

**INDIAN BUREAU OF MINES
MINES CONTROL AND CONSERVATION OF MINERAL DIVISION**

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JSL-14/LST-2

Mine code : 38RAJ14001

- (i) Name of the Inspecting : S012) Sharma H.C.
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. Rajendra Manaria, Dy. General Manager (Mining)
Official with
Designation
- (iv) Date of Inspection : 17-SEP-15
- (v) Prev.inspection date : 13-MAR-15

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : SANU (998.40 HA)
- (b) Category : A Mechanised
- (c) Type of Working : Opencast
- (d) Postal address
- State : RAJASTHAN
- District : JAISALMER
- Village : JOGA
- Taluka : JAISALMER
- Post office : SANU
- Pin Code : 345001
- FAX No. : 02992-52135
- E-mail : ----
- Phone : 02992-51607
- (e) Police Station :
- (f) First opening date : 18-OCT-93
2. Address for : P.BOX NO.56
correspondance KHANIJ BHAWAN
JAISALMER
3. (a) Lease Number : RAJ1485
- (b) Lease area : 1000
- (c) Period of lease : 30
- (d) Date of Expiry : 31-MAR-27
4. Mineral worked : LIMESHELL Associated
LIMESTONE 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 : SUDERSHAN SETHI, IAS
 RSMM LTD. MEERA MARG
 UDAIPUR UDAIPUR RAJASTHAN
 Phone: 0294-2528681
 FAX : 0294-2523170

Agent : RS NARUKA
 P.BOX NO.56, KHANIJ BHAWAN
 JAISALMER JAISALMER
 RAJASTHAN
 Phone: 02992-270283
 FAX : 02992-251394

6. Date of approval of Mining : 25-JUL-13
 Plan/Scheme of Mining

PART - II : TECHNICAL DETAILS/COMMENTS

1. Details about Average employment :

Maximum number of persons employed on any day during the year

Employment category	No.of employment	Av. yearly working days
DIRECT		
Managerial	1	303
Ministrial	16	303
Supervisory	9	303
CONTRACT		
Workers	61	303

2. Community Development Plan (in and around the mines) : Proposed action and expenditure towards socio-economic development.

Action during the year	Expenditure in Rs. Lakhs for				Remarks
	previous year		current year		
	Proposed	Incurred	Proposed	Incurred	
General					
Infrastructure					
Sub total					
Sub total					
Total					

3. Status of compliance of MCDR, 1988, including therewith the rectification of the outstanding violation of rules.

The Violation of rule 13(1) & 23(E)(2) were observed during previous inspection of mine. Presently violation of rule 13(1) was observed & pointed out simultaneously.

4. A note on the justification in case of suspension of mining operation under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 1988, if recommended.

Suspension of mine operations are not recommended at present.

5. Scientific Mining

Items	Proposal	Actual work done	Remarks
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A. Exploration (Rule 13)

a.Type of prospecting and exploration i.e. pitting, drilling	: As per Para 3.4 of SOM approved on 25/7/2013, a total of five nos of pit/exploratory hole were proposed in block no B-15, 25.63, 69, 70 & 84 to ascertain the grade & thickness of SMS grade limestone.	No exploration carried out during this plan period.	
b.Total area covered	: Not reported in approved SOM	Not Applicable	

B. Working (Rule 13)

a.Number and size of each pit (LxWxH)	: Mining operations proposed in two pits of North Block	Mining operations are confined in pit 1 & in Pit No 2.	
b.Bench size(LxWxH)length can be defined as regular/irregular	: A Single benches of 3.83m height in pit no 1 & 3.63m in pit no 2 proposed.	Single Regular benches of 5.9m in pit no 1 & 5.20m in pit no 2 were provided.	
c.Ore to waste ratio pit wise if possible otherwise for mine	: Not applicable as there is no O/B	Not applicable	
d.Total area covered under excavation/pits	: 273.37 ha at beginning of plan period & further 218.28 ha additionally required during the plan period.	Broken area 315.31ha.	

C. Waste disposal (Rule 13)

a.Location of dumps	: There is no proposals of creating any external dumps, the LQR & HQR rejects generated being simultaneously backfilled in excavated pit.	The LQR & HQR rejects generated being simultaneously backfilled in excavated pit.	
e.Yearly generation of waste quantity.	: 444000 T HQR & 1082300 T LQR fines during 2013-14	881472 MT during 2013-14	
b.Method of dumping whether advancing/retreat	: Advancing	Advancing	

c.Total area covered : Not specified 238.17 ha area
under waste dump. backfilled

d.No.and size of each : There are three Seven dumps of
waste dump with No of HQR dumps & Four backfilling to a total
steps/lift/bench LQR dumps of 238.17 ha area.

D. Production

b.Year wise : 27.751 lakh T 1924525 T during 2013-
production of last during 2013-14. 14.
five year.

D. Reserve

a.Reserve position as : 14.443 Million T There is no further
per latest MP/MS and proved 111 enhancement.
at the time of reserves of SMS
inspection. grade.

RESERVE POSITION AS ON 01/04/2015

LIMESTONE		
Category	Quantity in Tonnes	Grade
Proved	13000000	SMS Grade
Probable		
Possible		
Total	13000000	

PRODUCTION FOR THE PREVIOUS YEAR 2014 - 2015

Mineral	Production	Unit
LIMESTONE	1924525	TON

6. Conservation of Mineral - both quantitative and qualitative**Beneficiation (Rule 20 and 26)**

- Efforts for improving low grade and sub grade mineral. : The entire ROM is dispatched to crushing & screening unit, where salable grade, LQR & HQR is recovered separately.
- Efforts for improving percentage of recovery of ore. : Lessee is doing his best to recover the maximum mineral from ROM.

Mineral Rule 15

- Percentage of recovery of ore pitwise w.r.t. ROM and total material : The recovery is around 45%, rest being LQR & HQR sub grade mineral suitable for cement manufacturing.
- Number of benches in ore and waste. : There is single ore bench.

Sub/grd mineral/fines (Rule16)

- Qty of yearly generation and total qty available during inspection with grade : 156745.31 T of Subgrade generated during 2013-14.
- Number and size of each stack : A total of Seven Stacks over 238.17 ha
- Location of stacking. : The subgrade mineral generated had been backfilled in excavated pit.
- Separate stacking from waste : The subgrade mineral generated had been backfilled in excavated pit.
- Total area covered for stacking : Total of 238.17 ha of both LQR & HQR

Exploration data as on 31/03/ 2015

No. of Boreholes	No. of Pits	No. of Trenches
0	1	0

OVERBURDEN HANDLED DURING PREVIOUS YEAR 2014 - 2015**Utilisation of Sub Grade Mineral and Mineral Rejects**

Generated	Utilised	Stacked	(In Ton.)

7. Environment Management - both quantitative and qualitativ

A. Land environment

- a. Landscape. : Mining is restricted to well planned layout. Original landscape has been disturbed by the mining activities such as excavation and backfilling.
- b. Aesthetic environment : Aesthetic environment of the area has been disturbed by various mining activities. Which however do not have major impact on the overall aesthetic environment of the area.
- c. Soil and land use pattern : The soil cover is non fertile as mixed with gravels. About 315.15 hectare land has been disturbed by excavation & backfilling.
- d. Agriculture : There is no agriculture activity in the lease hold.
- e. Forest(flora and fauna) : There is no forest land in the leasehold area. Thorny plants like desi and vilayati babool, khejdi and bushes are found within the lease area. Other trees like Neem, fruit trees etc had been planted by lessee.
- f. Vegetation : Vegetation is sparse and thorny in nature.
- h. Public building, places and monuments (protected, historical), place of worship and places of tourist : There are no public buildings, places and monuments protected historical place of worship and places of tourist interest within or nearby the lease.

B Water environment.

- a. Surface water : There are no surface water bodies nearby the lease. The natural drainage system of the area within the lease has not been disturbed by the mine workings or the dumps.
- b. Ground water : Mining activities are above ground water table so no disturbance to the water table has been envisaged.
- c. Quality of water : There is no change in the quality of water as workings are above water table.

C. Air environment

- a. Noise : The noise quality is regularly monitored. Besides the plantation done help in suppressing noise level.
- b. Air : The airborne dust generation is there during plying of vehicles which is checked by regular water spraying on haul roads.
- c. Climatic condition : The climate of the area is hot and dry and no change in the climatic conditions observed due to mining.

D. Socio economic environment

- a. Social and demographic profile. : The people of the area mostly depend on agriculture for their livelihood and do cattle rearing as a profession. Some of the villagers are also employed in the mines as daily workers both directly by the lessee and indirectly by the contractors.
- b. Recommending health and safety. : No cause of threat to health & safety was noticed during the inspection.
- c. Human settlement : There are no human settlements within area of active mining of the lease area.
- d. Recreational facility. : The mine owner makes liberal contribution in the

local village festivals and melas. There is no recreational facility.

7.1 Comments on the steps taken by the lessee towards maintaining environment and monitoring of environmental parameters to ensure the qualitative improvement in the environment and ecology.

<u>Water Management</u>					
Season	Station type	Station name	Parameter	Value	
				Actual	Excess

<u>Air data for excess parameters</u>					
Season	Station name	Type of area	Parameter	Value	
				Actual	Excess

<u>PLANTATION DURING THE PREVIOUS YEAR</u>		<u>2014 - 2015</u>	Area in Hect.
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<u>TOP SOIL MANAGEMENT</u>	
Quantity as on 31/03/2015	

8. Scrutiny of annual returns on cost of production, reserve, production, pit mouth value, stock, land use pattern and fixed assets.

The annual return of the mine had been submitted online and same was found O.K.

PART - III : PERFORMANCE OF MINE OWNER
(In case of lease expiring within 2 years - as per guidelines)

a. Compliance of terms and conditions of lease deed.

Not applicable

PART - IV : PROPOSALS FOR FURTHER ACTION FOR :

Indian Bureau of Mines (any issue related to CGPB, SGPB, Assistance, Consultancy, Annual Programme and studies, etc.)

None at Present

State Government (Illegal mining, mining dispute, infrastructure, Mineral based industry, Mineral policy, etc.)

None at Present

The Central Government (Infrastructure, Development, Mineral policy and Legislation, Mineral based industry, etc.)

None at Present

Date :

(Sharma H.C.)

Indian Bureau of Mines