

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/BRM-19/GYP-12

Mine code : 29RAJ04012

- (i) Name of the Inspecting : **DJ03**) **DILIP JAIN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sri P. Leela Kumar, Manager Survey, Sri Imran Ali, Ma
Official with
Designation
- (iv) Date of Inspection : 23-MAR-22
- (v) Prev.inspection date : 19-DEC-16

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **THOB-2**
- (b) **Registration NO.** : **IBM/5158/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : RAJASTHAN
District : BARMER
Village : THOB
Taluka : PACHPADRA
Post office : THOB
Pin Code :
FAX No. : 0151-2523519
E-mail : md.rsmml@rajasthan.gov.in
Phone : 0151-2542291
- (f) Police Station : Baltora
- (g) First opening date : 26-AUG-97
- (h) Weekly day of rest : SUN
2. Address for : Rajasthan State Mines & Minerals Ltd.
correspondance Sadul club Building
Bikaner, Rajasthan
3. (a) Lease Number : RAJ0444
(b) Lease area : 263.08
(c) Period of lease : 20
(d) Date of Expiry : 29-MAR-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 : B. P. Yetru, IAS
M/S RSMM Ltd. 4- Meera
Marg, Udaipur UDAIPUR
RAJASTHAN
Phone:
FAX :

Agent : P. P. Mathur
M/S RSMM Ltd. 2- Gandhi
Nagar Scheme, Bikaner (Raj)
BIKANER RAJASTHAN
Phone:
FAX :

6. Date of approval of Mining : MP review under 17(1) MCR 2016 23-AUG-17
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 during the previous year 2019-20.	Not applicable as no proposal.	No backlog of previous year.
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration for reporting year (RY) 2020-21.	A total of 10 exploratory pits have been dug.	NIL.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal on exploration agency and expenditure.	Exploratory pits done by M/s RSMML.	NIL.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No specific proposal of exploration to bring area under G1/G2 level of exploration.	An area of 128.78 hectare yet to explore under G1/G2.	NIL.
1e	Balance reserve as on 01/04/20	As per approved RMP dated 23/08/2017, the position of reserve and resource of Selenite Mineral was 379335.00 tons and 82935.00 tons respectively.	The position of reserve and resources as on 01/04/2021 was 379133.37 tons and 82935.00 tons respectively.	Total depletion of 201.63 tons during 2017-18 to 2020-21.
1f	General remarks of inspecting officers on geology, exploration etc	No proposal of exploration.	A total of 11 exploratory pits have been dug.	The deposition of Selenite Mineral is near to surface and occurs in layer intercalated with silty material.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E1477 to 1699/N1533 to 1743	Development observed within approved proposal of the RMP dated 23/08/2017.	NIL.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil generation. Separate excavation has been proposed for mineral and waste.	No top soil generation. Separate excavation in mineral and benches.	NIL.
2c	Stripping ratio or ore to OB ratio	1:3.62 CuM/T	1:3.75 CuM/T	NIL.
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	47709 CuM or 52480 T	1500 CuM or 1650 T	Less OB generation due to less development in account of COVID - 19 pandemic and low market demand of Selenite mineral.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Opencast method of the development has been proposed.	Development carried out through open cast method as proposed.	Development has been carried out through open pit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single.	Single.	NIL.
3b	Quantity of ROM mineral production proposed	14461.00 tons	400.00 Tons	Less production due to Covid -19, low market demand.
3c	Recovery of sailable/usable mineral from ROM production	7231.00 tons	201.63 Tons	Less production due to Covid -19, low market demand.
3d	Quantity of mineral reject generation	723.00 tons	200.00 tons	Screen Reject has been mentioned as Mineral reject.
3e	Grade of mineral rejects generation and threshold value declared.	Not specified.	Not applicable.	NIL.

3f	Quantity of sub grade mineral generation.	No proposal.	Not applicable.	Information given in MR generation para.
3g	Grade of sub grade mineral generation	Not specified.	Not applicable.	NIL.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised.	Mechanised.	NIL.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No specific proposal of beneficiation study for sub-grade mineral/reject during RY.	No beneficiation study carried out during RY.	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, 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	47.99 hectare (including reclaimed area) at the end of the plan period i.e. 2021-22.	34.81 hectare (including reclaimed area) at the end of 2020-21.	As per Annual Return (AR) 2020-21.
3n	Ore to OB ratio for the pit/mine during the year.	1:3.62 CuM/T	1:3.75 CuM/T	NIL.
3o	Total area put in use under different heads at the end of year	A total of 49.05 hectare at the end of 2021-22.	36.83 hectare at the end of 2020-21.	As per AR.
3p	Production of ROM mineral during the last five year period as applicable	2017-18: 14355 2018-19:14501 2019-20: 14419 2020-21: 14461	2017-18: NIL 2018-19: NIL 2019-20: NIL 2020-21: 400.Tons	Figures in tones. Less production due to low market demand.

3q	General remarks of inspecting officers on method of mining etc.	Opencast method of mining has been proposed.	Opencast method mining was practiced.	Opencast method of mining adopted which is best suited to the type of deposit.
----	---	--	---------------------------------------	--

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. Waste proposed to backfilled in mine out area.	No top soil generation. Waste generated has been backfilled.	NIL.
4b	Location of topsoil, OB and mineral reject dumps	No proposal of top soil generation. Waste proposed to backfilled in mine out area.	No top soil generation. Waste generated has been backfilled.	NIL.
4c	Number of dumps within lease area and outside of lease area	No proposal of waste dumps.	Not applicable.	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Waste proposed to backfilled in mine out area.	Not applicable.	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 was proposed to backfill in mine out area.	Waste has been backfilled in exhausted part of the pit.	No issue 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	3.20 hectare	0.09 hectare.	As per AR. Less area backfilled due to less working in account of covid-19 and low market demand.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of top soil generation.	No top soil generation.	NIL.
5d	Total area fully reclaimed and rehabilitated	No proposal of full reclamation and rehabilitation of mine out area.	Not applicable.	NIL.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Waste proposed to backfilled in mine out area.	Waste generated has been backfilled.	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 for the year 2020-21 has not been submitted. .	Violation of rule 26(2) issued vide letter dated 13/04/2022.
6b	Area available for rehabilitation (ha) .	3.20 hectare area proposed for rehabilitation /afforestation .	NIL.	Violation of rule 11(1) issued vide letter dated 13/04/2022.
6c	afforestation done (ha) .	3.20 hectare area proposed for rehabilitation /afforestation .	NIL.	Violation of rule 11(1) issued vide letter dated 13/04/2022.
6d	No. of saplings planted during the year	500 number of saplings.	NIL.	Violation of rule 11(1) issued vide letter dated 13/04/2022.
6e	Cumulative no .of plants	No specific proposal on cumulative number of plants.	Not applicable.	NIL.
6f	Any other method of rehabilitation	Other than plantation, no proposal of any other method of rehabilitation .	Not applicable as no proposal of any other method of rehabilitation.	NIL.
6g	Cost incurred on watch and care during the year	No proposal.	Not applicable.	NIL.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	3.20 hectare	0.09 hectare.	Less area backfilled due to less working in account of covid-19 and low market demand.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	47709 CuM or 52480 T	1500 CuM or 1650 T	NIL.

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	3.20 Hectare.	NIL.	Violation of MCDR issued.
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.	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	Plantation.	No plantation.	Violation of MCDR issued.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Provision for monitoring of environment parameter has been given.	Environment monitoring is being carried out in core and buffer zone.	NIL.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Total of 500 numbers of plants have been proposed to plant.	No plantation. Violation of MCDR issued.	Natural bushes have been grown in the area.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

7a	ROM Mineral dispatch or grade-wise sorting within lease area	Sorting of Selenite Crystal from ROM.	As per proposal.	Processing of ROM through scrubbing/tumbling .
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 screen Reject. No specific grade.	Selenite crystals were sorted out from ROM.	NIL.
7d	Any beneficiation process at mines .	No beneficiation process.	Not applicable.	NIL.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Processing of ROM through scrubbing/tumbling.	Selenite crystals were sorted out from ROM.	No beneficiation process other than processing of ROM through scrubbing/tumbling .

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation.	No top soil has been generated.	NIL.
8b	Concurrent use or storage of topsoil	No proposal of top soil generation.	No top soil has been generated.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB/Waste proposed to backfilled.	OB/Waste was backfilled.	NIL.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB/Waste proposed to backfilled for restoring the land to its original use.	OB/Waste was backfilled.	NIL.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Simultaneous backfilling was proposed by OB, waste etc. for land restoration.	Simultaneous backfilling.	NIL.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	A total of 500 saplings during the year 2020-21.	NIL.	Violation of Rule 11(1) of MCDR, 2017 issued vide letter dated 13/04/2022.
8g	Survival rate	No proposal.	Not applicable.	NIL.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads.	Water sprinkling observed.	NIL.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Backfilling and plantation was proposed.	OB/Waste generated during the year has been backfilled.	The general aesthetic beauty of in and around mine was satisfactory.

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, 2017 monthly and annual returns to be submitted.	Monthly and Annual Retunes have been submitted for RY.	NIL.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	No information on Mining Engineer. Information on Geologist has been furnished.	Mining Engineer and Geologist have not been appointed.	Violation of Rule 55 of MCDR, 2017 issued vide letter dated 13/04/2022.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Opencast working: 34.90 Hect. Reclaimed and Rehabilitated: 0.135 Hect. Infrastructure : 1.06 Hect. and PMCP: 0.135 Hect.	The details have not been furnished correctly.	Violation of Rule 45(7) of MCDR, 2017 issued vide letter dated 13/04/2022.

9d	Scrutiny of Annual return on afforestation	Within lease area: NIL. Outside lease area: NIL.	No plantation within lease area.	Violation of MCDR issued.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Generation of mineral reject has been furnished.	No mineral reject generation.	Screen Reject has been mentioned as Mineral reject.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: NIL and Graded ore stock: NIL.	Found in order.	NIL.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine Price: Rs. 1500 per tons. Production Cost: RS. 3522.60 per tons.	Figures of cost of production were found incorrect.	Violation of Rule 45(7) of MCDR, 2017 issued vide letter dated 13/04/2022.
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset has been furnished as Rs. 0.	Found in order.	NIL.
9k	Scrutiny of Annual return on mining machineries	Others (non-elec)	Found in order.	Contractual machines.

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-APR-22	20-JUN-22	MCDR17	Rule 55 (1)	18-APR-22 12-OCT-22
MCDR17	Rule 12 (4)	18-APR-22	20-JUN-22			
MCDR17	Rule 26 (2)	18-APR-22	20-JUN-22			
MCDR17	Rule 55 (1) (3)	18-APR-22				
MCDR17	Rule 45 (7) (a)	18-APR-22	20-JUN-22			
MCDR17	Rule 35 (4)	18-APR-22	20-JUN-22			
MCDR17	Rule 11 (1)	13-APR-22				
MCDR17	Rule 12 (4)	13-APR-22				
MCDR17	Rule 26 (2)	13-APR-22				
MCDR17	Rule 55 (1) (3)	13-APR-22				
MCDR17	Rule 35 (4)	13-APR-22				
MCDR17	Rule 45 (7) (a)	13-APR-22				

Date :

(DILIP JAIN)

Indian Bureau of Mines