

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

MCDR INSPECTION REPORT

Ajmer regional office

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

Mine code : 38RAJ14001

- (i) Name of the Inspecting : **26**) **Nishant kumar rao**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh Ashish Parihar(Mines Manager)
Official with
Designation
- (iv) Date of Inspection : 23-DEC-24
- (v) Prev.inspection date : 10-OCT-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SANU (998.40 HA)**
- (b) **Registration NO.** : **IBM/5158/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : RAJASTHAN
District : JAISALMER
Village : JOGA
Taluka : JAISALMER
Post office : SANU
Pin Code : 345001
FAX No. : 02992-52135
E-mail : menaria
Phone : 02992-51607
- (f) Police Station : Sanu
- (g) First opening date : 18-OCT-93
- (h) Weekly day of rest : MON
2. Address for : P.BOX NO.56
correspondance : KHANIJ BHAWAN
JAISALMER
3. (a) Lease Number : RAJ1485
- (b) Lease area : 998.4
- (c) Period of lease : 50
- (d) Date of Expiry : 30-MAR-67
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 : B. P. Yetru, IAS
 M/S RSMM Ltd. 4- Meera
 Marg, Udaipur UDAIPUR
 RAJASTHAN
 Phone:
 FAX :

Agent : Rajendra Manaria
 Khaniz Bhawan, Near B P
 Tank Jaiselmer JAISALMER
 RAJASTHAN
 Phone: 02992251607
 FAX :

Geologist
 Name : K K Mathur, Full Time
 Qualification : M Sc (Sedimentology & Petroleum Geology
 Appointment/ : 18-FEB-19
 Termination date

Manager
 Name : Rajendra Menaria
 Qualification : BE(Mining)
 Appointment/ : 10-APR-18
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	27-JAN-93
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	17-JUL-98
		Mining Scheme rule 12 MCDR1988	25-JUL-13
		MP review under 17(1) MCR 2016	01-DEC-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	na	na	-
1b	Exploration over lease area for geological axis 1 or 2	na	NA Entire area explored under G-1 level at 200X200 Grid.	
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	na	NA	
1e	Balance reserve as on 01/04/20		18.139 million MT (SMS grade)	
1f	General remarks of inspecting officers on geology, exploration etc			nil

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area		3022552-3020976N,656583E-658939	nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Only single bench mining. SMS grade limestone found at maximum depth of 5 mtrs from surface	Only single bench mining. SMS grade limestone found at maximum depth of 5 mtrs from surface	nil
2c	Stripping ratio or ore to OB ratio	No overburden, deposit is outcrop on surface.	No overburden, deposit is outcrop on surface.	
2d	Quantity of topsoil generation in m3	No top soil, deposit is outcrop on surface.	No top soil, deposit is outcrop on surface.	
2e	Quantity of overburden generation in m3	No overburden, deposit is outcrop on surface.	No overburden, deposit is outcrop on surface.	nil

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	nil
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	2	-
3b	Quantity of ROM mineral production proposed	2728000 MT	2050596 MT	deviation point out to mine official
3c	Recovery of sailable/usable mineral from ROM production	Recovery of Finished product i.e. 30mm to 80mm size is 45% Chemical Composition CaO = 54.26 % SiO2 = 1.15 %	Actual Recovery of Finished product i.e. (30-80mm size is 42.33% Chemical Composition CaO = 53.75 % SiO2 = 1.39 %	deviation point out to mine official
3d	Quantity of mineral reject generation	1032000 MT	783675.27 MT	-
3e	Grade of mineral rejects generation and threshold value declared.	CaO = 41.67 % SiO2 = 14.35 %	CaO = 44.25 % SiO2 = 12.49 % Threshold value of SMS Gr Limestone is CaO>34% MgO<5%	
3f	Quantity of sub grade mineral generation.	4,23,000 MT	5,93,280.69 MT	
3g	Grade of sub grade mineral generation	CaO = 52.39 % SiO2 = 1.60 %	CaO = 51.87 % SiO2 = 1.62 % Subgrade mineral is generated as by-product and having size between 10 mm to 30mm size gitty.	
3h	Manual / Mechanised method adopted for segregating from ROM	mechanical	mechanical	

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	Drilling is done with help of 4" dia drill machine and Blasting is done with ANFO by using controlled blasting techniques DTH & TLD.	Drilling is done with help of 4" dia drill machine and Blasting is done with ANFO by using controlled blasting techniques DTH & TLD.	
3k	Provision of mining machineries in mineral benches	HEMM	HEMM	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	YES It shall vary from 3.5 to 5.0 meter.	
3m	Total area covered under excavation/pits	37.90 ha	18.17Hect	
3n	Ore to OB ratio for the pit/mine during the year.	na	na	
3o	Total area put in use under different heads at the end of year	Area for Mining=37.90 Backfilling=26.90 Plantation=20.00 Mineral Storage=2.10 Utility Services =37.63	Area for Mining=18.17 Backfilling=7.51 Plantation=6 Mineral Storage=0.7 Utility Services =25.19	
3p	Production of ROM mineral during the last five year period as applicable	2714000 2718000 2719000 2728000 2728000	2019-20:2504113t 20-21:2099686t 21-22:2681733t 23-24:2335669t 24-25:2050596t	deviation point out to mine official

3q	General remarks of inspecting officers on method of mining etc.	Deviation pointed out for the area put at end of year as well for less production
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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)	na	na	
4b	Location of topsoil, OB and mineral reject dumps	na	na	
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.	Yes, Full extraction of SMS Grade Mineral from mined out area before starting backfilling.	Yes, Full extraction of SMS Grade Mineral from mined out area before starting backfilling.	
5b	Area under backfilling of mined out area	26.90 ha	7.51 ha Mined out area is concurrently backfilled with low grade reject in the pit.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	na	na	
5d	Total area fully reclaimed and rehabilitated	Reclaimed area as on 01.04.2024 is 371.16 Ha. Rehabilitated with Plantation over backfilled=167.10Ha	As on 31.03.24 371.16Ha area is reclaimed&167.10 Haarea rehabilitated with plantation on backfilled area& on remaining area seeds were spreaded.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			-

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 submit	submitted on time	
6b	Area available for rehabilitation (ha) .	-	-	
6c	afforestation done (ha).	na	na	
6d	No. of saplings planted during the year	14000	14000	

6e	Cumulative no .of plants		65,054
6f	Any other method na of rehabilitation		na
6g	Cost incurred on 10.50 lacs watch and care during the year		12.30 lacs
6h	Compliance on - reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	-	-
6i	Compliance on - reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	-	-
6j	Compliance on - reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	-	
6k	Compliance on na reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	na	na
6l	Compliance on na reclamation and rehabilitation by backfilling (v)any other specific means.	na	na
6m	Compliance of - rehabilitation of waste land within lease (i)afforestation	-	-
6n	Compliance of - rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	-	

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	-		
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes provided	available	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			for PMCP kmz not upload with all attributes ,point out to mine official

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Production Proposal:- 1217000 (30-80mm) 423000 (10-30 mm) Likely to Despatch:- 1200000 (30-80mm) 500000 (0-30 mm)	Actual Production:- 989785.45 (30-80 mm) 593280.69 (10-30 mm) Actual Despatch:- 895090.83(30-80 mm) 581892.94(0-30 mm)	deviation point out to mine official
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	mechanical	
7c	Different grade of mineral sorted out at mines.	Yes, different grade separated by screening at plant was as under:- 40-80mm size gitty 30-60mm size gitty 30-50mm size gitty 10-30mm sizegitty	Yes, different grade separated by screening at plant was as under:- 40-80mm size gitty 30-60mm size gitty 30-50mm size gitty 10-30mm sizegitty	

7d	Any beneficiation process at mines .	na	na	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			nil

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)	Low grade rejects generated during the crushing & screening process and backfilled in mined out pits	Low grade rejects generated during the crushing & screening process and backfilled in mined out pits	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Mineral rejects & fine is dumped in mined out area & for backfilling	Mineral rejects & fine is dumped in mined out area & for backfilling	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Area used for Plantation (fire-wood plant), for natural water reservoirs & backfilled by clayey soil of low grade fines.	Area used for Plantation (fire-wood plant), for natural water reservoirs & backfilled by clayey soil of low grade fines.	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	14000 nos	14000 nos	
8g	Survival rate	70%	70%	
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			nil

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	yes	yes submit on time	nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	yes	given ,geologist not appointed at site	deviation pointed out to mine official
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	yes	yes	
9d	Scrutiny of Annual return on afforestation	yes	yes	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes, provided. Low grade rejects fines generated with grade: CaO = 44.25 % SiO2 = 12.49 % Quantity = 5,93,280.69 MT	Yes, provided. Low grade rejects fines generated with grade: CaO = 44.25 % SiO2 = 12.49 % Quantity = 5,93,280.69 MT	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes, provided. Total production of ROM is 20,50,596 MT	yes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	yes	yes	
9h	Scrutiny of Annual return on fixed assets	yes	yes	
9k	Scrutiny of Annual return on mining machineries	yes	yes provided	-

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