

**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 : **26**) **Nishant kumar rao**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh B.S Rathore, Sh Imran Ali
Official with
Designation
- (iv) Date of Inspection : 26-JUN-24
- (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 : B Manual
- (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 : rsmmlgyp@vsnl.com
Phone : 0151-2542291
- (f) Police Station :
- (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	40 pit	0 pit	Deviation highlighted to lessee
1b	Exploration over lease area for geological axis 1 or 2			
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	58.15Hectares (total)	0	deviation pointed out to lessee
1e	Balance reserve as on 01/04/20	229381.00 ton	241839.66 Ton	deviation pointed out to lessee
1f	General remarks of inspecting officers on geology, exploration etc			Violation given to lessee for not carrying out exploration

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2885214.92N to 2885509.51N 240283.47E to 240623.52E	2885214.92N to 2885509.51N 240283.47E to 240623.52E	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Single bench working	Single bench working	-
2c	Stripping ratio or ore to OB ratio	1:2.45 Ore to OB ratio	1:2.45 Ore to OB ratio	-
2d	Quantity of topsoil generation in m3	nil	nil	desert area
2e	Quantity of overburden generation in m3	35636m3	5300m3	deviation point out to lessee

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Deviation point out to lessee
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	-
3b	Quantity of ROM mineral production proposed	14509 ton	2015 t	
3c	Recovery of sailable/usable mineral from ROM production	7254 ton	1007.65 ton	
3d	Quantity of mineral reject generation	7254 ton	1007 ton	
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	

3k	Provision of mining machineries in mineral benches	Backhoe Excavator, tipper	Backhoe Excavator, tipper	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	1.78 mt	1.70 mtr	
3m	Total area covered under excavation/pits	2.54 ha	0.328 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:2.45 Ore to OB ratio	1:2.45 Ore to OB ratio	
3o	Total area put in use under different heads at the end of year	4.60 ha	2.388 ha	
3p	Production of ROM mineral during the last five year period as applicable	2022-23: 14336 ton 2023-24: 14509 ton	2022-23: 309.69 ton 2023-24: 1007.65 ton	deviation point out to lessee
3q	General remarks of inspecting officers on method of mining etc.			Violation given for less production

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	na	na	
4b	Location of topsoil, OB and mineral reject dumps	2885557 N to 2885676N 240653E to 240780E	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		-

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	Complete extraction of mineral selenite before backfilling	-
5b	Area under backfilling of mined out area	2.54 ha	0.328 ha	deviation pointed out
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	na	na	no top soil as area is desert
5d	Total area fully reclaimed and rehabilitated	39.94 ha	35.448 ha	deviation point out to lessee

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Deviation point out to lessee for less backfilling
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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	yes	yes	
6b	Area available for rehabilitation (ha) .	na	na	
6c	afforestation done (ha).	2.51 ha	0 hac	deviation point out to lessee
6d	No. of saplings planted during the year	2500 plants	0	deviation point out to lessee
6e	Cumulative no .of plants	12036	10036	deviation point out to lessee
6f	Any other method of rehabilitation	na	na	-
6g	Cost incurred on watch and care during the year	Rs.250000/-	Rs.18000/- Approx.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	35636 m3	1377.6 m3	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	35636 m3	1377.6 m3	deviation point out to lessee

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	25100 m2	0	deviation point out to lessee
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	25100 m2	0	deviation point out to lessee
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)	yes	yes	ok
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			deviation point out to lessee for plantation

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Selenite: 14509 ton	Selenite: 1007.65 ton, Low Grade Selenite fines:4232.77 ton Total: 5240.42 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 propoed	
7d	Any beneficiation process at mines .	Dry screening of ROM Selenite	Dry screening of ROM Selenite	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			recovery of selenite is less and low grade selenite is stocked at mines

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 rejects stack	as per 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 prposed	

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 %	deviation point out as well suggested to take help from Cazri
8h	Water sprinkling on roads to control airborne dust	12000 lit	10000 lit	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			As desert area suggested to take help from CAZRI for the plantation & increase the survival rate of plant

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	to be submit	submit on time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	proposed	as per proposal	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	proposed	within proposal	

9d	Scrutiny of Annual return on afforestation	given	given	for less afforestation deviation pointed out
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	proposed	deviated	deviation pointed out to lesee
9f	Scrutiny of Annual return on ROM stock and/or graded ore	provided	deviated from proposed	deviation point out
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	provided	ok	-
9h	Scrutiny of Annual return on fixed assets	provided	ok	-
9k	Scrutiny of Annual return on mining machineries	provided	ok	-

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