

**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 : **DJ03** ) **DILIP JAIN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sh. M.K. Garg (AVP Mines), Sh. T.K. Dhelawat (Mines M  
Official with  
Designation
- (iv) Date of Inspection : 22-AUG-19
- (v) Prev.inspection date : 06-SEP-18

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SHEOPURA KESARPURA**
- (b) **Registration NO.** : **IBM/960/2011**
- (c) Category : A Fully 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. : 01462-2228117  
E-mail : shreebwr@shreecementltd.coi  
Phone : 01462- 2228118, 2228119
- (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 : 856.8
- (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 : Sri P.N. CHHANGANI  
 P.B. No. 33, Bangur Nagar,  
 BEAWAR, Ajmer AJMER  
 RAJASTHAN  
 Phone: 01462-228101-10  
 FAX : 01462-228117

Agent : MAHENDRA KUMAR GARG  
 Shree Cement Limited Bangur  
 Nagar Beawar AJMER  
 RAJASTHAN  
 Phone: 01462-228101-6, 9414337754  
 FAX : 01462-228117-19

## Mining Engineer

Name : Shri Surendra Vyas, Full Time  
 Qualification : B.E. Mining  
 Appointment/ : 30-NOV-18  
 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 Plan/Scheme of Mining	:	Existing rule 11 MCDR1988	06-MAR-96
		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
		MP review under 17(1) MCR 2016	16-NOV-17

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal of exploration.	NIL.	NIL.
1b	Exploration over lease area for geological axis 1 or 2	During the year 2018-19, a total of 18 BH have been proposed.	A total of 46 bore holes have been drilled during the year 2018-19.	NIL.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No specific proposal of exploration agency and expenditure.	Drilling has been carried out by Khanna Associates, Delhi and expenditure of 49.92 Lac Rs has been reported.	NIL.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Around 81.0 Ha area was proposed to bring under G1 level of exploration by the end of the plan period i.e. 2022-23.	Around 37.39 Ha. area to be bring under G1/G2 level of exploration (As per approved document dated 01/10/2019.)	NIL.
1f	General remarks of inspecting officers on geology, exploration etc	During the year proposal of exploration by 15 number of drill hole has been given.	A total of 46 BH have been drilled during the year 2018-19. The limestone bands are dipping at an angle of 45 to 60 degree towards WNW. Limestone is observed in intercalation with calc gneiss and calc schist.	NIL.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development has been proposed between section line B24 to B29 for Eastern Zone & Section Line A21 to A26 for Western Zone.	The development has been carried out within the approved limit i.e. between section line B24 to B29 for Eastern Zone & Section Line A21 to A26 for Western Zone.	NIL.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil and OB generation. Benches have been proposed in mineral zone along with intercalated waste.	Top soil has not been generated during the year. Benches have been maintained as per proposal in mineral.	NIL.
2c	Stripping ratio or ore to OB ratio	1:0.17 CuM/T	1:0.10 CuM/T	Variation in stripping ratio is due to variation in occurrence of intercalated waste and mixing of waste during blasting.
2d	Quantity of topsoil generation in m3	No proposal of top soil generation during 2018-19.	Top soil has not been generated during the reporting year.	NIL.
2e	Quantity of overburden generation in m3	256500 CuM or 640000 MT.	151945 CuM or 379863 MT.	Less generation of waste is in account of variation in occurrence of intercalated waste and mixing of waste during blasting.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	As the limestone/mine ral is located near or over the surface, proposal of development has been given through opencast mining.	Development of the mine is being carried out through opencast mining method.	NIL.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two number of pits have been proposed for production of limestone.	Limestone has been produced as per approved proposal from two pits.	NIL.

3b	Quantity of ROM mineral production proposed	1.5 million tonnes.	1.49 million tonnes.	NIL.
3c	Recovery of sailable/usable mineral from ROM production	1.50 million tonnes.	1.49 million tonnes.	NIL.
3d	Quantity of mineral reject generation	No proposal of mineral reject during reporting year 2018-19.	No mineral reject has been generated during the year 2018-19.	NIL.
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable as no proposal.	Not applicable.	N IL.
3f	Quantity of sub grade mineral generation.	No proposal of Sub-grade mineral generation during reporting year 2018-19.	Sub-grade has not been generated during the year 2018-19.	NIL.
3g	Grade of sub grade mineral generation	Not applicable as no proposal.	Not applicable.	NIL.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised.	Mechanised.	NIL.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal of analysis or beneficiation study for sub-grade mineral.	Not applicable as no proposal.	NIL.
3j	Provision of drilling and blasting in mineral benches	DTH Drill 6.5" Depth 9 mtrs, Blasting by non-electric detonators.	DTH Drill 6.5" Depth 9 mtrs, Blasting by non-electric detonators.	NIL.
3k	Provision of mining machineries in mineral benches	Shovel and dumper combination.	Shovel and dumper combination.	NIL.

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of the benches have been proposed suitably to 9 mts.	Height of the benches have been observed as per proposal.	NIL.
3m	Total area covered under excavation/pits	89.20 Ha (upto end of the plan period).	82.35 Ha area including reclaimed area.	NIL.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.17 CuM/T	1:0.10 CuM/T	Variation in stripping ratio is due to variation in occurrence of intercalated waste and mixing of waste during blasting.
3o	Total area put in use under different heads at the end of year	As per approved RMP dated 16/11/2017, total area put under different heads at the end of the plan period i.e. 2022-23 is 137.80 Ha.	The area put to utilized under different heads as on 01/04/2019 is 134.00 Ha. as per approved document dated 01/10/2019.	NIL.
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 2.0 mT 2014-15: 2.0 mT 2016-17: 2.0 mT 2017-18: 2.0 mT 2018-19: 1.50 mT	2013-14: 1.63 mT 2014-15: 1.40 mT 2016-17: 1.02 mT 2017-18: 1.04mT 2018-19: 1.49 mT	mT stands for million tonnes. Less production of ROM is due to to less demand.
3q	General remarks of inspecting officers on method of mining etc.	Production of ROM has been proposed through opencast mining method.	Production of ROM is being carried out through opencast mining method.	NIL.

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Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal of top soil and Mineral Reject generation. OB/intercalated waste is proposed to dump separately.	Top soil and Mineral Reject has not been generated. Waste generated during the year has been dumped separately as per proposal.	NIL.
4b	Location of topsoil, OB and mineral reject dumps	No proposal of top soil and Mineral Reject generation. OB/waste is proposed to dump at existing waste dump number 1 and 3 between section lines B27.5 to B28.5 and B22 to B25.5.	Top soil and Mineral Reject has not been generated during the reporting year. Waste generated during the year has been dumped at designated place over waste dump number 3. No dumping of waste over waste dump number 1.	NIL
4c	Number of dumps within lease area and outside of lease area	Inside Lease area- Four Outside Lease area: NIL	Inside Lease area- Four Outside Lease area: NIL	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	As per approved document, proposed dumps are outside of the lease area.	Dumping of waste has been observed as per approved proposal.	NIL.
4e	Number of active and alive dumps.	Two.	Two.	NIL.
4f	Number of dead dumps.	Two.	Two.	NIL.
4g	Number of dumps established.	No proposal.	Not applicable.	NIL.
4h	Whether Retaining wall or garland drain all along dumps are there.	No specific proposal of garland drain and retaining wall during the year 2018-19. Proposal of garland drain and retaining wall has been given for plan period i.e. 2018-19 to 2022-23.	Retaining wall and garland drain has not been observed at places.	Violation of MCDR, 2017 has been issued vide letter dated 06.09.2019.

4i	Length of Retaining wall or garland drain all along dumps	Retaining wall: 180 mts. Garland Drain: 600 mts.	No retaining wall nad garland drain has been constructed.	Violation of MCDR, 2017 has been issued vide letter dated 06.09.2019.
4j	Number of settling ponds	No proposal of settling pond.	No construction of settling pond during year 2018-19.	NIL.
4k	Specific comments of inspecting officer on waste dump management	Dumping of the waste has been proposed over existing two dumps. Retaining wall and garland drain has been proposed along toe of waste dumps.	Dumping of the waste is being carried out over existing dump number-1 as per proposal. Retaining wall and garland drain has not been observed along the dump.	Violation of MCDR, 2017 has been issued vide letter dated 06.09.2019.

#### 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.	No proposal of backfilling during the year 2018-19. However, an area of 3.70 has been proposed for backfilling for the year 2019-20.	An area of around 3.30 Ha has been backfilled during the year 2018-19, which was proposed for the period 2019-20 after exhaustion of mineral in the interest of protection of environment.	Cumulatively an area of around 2.7 Ha of backfilling has been afforested.
5b	Area under backfilling of mined out area	No proposal for reporting year.	Cumulatively around 3.30 Ha. area has been backfilled.	NIL.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of top soil generation during 2018-19.	No top soil has been generated during the year 2018-19.	NIL.
5d	Total area fully reclaimed and rehabilitated	No proposal of fully reclamation and rehabilitation of mine out area during trhe year.	Cumulatively around 3.30 Ha. area has been backfilled by the end of 2018-19.	Cumulatively an area of around 2.7 Ha of backfilling has been afforested.



5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal of backfilling during the reporting year 2018-19.	Cumulatively around 3.30 Ha. area has been backfilled by the end of 2018-19 in the interest of protection of environment.	Cumulatively an area of around 2.7 Ha of backfilling has been afforested.
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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).	As per rule 26 of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year.	PMCP report for the year 2018-19 has been submitted.	NIL.
6b	Area available for rehabilitation (ha) .	An area 2.4 ha has been proposed to rehabilitate during 2018-19.	An area 0.60 ha has been rehabilitated during 2018-19.	Violation of rule 11(1) of MCDR, 2017 has been issued vide letter dated 06/09/2019.
6c	afforestation done (ha).	Proposed over 2.4 Ha.	Plantation caried out over 0.6 Ha.	Violation of rule 11(1) of MCDR, 2017 has been issued vide letter dated 06/09/2019.
6d	No. of saplings planted during the year	No specific proposal about number of plants. An area of 2.40 Ha has been proposed for plantation.	Around 1343 number of plants has been planted over an area of 0.6 Ha.	Violation of rule 11(1) of MCDR, 2017 has been issued vide letter dated 06/09/2019.
6e	Cumulative no .of plants	No specific proposal.	Not applicable as no proposal.	NIL.
6f	Any other method of rehabilitation	Other than plantation, no specific proposal of any other method of rehabilitation .	Plantation work has been carried out.	NIL.
6g	Cost incurred on watch and care during the year	No specific proposal.	291000/-	As per PMCP report.

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal of backfilling during the year 2018-19.	Cumulatively around 3.30 Ha. area has been backfilled by the end of 2018-19 in the interest of protection of environment.	Cumulatively an area of around 2.7 Ha of backfilling has been afforested.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal for the year 2018-19.	285571.40 Mt waste has been backfilled.	NIL.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal.	Around 0.20 Ha backfilled area has been afforested.	Cumulatively an area of around 2.7 Ha of backfilling has been afforested.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal making reservoir.	Not applicable.	NIL.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal.	Not applicable.	NIL.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	An area of 2.4 ha has been proposed to afforested.	An area of 0.60 ha has been afforested during the year 2018-19.	Violation of rule 11(1) of MCDR, 2017 has been issued vide letter dated 06/09/2019.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	An area of 2.4 ha has been proposed to afforested.	An area of 0.60 ha has been afforested during the year 2018-19.	Violation of rule 11(1) of MCDR, 2017 has been issued vide letter dated 06/09/2019.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation.	Plantation.	NIL.

6p	Compliance of environmental monitoring (core zone and buffer zone)	Provision of environment monitoring stations has been given in the Core and Buffer zone.	Environment monitoring parameters are found to be within permissible limit.	NIL.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	An area of 2.40 Ha has been proposed for plantation.	Around 1343 number of plants has been planted over an area of 0.6 Ha.	Violation of MCDR has been issued.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No specific grade wise sorting has been proposed. Entire ROM has been proposed to crush and screen.	Crushing and screening of ROM has been observed.	NIL.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Crushing and screening by mechanical means.	Crushing and screening by mechanical means.	NIL.
7c	Different grade of mineral sorted out at mines.	No proposal.	Not applicable.	NIL.
7d	Any beneficiation process at mines .	No proposal of any beneficiation process.	Not applicable as no proposal of beneficiation.	NIL.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No specific proposal of mineral beneficiation and grade wise sorting.	Beneficiation of ROM is not required as ROM is directly usable in cement plant after crushing and screening.	Ni issues related mineral conservation was observed.

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation during 2018-19.	Not applicable as no proposal.	NIL.
8b	Concurrent use or storage of topsoil	Not applicable as no proposal of top soil generation.	Not applicable.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of waste/OB has been proposed. No proposal of generation of rejects and fines during 2018-19.	Waste has been dumped at its designated place.	NIL.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal of use of overburden/waste rock for restoring the land to its original use during the year 2018-19.	Cumulatively around 3.30 Ha. area has been backfilled by the end of 2018-19 in the interest of protection of environment.	Cumulatively an area of around 2.7 Ha of backfilling has been afforested.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal of during the year 2018-19.	Cumulatively around 3.30 Ha. area has been backfilled by the end of 2018-19 in the interest of protection of environment.	Cumulatively an area of around 2.7 Ha of backfilling has been afforested.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	An area of 2.4 ha has been proposed to afforested.	An area of 0.60 ha has been afforested during the year 2018-19.	Violation of rule 11(1) of MCDR, 2017 has been issued vide letter dated 06/09/2019.
8g	Survival rate	No specific proposal of survival rate.	78.56%	As per AR 2018-19.
8h	Water sprinkling on roads to control airborne dust	To control the air born dust particle, water sprinkling has been proposed.	Waster sprinkling has been observed during the mine inspection.	NIL.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	To improve aesthetic beauty of the mine, an area of 2.4 Ha has been proposed to afforested.	An area of 0.60 ha has been afforested during the year 2018-19. However, aesthetic beauty of the mine and around is being improved through plantation.	Violation of rule 11(1) of MCDR, 2017 has been issued vide letter dated 06/09/2019.
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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR, 2017, holder of mining lease should submitted Monthly and Annual return.	Monthly and Annual return of the year 2018-19 has been submitted by the lessee.	NIL.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information of Mining Engineer, Geologist and Manager has been furnished.	Mining Engineer, Geologist and Mine Manager as per MCDR, 2017 has been appointed at the mine.	NIL.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings-78.70 Ha. Used for waste disposal-39.60 Ha, reclaimed and rehabilitated-2.70 Ha, Occupied by plant, building, workshop, roads, plantation-4.80 Ha, Other-60.40 Ha, Total-186.40 Ha.	The details of land use furnished in AR appear to be correct except for the area under waste disposal.	Violation of rule 45 issued for showing less area under waste disposal.
9d	Scrutiny of Annual return on afforestation	Information of plantation of 2500 sapling within lease area has been furnished.	The details afforestation furnished in AR appear to be correct.	NIL.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject generation has been furnished as NIL.	Mineral reject has not been generated.	NIL.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The quantity of ROM and Graded closing stock is furnished as NIL or Zero.	Entire produced ROM and Graded stock has been dispatched.	NIL.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price- Rs. 246.57 per tonne, Production cost per tonne- Rs. 246.57 per tonne. Sale value-not applicable as the mine is having captive consumption.	Ex mine price- Rs. 246.57 per tonne, Production cost per tonne- Rs. 246.57 per tonne.	NIL.
9h	Scrutiny of Annual return on fixed assets	The value of fixed asset furnished is Rs. 5527376.00	The information furnished appears to be correct.	NIL.
9k	Scrutiny of Annual return on mining machineries	Back Hoe, Dozer, Front end loader, Dumper, Water Tanker, Rock drill, Crusher, Conveyor etc.	The information furnished in respect of mining machineries appears to be correct.	NIL.

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**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
MCDR17	Rule 11(1)	06-SEP-19	14-OCT-19	MCDR17	Rule 47(a)	06-SEP-19 03-DEC-19
MCDR17	Rule 45(7)(a)	06-SEP-19	14-OCT-19			
MCDR17	Rule 47(a)	06-SEP-19				

**Date :**

**(DILIP JAIN)**

Indian Bureau of Mines