

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/BKN-1/GYP-1

Mine code : 29RAJ07006

- (i) Name of the Inspecting : **S012**) **Sharma H.C.**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. Leela Kumar, Forman
Official with
Designation
- (iv) Date of Inspection : 26-FEB-20
- (v) Prev.inspection date : 03-MAY-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **LUNKARANSAR**
- (b) **Registration NO.** : **IBM/5158/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : RAJASTHAN
District : BIKANER
Village : LUNKARANSAR
Taluka : LUNKARANSAR
Post office : LUNKARANSAR
Pin Code :
FAX No. : 0151-523519
E-mail : akchaudhary.rsmml@rajastha
Phone : 0151-523295, 544178,542291
- (f) Police Station :
- (g) First opening date : 01-OCT-77
- (h) Weekly day of rest : FRI
2. Address for : RSMM LTD., GYPSUM DIVN.
correspondance : SADUL CLUB BUILDING,
BIKANER
3. (a) Lease Number : RAJ0403
- (b) Lease area : 145
- (c) Period of lease : 10
- (d) Date of Expiry : 31-OCT-17
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 : Somnath Mishra
 M/S RSMM Ltd. 4- Meera
 Marg, Udaipur UDAIPUR
 RAJASTHAN
 Phone: 02942428763
 FAX :

Agent : A K Chaudhary
 M/S RSMM Ltd. 2 Gandhi
 Nagar, Bikaner BIKANER
 RAJASTHAN
 Phone:
 FAX :

Geologist

Name : Sh D S Acharya, Full Time
 Qualification : MSC (Geology)
 Appointment/ :
 Termination date

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 21-MAY-03
 Plan/Scheme of Mining : MP review under 17(1) MCR 2016 06-JUN-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	78 pits were proposed to be made to 3m depth at 50m X 50m grid during 2018-19.	Proposed exploration had not been carried out.	
1b	Exploration over lease area for geological axis 1 or 2	17.15 ha under G 1 category	17.15 ha under G 1 category	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	M/S RSMM Ltd,, Expenditure not estimated.	None	
1d	Balance area to be explored to bring Geological axis in 1 or 2	17.15ha	17.15ha	
1e	Balance reserve as on 01/04/20	111444 MT in proved 111 category.	111444 MT in proved 111 category estimated as on 01.04.2018	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	Proposed exploration had not been carried out.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	C9,C10, D9, D10	As per the proposal	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Not Applicable	Not Applicable	
2c	Stripping ratio or ore to OB ratio	OB 3.41m3 : 1 ton Ore	OB 3.41m3 : 1 ton Ore	
2d	Quantity of topsoil generation in m3	Not Applicable	Not Applicable	There is no usable top soil

2e	Quantity of overburden generation in m3	49201 m3	The excavated O/B backfilled in excavated area.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The development is as per proposals.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit working	Single pit working	
3b	Quantity of ROM mineral production proposed	14425 MT	1845 MT	
3c	Recovery of sailable/usable mineral from ROM production	9023 MT	1154.33MT	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	>40% CaSO4.2H2O	Not applicable	
3f	Quantity of sub grade mineral generation.	601 MT	Nil	
3g	Grade of sub grade mineral generation	40% CaSO4.2H2O	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not Applicable	

3j	Provision of drilling and blasting in mineral benches	Not Applicable	Not Applicable
3k	Provision of mining machineries in mineral benches	JCB Excavator & Water Sprinkler	JCB Excavator & Water Sprinkler
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Single Bench	Single Bench
3m	Total area covered under excavation/pits	2.48 ha.	0.32Hac.
3n	Ore to OB ratio for the pit/mine during the year.	OB 3.41m ³ : 1 ton Ore	OB 3.41m ³ : 1 ton Ore
3o	Total area put in use under different heads at the end of year	84.24 Hac	82.08 Hac.
3p	Production of ROM mineral during the last five year period as applicable	2015-16 - 15270 MT, 2016-17- 17807 MT, 2017-18- 20083 MT, 2018-19 - 14425 MT	2015-16 - 0.00 MT, 2016-17- 0.00 MT, 2017-18- 0.00 MT, 2018-19 - 1154 MT
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The opencast method with simultaneous backfilling of Waste & reject had been adopted for carrying out the mining operations in the lease area.

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	Not applicable	

4b	Location of topsoil, OB and mineral reject dumps	Not applicable	Not applicable
4c	Number of dumps within lease area and outside of lease area	None as all the waste is backfilled.	Not applicable
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable	Not applicable
4e	Number of active and alive dumps.	Not applicable	Not applicable
4f	Number of dead dumps.	Not applicable	Not applicable
4g	Number of dumps established.	Not applicable	Not applicable
4h	Whether Retaining wall or garland drain all along dumps are there.	Not applicable	Not applicable
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Not applicable
4j	Number of settling ponds	None	Not applicable
4k	Specific comments of inspecting officer on waste dump management	Not applicable	The O/B waste & Reject generated is simultaneously backfilled in already excavated area.

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.	Full extraction	Full extraction	
5b	Area under backfilling of mined out area	4.18 Hec.	2.02 Hec.	Production is on lower side as proposed. Accordingly area actual broken and backfilled area is less than proposal for the year.

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Back filled Simultaneously	Back filled Simultaneously
5d	Total area fully reclaimed and rehabilitated	83.99 Hac.	81.83 Hac.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	Area actual broken had been backfilled and area levelled symultaneously.

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 as per rule	Not submitted	
6b	Area available for rehabilitation (ha) .	2.48Hec. during 2018-19.	0.32ha	
6c	afforestation done (ha).	1.25 Ha.	1.25 Ha.	
6d	No. of saplings planted during the year	1000 nos.	Within area:- 00 Outside area:-1000 nos	
6e	Cumulative no .of plants	2750 nos	2750 nos	
6f	Any other method of rehabilitation	Backfilling and leveling of worked out areas	Backfilling and leveling of worked out areas	
6g	Cost incurred on watch and care during the year	Through mining contractor	Plant distributed to Khatedars nearby mining lease area	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	162X153X2.37Mt s.	710X4.5X2.37Mts	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	162X153X2.37Mts	710X4.5X2.37Mts
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil as it is non fertile.	Nil as it is non fertile.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Regular monitoring as per Ec & CTO conditions.	Regular monitoring as per Ec & CTO conditions.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The area is non fertile & waste generated has been backfilled & levelled.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM washed and crystalline Selenite (Saleable) separation from clayey gangue	ROM washed and crystalline Selenite (Saleable) separation from clayey gangue	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	No proposal	Single grade	
7d	Any beneficiation process at mines	No proposal	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	There is no issue regarding mineral conservation.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Not Applicable	
8b	Concurrent use or storage of topsoil	No proposal	Not Applicable	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Back filled Simultaneously	Back filled Simultaneously
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Back filled Simultaneously	Back filled Simultaneously
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Back filled Simultaneously & levelled	Back filled Simultaneously & levelled
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The area is non fertile due to high salinity & does not support plantation.	The area is non fertile due to high salinity & does not support plantation.
8g	Survival rate	Nil	Nil
8h	Water sprinkling on roads to control airborne dust	Yes	Yes
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not Applicable	The area is non fertile due to high salinity & does not support plantation. as such the aesthetic beauty is non satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Not Applicable	M.R Submitted upto January 2020 A.R. Submitted upto 2018-19	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sh Rakesh Kumar Sharma, Manager (Mines), Mining Engineer- None, Geologist- Sh. D. S. Acharya.	Found O K
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The information about land use has been stated as NIL	It can not be Nil.
9d	Scrutiny of Annual return on afforestation	The information about plantation has been stated as NIL	It was reported that 1000 saplings distributed to local villagers.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	The reject generation stated as Nil	The reject generated has been backfilled simultaneously.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The opening stock Nil, Production- 861.00 T & Closing Stock - 861.00 T.	Found O K
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The cost of production stated as Nil.	It can not be Nil.
9h	Scrutiny of Annual return on fixed assets	The Value of Fixed assets stated as Nil.	It can not be Nil.
9k	Scrutiny of Annual return on mining machineries	No M/C deployed	Found O K.

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

Date :

(Sharma H.C.)

Indian Bureau of Mines