

**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, GM (Mines)  
Official with  
Designation
- (iv) Date of Inspection : 05/09/2017
- (v) Prev.inspection date : 09/09/2016

**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** : **28/08/1978**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **M/S SHREE CEMENT Ltd., P.O Box No-33**  
**BANGUR NAGAR, BEAWAR- 305901**  
**Rajasthan**
3. (a) **Lease Number** : **RAJ0001**
- (b) **Lease area** : **856.33**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **27/08/2028**
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 : MAHENDRA KUMAR GARG  
 Shree Cement Limited Bangur  
 Nagar Beawar AJMER  
 RAJASTHAN  
 Phone: 01462-228101-6, 9414337754  
 FAX : 01462-228117-19

Mining Engineer  
 Name : Gaurav Singh Chauhan, Full Time  
 Qualification : B. E. (Mining)  
 Appointment/ : 28/05/2012  
 Termination date

Geologist  
 Name : P. S. Rathore, Full Time  
 Qualification : M. Sc. (Geology)  
 Appointment/ : 06/03/2013  
 Termination date

Manager  
 Name : T. K. Dhelawat  
 Qualification : B. E. (Mining)  
 Appointment/ : 22/04/2009  
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	06/03/1996
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	15/11/1999
		Mining Scheme rule 12 MCDR1988	26/06/2003
		Modif.approved Mining Scheme	04/06/2004
		Mining Scheme rule 12 MCDR1988	09/04/2008
		Mining Scheme rule 12 MCDR1988	29/07/2013

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was no proposal for the year 2016-17.	No exploration carried out during the year 2016-17.	
1b	Exploration over lease area for geological axis 1 or 2	There was no approved proposal for the year 2016-17.	Not applicable	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	There was no approved proposal for the year 2016-17.	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	There was no approved proposal for the year 2016-17.	Not applicable	
1e	Balance reserve as on 01/04/20	As per approved mining plan 33.73 Millian Tonnes proved reserves as on 1/4/2013.	28 million tonnes as on 1/4/2017.	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	Exploration is needed for block V B.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Block I, III & V A	Block I, III & V A	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no top soil & O/B .	There is no top soil & O/B .	
2c	Stripping ratio or ore to OB ratio	1 : 0.63	I : 0.37	
2d	Quantity of topsoil generation in m3	There is no top Soil	Nil	

2e	Quantity of overburden generation in m3	12.6 Lac M T	386448 MT
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The general development of the mine was satisfactory.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Block I, III & V A	Block I, III & V A	
3b	Quantity of ROM mineral production proposed	20 lac tonnes	1026110 MT	
3c	Recovery of sailable/usable mineral from ROM production	64.7 %	N A	
3d	Quantity of mineral reject generation	There was no such proposal.	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	There was no such proposal.	Not Applicable	
3f	Quantity of sub grade mineral generation.	There was no such proposal.	NIL	
3g	Grade of sub grade mineral generation	There was no such proposal.	NOT Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Single Impact rotatory Crusher APPM1822 of 800 TPH capacity installed	Being Done	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	There was no such proposal for the year.	Not applicable	

3j	Provision of drilling and blasting in mineral benches	DTH Drill 6.5 inch dia Depth 9 mTrs. Blasting by non electric Detonators.	DTH Drill 6.5 inch dia Depth 9 mTrs. Blasting by non electric Detonators.
3k	Provision of mining machineries in mineral benches	3 Excavators & 10 Dumpers	3 Excavators & 10 Dumpers
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	81 ha	77.2 ha
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.63	1 : 0.37
3o	Total area put in use under different heads at the end of year	Pit 81.0 ha, Waste Dump- 42.7, Roads & Building 4.80 ha	Pit 77.2 ha, Waste Dump- 39.6 ha, Roads & Building 4.80 ha, Plantation- Total 57.7 ha out of which 37.9 ha on barren land, 17.85 ha on backfilled area, 1.5 ha on dumps & 0.45 nha on exhausted benches.
3p	Production of ROM mineral during the last five year period as applicable	2013-14- 20 lac MT, 2014- 15- 20 lac MT, 2015-16- 20 Lac MT, 2016- 17- 20 Lac MT	2013-14- 1601962.4 MT, 2014-15- 163502.00 MT, 2015-16-1408454.00 MT, 2016-17- 1026110.00 MT
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The method of mining is suitable to the type of deposit.

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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)	There is no top soil, O/B & Mineral reject generation.	Not applicable	

4b	Location of topsoil, OB and mineral reject dumps	Five waste dumps in block III, Block V A , & Block I. There is no top soil	Being done
4c	Number of dumps within lease area and outside of lease area	Five waste dumps within lease area.	Being done
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side Ultimate pit Limit.	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 stabilised.	Being done
4h	Whether Retaining wall or garland drain all along dumps are there.	Dumps proposed to be stabilised by retaining wall with garland drain.	Garland drain is provided all along the dumps, but work of making retaining wall was under process.
4i	Length of Retaining wall or garland drain all along dumps	Garland drain 350 M & retaining wall 310 M.	550 m of garland drain & 500 M of retaining wall was under process.
4j	Number of settling ponds	There was no such proposal in approved SOM.	Not applicable
4k	Specific comments of inspecting officer on waste dump management	Not applicable	550 m of garland drain & 500 M of retaining wall was under process of construction.

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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 in depth in backfilled area.	

5b	Area under backfilling of mined out area	An Area of 300m X 150m i.e. 4.5 ha area proposed to be backfilled.	An area of 2.7 ha had been backfilled & levelled.	The deviation had been pointed out as violation .
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There is no top soil in the mine.	Not applicable.	
5d	Total area fully reclaimed and rehabilitated	An area of 2.5 ha proposed to be backfilled, levelled & rehabilitated by plantation.	An area of 1.5 ha had been rehabilitated by plantation so far.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	An Area of 300m X 150m i.e. 4.5 ha area proposed to be backfilled, but only 2.7 ha area had been backfilled & 1.5 ha planted. The deviation had been pointed out as violation .	

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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	Yes	
6b	Area available for rehabilitation (ha) .	4.5 ha till 1/4/2017	1.5 ha	
6c	afforestation done (ha).	900 plants	Being done	
6d	No. of saplings planted during the year	500 saplings	Being done	
6e	Cumulative no .of plants	900 plants	Being done	
6f	Any other method of rehabilitation	There was no such proposal in approved SOM.	Not applicable	

6g	Cost incurred on watch and care during the year	There was no such proposal in approved SOM.	N A
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	2.00 ha	being done
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	4.5 ha	2.7 ha as on 1/4/2017.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	4.5 ha	1.5 ha planted after backfilling & levelling.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	There was no such proposal in approved SOM.	All the workings are at lower levels filled with rain water.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	There was no such proposal in approved SOM.	Not Applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	There was no such proposal in approved SOM.	37.90 ha
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	There was no such proposal in approved SOM.	37.90 ha



6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	There was no such proposal in approved SOM.	By plantation.
6p	Compliance of environmental monitoring (core zone and buffer zone)	The air water & noise monitoring by third Party as per EC & Consent conditions.	Being done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	The lessee's work for implementation of PMCP was satisfactory.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	20 lac T	1026110 MT	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Being done	
7c	Different grade of mineral sorted out at mines.	Mineral sorted as Plant grade & waste.	Being done	
7d	Any beneficiation process at mines .	L & T make Single rotatory 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 to be no issue for conservation of mineral in the mine as low grade being bad material for plant is utilised in FGD Plant for making Synthatic Gypsum as well in Shree Megha Power Plant.
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	There is no top Soil.	Not applicable	
8b	Concurrent use or storage of topsoil	There is no top Soil.	None	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only single type of Inter burden waste in the mine.	The waste being utilised throug STP from DMG for gitti making.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling in exhausted part of the pit.	Being done with partial utilisation in Shree Megha Power Plant.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	There was no such proposal in approved SOM.	17.85 ha area of waste dumping had been rehabilitated by plantation over it, 0.45 ha area of exhausted benches. 1.5 ha area planted over backfilled area.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	There was no such proposal in approved SOM.	17.85 ha area of waste dumping had been rehabilitated by plantation over it, 0.45 ha area of exhausted benches. 1.5 ha area planted over backfilled area.	

8g	Survival rate	There was no such proposal in approved SOM.	About 72.95 %.
8h	Water sprinkling on roads to control airborne dust	Three nos of water tankers of 15 KL capacity proposed to be deployed for water sprinkling.	Being Done
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The general beauty in & around the mine is good.

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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	The M/R has been submitted up to Aug 2017 & A/R Submitted upto 2016-17.	
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	Found O.K.
9h	Scrutiny of Annual return on fixed assets	Yes, Details	Found O.K.
9k	Scrutiny of Annual return on mining machineries	Yes, Details	Found O.K.

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**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