

**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 : **26** ) **Nishant kumar rao**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompaning mine : Sh. B.S. Rathore, Assistant Manager (Mining) & Mines  
Official with  
Designation
- (iv) Date of Inspection : 25-JUN-24
- (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 : 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 22-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	40 pits	0	
1b	Exploration over lease area for geological axis 1 or 2	48 Pits	0	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	0	
1d	Balance area to be explored to bring Geological axis in 1 or 2	11.97 Hectares	0	
1e	Balance reserve as on 01/04/20	89174.00 Ton	95834.27 Ton	
1f	General remarks of inspecting officers on geology, exploration etc			Exploration not done as targeted in mine plan

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2885955N to 2886202N 241968E to 242210E	as proposed	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Single bench working	As proposed	
2c	Stripping ratio or ore to OB ratio	1:1.72 Ore to OB ratio	1:1.72 Ore to OB ratio	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	12762	2443	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	OK ,OB genrated is not as per target
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production		As proposed	
3b	Quantity of ROM mineral production proposed	7381 t	1247 t	
3c	Recovery of sailable/usable mineral from ROM production	3690 t	623 t	
3d	Quantity of mineral reject generation	3690 t	624 t	
3e	Grade of mineral rejects generation and threshold value declared.	<50%	40% CaSO4 2H2O	
3f	Quantity of sub grade mineral generation.	NA	NA	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	
3j	Provision of drilling and blasting in mineral benches	NA	NA	

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3k	Provision of mining machineries in mineral benches	Backhoe excavator	As proposed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	1.25 m	1.25 m	
3m	Total area covered under excavation/pits	1.41ha	0.43 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.72 ore to OB ratio	1:1.72	
3o	Total area put in use under different heads at the end of year	1.99 ha	1.01 ha	
3p	Production of ROM mineral during the last five year period as applicable	2022-23: 7240 ton 2023-24: 7381 ton	2022-23: 35 ton 2023-24: 1240 ton	
3q	General remarks of inspecting officers on method of mining etc.			Production not achieved as per mine plan

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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)	Not applicable	Not applicable	
4b	Location of topsoil, OB and mineral reject dumps	2885952N to 2886066N 242189E to 242297E	As proposed	
4c	Number of dumps within lease area and outside of lease area	NA	NA	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	
4e	Number of active and alive dumps.	NA	NA	
4f	Number of dead dumps.	NA	NA	
4g	Number of dumps established.	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management			Waste management is found ok

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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.	Complete extraction of mineral selenite before backfilling	As proposed	
5b	Area under backfilling of mined out area	1.41 ha	0.427 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	
5d	Total area fully reclaimed and rehabilitated	9.47 ha	8.487 ha	

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5e	General remarks of inspecting officers on backfilling and reclamation etc.	Backfilling not done as per mine plan
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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).	Yes	Submitted	
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	1.41 ha	0	
6d	No. of saplings planted during the year	400	0	Due to heavy rain area was submerged in water
6e	Cumulative no .of plants	3220	3020	
6f	Any other method of rehabilitation	NA	N A	
6g	Cost incurred on watch and care during the year	Rs.40000/-	Rs.6000/- appox	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	12762 cub mtr	1494.5 cub mtr	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	12760 cub mtr	1494.5 cub mtr	

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	14100 sq mtr	0	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	14100 SQ MTR	0	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	na	NA	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	As proposed	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation and void not backfilled as proposed .

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Mineral Conservation:

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Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Selenite: 3690 ton.	Selenite:623.05ton	Low Grade Selenite fines:2642.31 ton So Total: 3265.36 ton
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	
7c	Different grade of mineral sorted out at mines.	Selenite: +90% Rejects :<50% In terms of CaSO4 2H2O	As proposed	
7d	Any beneficiation process at mines .	Dry screening of ROM Selenite	As proposed	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Low grade selenite fines genrated 2642.31 t and no cut off grade is being define by IBM for the same .However same can be used in the grey cement

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed for mineral reject stack	As proposed	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB is used for concurrent backfilling in mined out area.	As proposed	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Mining pits are being backfilled simultaneously and restored its original level.	As proposed	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NA	NA	
8g	Survival rate	70%	20%	
8h	Water sprinkling on roads to control airborne dust	5 KLD	As proposed	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Poor survival rate of plant due to desert

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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Month return submitted up to March 2024 and Annual return submitted for 23-24	Submitted on time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details provided	Appointed as per rule 45	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Provided	checked	ok

9d	Scrutiny of Annual return on afforestation	provided		Not achieved as per target
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Provided	Remaining 3595.3 t with 40% grade at site	During the year 2642.31 t low grade is sold out
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Provided	Ok	Found ok
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Provided	Ok	OK
9h	Scrutiny of Annual return on fixed assets	Details provided	All column showing zero value	Inform lessee to rectify the same
9k	Scrutiny of Annual return on mining machineries	Provided	OK	OK

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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

**Date :**

**(Nishant kumar rao)**

Indian Bureau of Mines