to the Mineral.	Working has been observed as per proposal.	NIL.
3m	Total area covered under excavation/pits	As per approved document dated 11/09/2013, an area of 12.746 Ha has been proposed to put in use at the end of the plan period i.e. 2021-22.	Area under excavation for the year 2018-19 has not been reported.	Violation of MCDR issued vide letter dated 28/02/2020.
3n	Ore to OB ratio for the pit/mine during the year.	1:1.90 CuM/ton	1:1.50Cu/ton	Less OB generation due to less production.
3o	Total area put in use under different heads at the end of year	As per approved document dated 11/09/2013, total area of 13.806 Ha has been proposed to put in use at the end of the plan period i.e. 2021-22.	Total area used under different heads has not been reported.	NIL.
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 7173 2015-16: 7232 2016-17: 7011 2017-18: 7078 2018-19: 7174	2014-15: 0.00 2015-16: 8217 2016-17: 3383 2017-18: 469.29 2018-19: 2045	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.
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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)	Waste/topsoil has been proposed to backfill in mine our area.	Waste/top soil generated has been backfilled in mine out area. No mineral reject generation.	NIL.
4b	Location of topsoil, OB and mineral reject dumps	Waste/topsoil has been proposed to backfill in mine our area.	Waste/top soil generated has been backfilled in mine out area.	NIL.
4c	Number of dumps within lease area and outside of lease area	No proposal of waste dumping.	Not applicable.	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Waste/topsoil has been proposed to backfill in mine our area.	Waste/top soil generated has been backfilled in mine out area.	NIL.
4e	Number of active and alive dumps.	No proposal.	Not applicable.	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 or garland drain.	Not applicable as no proposal.	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 mine out area.	Waste has been backfilled in exhausted part of the pit.	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.	Backfilling after full extraction of mineral.	Backfilling commenced after full extraction of mineral.	NIL.
5b	Area under backfilling of mined out area	1.08 Ha area of mine out area.	Area of backfilling has not reported.	Violation of MCDR issued.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No specific proposal of top soil generation.	The top soil is highly saline and difficult to support for vegetation.	NIL.
5d	Total area fully reclaimed and rehabilitated	No proposal.	Total area reclaimed has also not been reported.	Violation of MCDR issued vide letter dated 28/02/2020.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Waste generated has been proposed to backfilled in mine out area.	Generated waste has been backfilled in 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 not been submitted.	Violation of MCDR issued vide letter dated 28/02/2020
6b	Area available for rehabilitation (ha) .	1.57 ha	Not reported.	Violation of MCDR issued.
6c	afforestation done (ha).	1.00 Ha.	Not reported area of plantation. Except thorny babool, no other species are grown due to high salinity in the rea.	Violation of MCDR issued for non-submission of PMCP report.
6d	No. of saplings planted during the year	500 plants.	Not reported.	Violation of MCDR issued for non-submission of PMCP report.

6e	Cumulative no .of plants	7800 saplings.	Not reported.	NIL.
6f	Any other method of rehabilitation	Other than any other method of rehabilitation	Not applicable as no proposal.	NIL.
6g	Cost incurred on watch and care during the year	Not specified.	Not applicable.	NIL.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal.	Not applicable.	NIL.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.08 Ha area of mine out area.	Area of backfilling has not reported.	Violation of MCDR issued.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal.	Not applicable.	NIL.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Not applicable.	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	No proposal.	Not applicable.	NIL.



6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal.	Not applicable.	NIL.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal.	Not applicable.	NIL.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed for environmental monitoring.	Environment monitoring has been carried out.	NIL.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Planation over 1.0 ha with 500 numbers of saplings has been proposed.	The annual return of PMCP under rule 26 has not been submitted for the year 2018-19.	Violation of MCDR issued vide letter dated 28/02/2020.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Sorting form ROM has been proposed.	Sorting of mineral observed.	NIL.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical.	Mechanical.	NIL.
7c	Different grade of mineral sorted out at mines.	Saleable and Reject. No specific grade.	As per proposal.	NIL.
7d	Any beneficiation process at mines .	No beneficiation process at the mine. Only sorting segregation of waste (clay) and mineral.	Wet scrubbing/tumbling of ROM along with screening.	NIL.

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Wet processing of rom through scrubbing/tumb ling along with screening.	Processing has been observed as per proposal.	No issued related to Mineral conservation.
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	13857 CuM of top soil/ OB has been proposed to remove.	3066 CuM of top soil/ OB has been removed as reported.	Actual figure as reported during mine inspection.
8b	Concurrent use or storage of topsoil	Proposed for backfilling.	As per proposal.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal of any dumping.	Not applicable as no proposal.	NIL.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB has been proposed to use for backfilling.	OB backfilled in mine out area.	NIL.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phase restoration by backfilling.	Backfilling done.	NIL.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	500 saplings during the year 2018-19.	Not reported.	Violation of MCDR issued dated 28/02/2020.
8g	Survival rate	Not specified.	Not applicable as no proposal.	NIL.

8h	Water sprinkling on roads to control airborne dust	Water sprinkling has been proposed.	Water sprinkling observed.	NIL.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Proposal of backfilling and plantation has been envisaged.	Backfilling and plantation has been carried out.	The general aesthetic beauty of in and around mine was satisfactory as mine is mostly in non-working state.

#### 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 Mine Manager and Geologist.	Mining Engineer, Geologist and Mine Manager has been appointed.	Scrutiny of AR 2018-19.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern has not been furnished as NIL (Zero) in the AR 2018-19.	No information has been furnished.	Violation of MCDR issued dated 28/02/2020.
9d	Scrutiny of Annual return on afforestation	Information on afforestation furnished as NIL.	Planation work carried out.	Violation of MCDR issued for non-reporting vide dated 28/02/2020.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Generation of mineral reject of 46 tonnes has been furnished.	No mineral reject has been generated.	Violation of MCDR issued dated 28/02/2020.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM and graded stock closing stock: NIL	Found to correct.	NIL.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price: Rs 4089720.00 & production cost is Rs. 1157.63 prt tonne.	Ex-mine price has been furnished in higher side.	Violation of MCDR issued dated 28/02/2020.
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.	It is stated that most of the HEMM are on contract basis.	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)	28-FEB-20		MCDR17 Rule 11(1)	28-FEB-20	28-MAY-21
MCDR17 Rule 26(2)	28-FEB-20		MCDR17 Rule 26(2)	28-FEB-20	28-MAY-21
MCDR17 Rule 45(7)(a)	28-FEB-20		MCDR17 Rule 45(7)	28-FEB-20	28-MAY-21

**Date :**

**(DILIP JAIN)**

Indian Bureau of Mines