INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JSL-13/LST-1 Mine code : 38RAJ14002

(i) Name of the Inspecting : SQ12) Sharma H.C.

Officer and ID No.

(ii) Designation : Sr. Asst. Contrl. Mines

(iii) Accompaning mine : Sh. Rajendra Menaria, DGM (Mining)

Official with Designation

(iv) Date of Inspection : 26/10/2017
(v) Prev.inspection date : 11/02/2016

PART-I : GENERAL INFORMATION

. (a) Mine Name : SANU (1000HECT.)

(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. : 02992-251394

E-mail : sanumines@yahoo.co.in

Phone : 02992-270283

(f) Police Station

(g) First opening date : 19/03/1987

(h) Weekly day of rest : SUN

2. Address for : P.BOX NO.56,

correspondance KHANIJ BHAWAN

JAISALMER

3. (a) Lease Number : RAJ1485 (b) Lease area : 999.93

(c) Period of lease : 50

(d) Date of Expiry : 30/03/2067

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 :

6. Date of approval of Mining Plan/Scheme of Mining

Existir	ng rule	11 MC	CDR:	1988	14/06/1991
Mining	Scheme	rule	12	MCDR1988	20/08/1997
Mining	Scheme	rule	12	MCDR1988	04/02/2002
Mining	Scheme	rule	12	MCDR1988	17/06/2003
Mining	Scheme	rule	12	MCDR1988	04/09/2006
Mining	Scheme	rule	12	MCDR1988	27/05/2008
Mining	Scheme	rule	12	MCDR1988	13/09/2012
MP revi	lew unde	er 17	(1)	MCR 2016	13/12/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	No proposal	Not applicable	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	Not applicable	
1e	Balance reserve as on 01/04/20	22.71 MT - as on 1/4/2017	22.525MT	Additional reserves established without doing exploration, which is proposed as VL
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	Additional reserves established without doing exploration, which is proposed as VL.	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	4200-5100N, 7200-7520E North Block, 3240-4000N, 6600-6760E South Block	4200-5100N, 7200-7520E North Block, 3240-4000N, 6600-6760E South Block	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)		Not applicable	
2c	Stripping ratio or ore to OB ratio	Not applicable	Not applicable	
2d	Quantity of topsoil generation in m3	Not applicable	Not applicable	

2e	Quantity of overburden generation in m3	Not ap	plicable	Not applicable
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not ap		There is no top soil / OB waste, mineral is outcropping. The development of mine was satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two	Two	
3b	Quantity of ROM mineral production proposed	2700000 T	1460530 T	
3с	Recovery of sailable/usable mineral from ROM production	45 - 46%	45.80%	
3d	Quantity of mineral reject generation	1048000 T	586656T	
3e	Grade of mineral rejects generation and threshold value declared.	High grade reject - 10- 30mm (Sinter/ Chemical grade Low grade -(- 10mm) High silica low grade limestone- cement grade.	Being done Threshold value SMS Grade limestone CaO- 52%, SiO2-1.8%: Threshold value Cement grade limestone CaO-30%, SiO2-14.8%:	
3f	Quantity of sub grade mineral generation.	3400000 T	204818T	
3g	Grade of sub grade mineral generation	High grade reject - 10- 30mm (Sinter/ Chemical grade Low grade -(- 10mm) High silica low grade limestone- cement grade.	Being done	

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Being done
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	Yes, 4inch dia holes drilled with DTH drills & blasted with Slurry and ANFO explosives in conjunction with cord relay electric detonators.	Being done
3k	Provision of mining machineries in mineral benches	HEMM Shoval dumper combination.	Being done
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	mineral bench varies from	Being done
3m	Total area covered under excavation/pits	502 ha	498 ha at the end of 2016-17.
3n	Ore to OB ratio for the pit/mine during the year.	Not applicable	Not applicable
30	different heads	Under excavation 28.8 ha & others total 502ha	Under excavation 21.41 ha & others total 498 ha
3p	Production of ROM mineral during the last five year period as applicable	13942800 T	9994188 T
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The method of mining is suitable to the type of deposit.

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 as there is no top soil/ OB Waste, Mineral is out cropping.		plicable	
4b	Location of topsoil, OB and mineral reject dumps	Mineral reject low/ high grade stored & levelled in mined out pit concurrently backfilling method.	_	done	
4c	Number of dumps within lease area and outside of lease area	Not applicable	Not ap	plicable	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	7800 to 8270E 4400- 4600N, 6900 to 8000E 3400 to 3500N		000E 4000- 4550N 0 7250E 2820 to	
4e	Number of active and alive dumps.	Not applicable	Not ap	plicable	
4f	Number of dead dumps.	Not applicable	Not ap	plicable	
4 g	Number of dumps established.	Not applicable	Not ap	plicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not applicable	Not ap	plicable	
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Not ap	plicable	
4j	Number of settling ponds	Not applicable	Not ap	plicable	
4k	Specific comments of inspecting officer on waste dump management	Not applicable	method propos low gr	rent backfilling adopted as ed to store the ade & high grade separately for use.	

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 of mineral before starting backfilling.	Being done	
5b	Area under backfilling of mined out area	21.80 ha	6.02ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable	Not applicable as there is no top soil.	
5d	Total area fully reclaimed and rehabilitated	223 ha mined out reclaimed & 135 ha Plantation inmined out backfilled & levelled area.	219 ha mined out reclaimed & 135 ha with plantation in mined out backfilled & levelled area.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	The lessee's conduct towards backfilling & reclaimation was satisfactory.	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Submit in time.	Not submitted so far.	
6b	Area available for rehabilitation (ha).	22 ha	16ha	
6c	afforestation done (ha).	20ha	6.5 ha	
6d	No. of saplings planted during the year	5000 nos	5000 nos	
6e	Cumulative no .of plants	Not reported	68523 nos	
6f	Any other method of rehabilitation	No proposal	Not applicable	

6g	Cost incurred on watch and care during the year		6.35 Lacs Ruppees
6h		28.8 ha	21.41 ha
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	22 ha	16 ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	20 ha	6.5 ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable
61	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	Not applicable	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not applicable	Not applicable

60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not applicable	Not applicable
бр	Compliance of environmental monitoring (core zone and buffer zone)	As per approved review of mining Plan	As per EC & Consent Condition from MOEF & SPCB.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The compliance of PMCP was satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	669055 (30-80mm), 204818 (10-30mm)	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical by screening	
7c	Different grade of mineral sorted out at mines.	During process of SMS grade limestone by crushing & screening plant under size high grade & low grade rejects separted & stored in mined out pit separately & levelled.	Being done	
7d	Any beneficiation process at mines .	Dry processing by sizing & screening plant	Being done	

7e General remarks Not applicable The party's conduct of inspecting towards mineral officer on conservation was Mineral satisfactory. conservation and beneficiation issues

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not applicable	Not applicable	
8b	Concurrent use or storage of topsoil	Not applicable	Not applicable as the is no top soil.	nere
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes There are separate dumps for rejects & Fines.	Being done	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Mineral reject & fines are dumped in mined out area by backfilling & levelling.	Being done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Area used for plantaion (Fire Wood plant), for natural water reservoir & back filled by interburden clayey soil of low grade fines.	Being done	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	5000 No per annum Planted.	Being done	
8g	Survival rate	70%	73.9%	

8h	Water sprinkling on roads to control airborne dust	Yes	Being done by water tanker with sprinkler.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The aesthatic beauty in & around the mine was satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Not applicable	M/R Submitted up to Dec 2017, A/R submitted for 2016-17.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes details given	Found in order	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	2	Found in order	
9d	Scrutiny of Annual return on afforestation	Yes details given	Found in order	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes details given	Found in order	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes details given	Found in order	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes details given	Found in order	
9h	Scrutiny of Annual return on fixed assets	Yes details given	Found in order	

9k Scrutiny of Yes details Found in order Annual return on given

mining machineries

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Details of violations observed during current inspection and compliance position of violation pointed out				
Viola	tion observed	Show couse position		
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on	

Date : (Sharma H.C.)

Indian Bureau of Mines