

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/AJM-89/LST-1

Mine code : 38RAJ01001

- (i) Name of the Inspecting : **S012**) **Sharma H.C.**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. T. K. Dhelawat, Manager (Mines)
Official with
Designation
- (iv) Date of Inspection : 09-SEP-16
- (v) Prev.inspection date : 13-FEB-16

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SHEOPURA KESARPURA**
- (b) **Registration NO.** : **IBM/960/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **RAJASTHAN**
- District : **AJMER**
- Village : **LULWA/JHAK**
- Taluka : **MASUDA**
- Post office : **ANDHERI DEORI BEAWAR**
- Pin Code : **305901**
- FAX No. : **01462-228117**
- E-mail : **shreebwr@shreecementltd.co**
- Phone : **01462- 228118, 228119**
- (f) **Police Station** : **Beawer Sadar**
- (g) **First opening date** : **28-AUG-78**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **M/S SHREE CEMENT Ltd., P.O Box No-33**
correspondance : **BANGUR NAGAR, BEAWAR- 305901**
: **Rajasthan**
3. (a) **Lease Number** : **RAJ0001**
- (b) **Lease area** : **856.33**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **27-AUG-28**
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : SHREE CEMENT LTD.
 SHREE CEMENT LTD. BANG- -UR
 NAGAR, P.O.BOX NO.-33
 BEAWAR-305,901,DIS.-AJMER
 AJMER RAJASTHAN
 Phone:91-01462-228101-105
 FAX :91-01462-228117-119

Owner : Ramakant Sharma
 M/S Shree Cement Ltd. P.O.
 Box No 33, Bangur Nagar,
 BEAWER, Distt- Ajmer (RAJ)
 AJMER RAJASTHAN
 Phone: 01462228101-06
 FAX : 01462228117-19

Agent : S.C. Suthar
 Shree Cement ltd Bangur
 Nagar, Post Box-33 Beawar-
 305901 AJMER RAJASTHAN
 Phone: 01462-228101
 FAX : 01462-228117

Mining Engineer

Name : Gaurav Singh Chauhan,Full Time
 Qualification : B. E. (Mining)
 Appointment/ : 28-MAY-12
 Termination date

Geologist

Name : P. S. Rathore,Full Time
 Qualification : M. Sc. (Geology)
 Appointment/ : 06-MAR-13
 Termination date

Manager

Name : T. K. Dhelawat
 Qualification : B. E. (Mining)
 Appointment/ : 22-APR-09
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	06-MAR-96
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	15-NOV-99
		Mining Scheme rule 12 MCDR1988	26-JUN-03
		Modif.approved Mining Scheme	04-JUN-04
		Mining Scheme rule 12 MCDR1988	09-APR-08
		Mining Scheme rule 12 MCDR1988	29-JUL-13

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was no exploration proposals for the year 2015-16.	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	Not applicable as there was no approved proposals.	Not applicable	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not applicable	Not applicable	
1e	Balance reserve as on 01/04/20	33.73 million tonnes - 60 lacks tonnes= 277,300,000 tonnes proved reserves.	29.13 Million tonnes.	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	Block VB is yet to be explored.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Block I, III, VA	Block I, III, VA	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no top soil & no O/B.	Not applicable	
2c	Stripping ratio or ore to OB ratio	1:0.55	1:0.44	
2d	Quantity of topsoil generation in m3	Not applicable	Not applicable	

2e	Quantity of overburden generation in m3	10.90 lac MT	6.14 Lac MT
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	A stripping ratio of 1:0.63 was proposed but actual achieved was 1:0.44, which represents that proportional development was not proper.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Block I, III & VA	Being done	
3b	Quantity of ROM mineral production proposed	20 Lac MT	14.08 Lac MT	
3c	Recovery of sailable/usable mineral from ROM production	64.7%	N A	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Single impact rotatory crusher APPM 1822 of 800 TPH capacity installed.	Being done	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed for the current year.	Not applicable	

3j	Provision of drilling and blasting in mineral benches	DTH drill 6.5", Depth 9Mtrs. Blasting by non electric detonators.	Being done
3k	Provision of mining machineries in mineral benches	3 Excavators of 3.75 m3 capacity.	Being done
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	yes
3m	Total area covered under excavation/pits	76.20 Ha	75.90 ha
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.63 for both eastern & Western pits.	1: 0.44
3o	Total area put in use under different heads at the end of year	Pit- 76.20 ha, Waste dump- 41.0 ha, Roads & building - 4.80 ha	Pit- 75.90 ha, Waste dump- 39.60 ha, Roads & building - 4.80 ha, Plantation 56.70 ha (37.6 ha on Barren Land, 17.65 ha on waste dump, 1 ha on backfilled area & 0.45 ha on exhausted benches) till 2015-16.
3p	Production of ROM mineral during the last five year period as applicable	I yr (2013-14)- 20 Lac MT, II yr (2014-15)- 20 Lac MT, III yr (2015-16)- 20 Lac MT, IV yr (2016-17)- 20 Lac MT, V yr (2017-18)- 20 Lac MT.	I yr (2013-14)- 16.02 Lac MT, II yr (2014-15)- 16.35 Lac MT, III yr (2015-16)- 14.08 Lac MT, IV yr (2016-17)- 4.73 Lac MT (Up to Aug 2016).
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The method of mining is most suitable for mining operations with respect to the type of deposit.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is no top soil, O/B & rejects generations in the mine.	Not applicable	
4b	Location of topsoil, OB and mineral reject dumps	There is no such proposal in the approved SOM.	Not applicable	
4c	Number of dumps within lease area and outside of lease area	Four within lease area.	Being done	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side UPL.	Being done	
4e	Number of active and alive dumps.	Two active dumps.	Being done	
4f	Number of dead dumps.	Two dead dumps	Being done	
4g	Number of dumps established.	Two dumps stablised.	Being done	
4h	Whether Retaining wall or garland drain all along dumps are there.	A retaining wall of 250m, 630m, 700m & 310m proposed to be constructed during First four years of the plan period.	Not provided.	The deviation has been pointed out as VL.
4i	Length of Retaining wall or garland drain all along dumps	A retaining wall of 250m, 630m, 700m & 310m proposed to be constructed during First four years of the plan period with garland drain.	Not provided.	
4j	Number of settling ponds	No proposals.	Not applicable	
4k	Specific comments of inspecting officer on waste dump management	Not applicable	A retaining wall of 250m, 630m, 700m & 310m proposed to be constructed during First four years of the plan period with garland drain, but same had not been provided.	

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 of mineral.	No limestone at depth in backfilled area.	
5b	Area under backfilling of mined out area	An area of 300m X 150m i.e. 4.5 ha proposed to be backfilled.	About 1 ha had been backfilled towards eastern pit boundaries.	The deviation had been pointed out as VL.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There is no top soil available in the mine.	Not applicable	
5d	Total area fully reclaimed and rehabilitated	An area of 2.5 ha proposed to be rehabilitated by plantation, out of 4.5 ha area proposed to be backfilled & levelled.	An area of 1 ha had been reclaimed by plantation on backfilled area.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	An area of 300m X 150m i.e. 4.5 ha was proposed to be backfilled & levelled, but about 1 ha had been backfilled towards eastern pit boundaries. The deviation had been pointed out as VL.	

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	Not submitted.	The deviation had been pointed out as VL.
6b	Area available for rehabilitation (ha) .	None	Nil	
6c	afforestation done (ha).	None	0.45 ha	

6d	No. of saplings planted during the year	None	Nil
6e	Cumulative no .of plants	None	900 nos
6f	Any other method of rehabilitation	None	Not applicable
6g	Cost incurred on watch and care during the year	None	The cost not calculated separately, it is common with total plantation cost of Rs. 56.700 lacks during 2015-16.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	1.50 ha	Being done
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.5 ha	1.5 ha height being increased.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	4.5 ha	1.5 ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals	All other workings are in lower benches presently.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	None	37.60 ha

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None	37.60 ha
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None	Plantation
6p	Compliance of environmental monitoring (core zone and buffer zone)	The air, water, noise, Vibration monitoring carried out as per SPCB conditions.	Being done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not Applicable	The Rule 23 E (2) had been found violated & pointed out for compliance.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	20 Lac MT	14.08 Lac MT	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Being done	
7c	Different grade of mineral sorted out at mines.	Mineral Sorted as Plant Grade & Waste	Mineral Sorted as Plant Grade & Waste	

7d	Any beneficiation process at mines .	L & T make single rotary Impact Crusher APPM 1822 of 800 TPH installed with cross country belt conveyor of matching capacity.	Being done
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	There seems no conservational issue in the mine, the low grade waste as bed material of boilers is utilised in FGD plant for manufacturing Synthetic Gypsum as well in Shree Mega Power Plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is no top soil cover.	Not applicable	
8b	Concurrent use or storage of topsoil	None	Not applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only single type of Waste material in the mine i.e. interburden waste.	The interburden waste Patially utilised & rest dumped separately.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling in exhausted area as well dumping.	Being done with partial utilisation through STP from state Govt. for gitti making. Waste material also being utilised in Shree Mega Power Plant.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None	17.65 ha area till 2015-16 of waste dump rehabilitated by plantation on it. 0.45 ha of working benches & 1 ha of backfilled area till 2015-16 had also been covered under plantation.	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NA	Total of 56.70 ha area including 37.6 ha barren land, 17.65 ha dumping ground, 0.45 ha on exhausted benches & 1 ha backfilled area covered under plantation till 2015-16.
8g	Survival rate	No proposal	76 %
8h	Water sprinkling on roads to control airborne dust	Three nos of water sprinklers of 15 KL capacity proposed to be used for water sprinkling to control airborne dust.	Being done
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The aesthetic beauty in & around the mine is satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		M/R Submitted up to Aug 2016 A/R Submitted upto 2015-16	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes details given	Found O K	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes details given	Found O K	
9d	Scrutiny of Annual return on afforestation	Yes details given	Found O K	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes details given	Found O K	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes details given	Found O K
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes details given	Found O K
9h	Scrutiny of Annual return on fixed assets	Yes details given	Found O K
9k	Scrutiny of Annual return on mining machineries	Yes details given	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
Rule 13(1)	30-SEP-16				
Rule 23E(2)	30-SEP-16				

Date :

(Sharma H.C.)

Indian Bureau of Mines