

**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 : **G021**) **D R GURJAR**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sri T. K. Dhelawat, Mine Manager and Sri Jyotirmay Th
Official with
Designation
- (iv) Date of Inspection : 15-OCT-22
- (v) Prev.inspection date : 08-SEP-21

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@shreecement.com
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 : 856.33
- (c) Period of lease : 20
- (d) Date of Expiry : 27-JAN-18
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 : Jyotirmay Thada, Full Time
 Qualification : M.Sc. Geology
 Appointment/ : 20-SEP-19
 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
		MP modif under 17(3) MCR 2016	01-OCT-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	No backlog
1b	Exploration over lease area for geological axis 1 or 2	No Proposal	No exploration during the year 2021-22.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Applicable	Not Applicable	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	Total Lease Area- 856.8 Ha. Total Mineralized Area - 206.6 Ha. Total explored area upto G1 level -136.35 Ha, Over remaining mineralised area village populations are there.
1e	Balance reserve as on 01/04/20	As per approved document dated 01.10.2019, the position of reserves as on 31.05.2019 was 37.63 million tonnes.	As on 01.04.2022, the positions of reserve is 34.10 million tonnes.	Nil
1f	General remarks of inspecting officers on geology, exploration etc	No proposals for exploration	Not applicable	Nil

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Eastern Pit Section Line S5600 to S6600 & Western Pit Section Line S4400 to S6000	Western Pit Section Line S4400 to S6000	Production was only from Western Pit because due to lack of demand of cement in market.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil benches, only OB & mineral benches proposed.	As per proposal.	Nil
2c	Stripping ratio or ore to OB ratio	1:0.40	1:0.25	Nil
2d	Quantity of topsoil generation in m3	No proposal of top soil generation	No top soil generated during the year.	Nil
2e	Quantity of overburden generation in m3	2021-22: 320143 m3	2021-22: 116226 m3	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development has been carried out over proposed location.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits namely eastern pit and western pit	Only one pit (western Pit) only	Production was carried out only from Western Pit because due to lack of demand of cement in market.
3b	Quantity of ROM mineral production proposed	2021-22: 2.0 million tonnes	2021-22: 1.153 million tonnes	Less production due to lack of demand of cement in market.
3c	Recovery of sailable/usable mineral from ROM production	2021-22: 2.0 million tonnes	2021-22: 1.153 million tonnes	100% recovery of sailable/usable mineral from ROM production
3d	Quantity of mineral reject generation	No Proposal	Not Applicable	Nil

3e	Grade of mineral rejects generation and threshold value declared.	No Proposal	Not Applicable	Nil
3f	Quantity of sub grade mineral generation.	No Proposal	Not Applicable	Nil
3g	Grade of sub grade mineral generation	No proposals	Not Applicable	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No Proposal	Not Applicable	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	Not Applicable	Nil
3j	Provision of drilling and blasting in mineral benches	Yes, DTH Drill 6.5" Depth 9 Mtrs. Blasting by non-electric detonators	Yes as per proposal.	Nil
3k	Provision of mining machineries in mineral benches	4 Excavators, 9 Dumpers	3 Excavators, 6 Dumpers	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed Height of the benches is 9 mts.	Height of the benches has been observed as per proposal.	Nil
3m	Total area covered under excavation/pits	88.4 hect. at the end of the year 2022-23	81.4 hect. at the end of year 2021-22	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.40	1:0.25	Nil

3o	Total area put in use under different heads at the end of year	Pit- 88.4 Ha Waste/reject Dump - 48.4 Ha Others - Road & Buildings - 6.0 Ha Total of 142.8 hect area has been proposed to use at the end of year 2022-23 (plan period)	Pit- 81.4 Ha Waste/reject Dump - 41.5 Ha Others - Road & Buildings - 6.0 Ha Total of 128.9 hect area has been used under different heads at the end of year 2021-22	Nil
3p	Production of ROM mineral during the last five year period as applicable	2017-18: 2.0 Million Tonnes 2018-19: 1.5 Million Tonnes 2019-20: 2.0 Million Tonnes 2020-21: 2.0 Million Tonnes 2021-22: 2.0 Million Tonnes 2022-23: 2.0 Million Tonnes	2017-18: 1.041 Million Tonnes 2018-19: 1.490 Million Tonnes 2019-20: 1.385 Million Tonnes 2020-21: 1.366 Million Tonnes 2021-22: 1.153 Million Tonnes 2022-23 (upto Sep 2022): 0.681 Million Tonnes	Less production due to lack of demand of cement in market.
3q	General remarks of inspecting officers on method of mining etc.			Open cast fully mechanised mining method is adopted which is suited 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)	No proposal of top soil and mineral reject dumping. OB/IB proposed to dump separately.	No top soil and mineral reject generation. OB/IB waste generated has been dumped on enmarked area.	Nil
4b	Location of topsoil, OB and mineral reject dumps	During the year 2021-22 following proposal of waste dumping Waste Dump 2 - S6000 to S6400 Waste Dump 3 - S5000 to S6000	Waste Dump 2 - S6000 to S6400 Waste Dump 3 - S5100 to S6000	However no proper terracing of waste dump no. 3 was observed hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated.....

4c	Number of dumps within lease area and outside of lease area	Within lease area-4 Outside lease area- Nil	Within lease area-4 Outside lease area- Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	Nil
4e	Number of active and alive dumps.	2	2	Waste Dump No 2 & Waste Dump No 3
4f	Number of dead dumps.	1	1	Waste Dump No 1
4g	Number of dumps established.	1	1	Waste Dump No 4
4h	Whether Retaining wall or garland drain all along dumps are there.	No specific proposals, Only maintenance proposals are given	Garland drain & Retaining wall observed at necessary places around the dump	Nil
4i	Length of Retaining wall or garland drain all along dumps	No specific proposal of Retaining wall and garland drain	No construction of Retaining wall and garland drain during the reporting year.	Nil
4j	Number of settling ponds	No Proposal	Not applicable	Nil
4k	Specific comments of inspecting officer on waste dump management			However no proper terracing of waste dump no. 3 was observed hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated.....

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.	Part of Eastern pit has been fully exhausted and proposed for backfilling	Part of Eastern pit has been fully exhausted	Nil

5b	Area under backfilling of mined out area	0.5 Ha. area is proposed during 2021-22	0.3 Ha. Area has been backfilled and cum. 4.25 ha. area has been backfilled upto 31.03.2022.	During the year 2021-22, backfilling was proposed over an area of 0.5 hect. but actual backfilling has been carried out over an 0.3 hect. area, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated.....
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal for top soil generation	Top soil not generated during 2021-22	Nil
5d	Total area fully reclaimed and rehabilitated	0.5 Ha backfilled area is proposed for plantation during 2021-22	0.25 Ha. backfilled area has been afforested during 2021-22	During the year 2021-22, Plantation over backfilled area was proposed over an area 0.5 hect.(600 nos. saplings) but actual plantation over 0.25 hect. backfilled area (400 nos. saplings) has been carried out, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated.....

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Mineral is exhausted in part of eastern pit and 0.5 Ha. area was proposed for plantation after backfilling.	0.3 Ha. area has been backfilled and plantaion over 0.25 Ha. backfilled area has been carried out.	(1)During the year 2021-22, backfilling was proposed over an area of 0.5 hect. but actual backfilling has been carried out over an 0.3 hect. area, hence violation of Rule 11(1) issued vide letter dated..... (2)During the year 2021-22, Plantation over backfilled area was proposed oven an area 0.5 hect.(600 nos. saplings) but actual plantation over 0.25 hect. backfilled area (400 nos. saplings) has been carried out, hence violation of Rule 11(1) issued vide letter dated.....
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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 PMCP report shall be sumitted before 1st July of every year for the previous financial year.	PMCP report has been submitted for 2021-22.	Nil

6b	Area available for rehabilitation (ha) .	Backfilled area- 0.5 Ha. Waste Land- 0.5 Ha.	Backfilled area- 0.3 Ha. Waste Land- 0.6 Ha.	During the year 2021-22, backfilling was proposed over an area of 0.5 hect. but actual backfilling has been carried out over an 0.3 hect. area, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated.....
6c	afforestation done (ha).	Proposed over 0.5 Ha. over backfilled area & 0.5 hect over waste land.	Plantation carried out over 0.25 Ha. backfilled area & 0.6 hect. over waste land.	During the year 2021-22, Plantation over backfilled area was proposed over an area 0.5 hect. (600 nos. saplings) but actual plantation over 0.25 hect. backfilled area (400 nos. saplings) has been carried out, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated.....
6d	No. of saplings planted during the year	600 nos. over bakfilled area & 600 nos. over waste land.	400 nos. over backfilled area, 1305 nos. over waste land & 350 nos. over waste dump.	During the year 2021-22, Plantation over backfilled area was proposed over an area 0.5 hect. (600 nos. saplings) but actual plantation over 0.25 hect. backfilled area (400 nos. saplings) has been carried out, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated.....
6e	Cumulative no .of plants	No specific proposal on cum. no of plantation	Cum. 92250 no. of plants upto 31.03.2022	Nil

6f	Any other method of rehabilitation	No other than plantation method is proposed for rehabilitation	Plantation has been carried out	Nil
6g	Cost incurred on watch and care during the year	No proposal	Cost considered in mining activities	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	250mX150m	256mX135m and 110mX 80m	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.5 Ha area proposed	0.3 Ha area has been backfilled	During the year 2021-22, backfilling was proposed over an area of 0.5 hect. but actual backfilling has been carried out over an 0.3 hect. area, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated.....
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	0.5 Ha. area is proposed	Plantation has been carried out over 0.25 Ha area	Violation has been issued under Rule 11(1) of MCDR, 2017
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable	Rain Water Harvesting being done
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	600 nos. 0.5 ha Plantation	1305 nos. 0.6 ha Plantation	Nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.5 ha. area is proposed for afforestation	Plantation carried out over 0.6 Ha. area over waste land.	Nil
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 for environment monitoring parameter has been given	Environment monitoring is being carried out and parameters are found within permissible limits	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			(1)During the year 2021-22, backfilling was proposed over an area of 0.5 hect. but actual backfilling has been carried out over an 0.3 hect. area, hence violation of Rule 11(1) issued vide letter dated..... (2)During the year 2021-22, Plantation over backfilled area was proposed over an area 0.5 hect.(600 nos. saplings) but actual plantation over 0.25 hect. backfilled area (400 nos. saplings) has been carried out, hence violation of Rule 11(1) issued vide letter dated.....

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	2021-22: 2 million tonnes	2021-22: 1.153 million tonnes	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No gradewise mineral sorting proposal given	Not applicable	All the cement grade limestone feed to captive cement plant.
7c	Different grade of mineral sorted out at mines.	No proposal	Not applicable	Nil
7d	Any beneficiation process at mines	No proposal	Not applicable	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No specific proposal of mineral beneficiation and grade wise shorting	ROM is direct usable in cement plant after crushing and screening	No issue observed related to mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation during the RY 2021-22.	No top soil generated during the RY 2021-22.	Nil
8b	Concurrent use or storage of topsoil	No proposal of top soil generation	Not applicable	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate dumping for OB/waste. No rejects and fines generation	OB/waste has been dumped separately	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB/waste has been proposed to backfill in mined out area of 0.5 ha.	0.3 ha. area has been backfilled.	Nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	An area of 0.5 ha is proposed for Backfilling	0.3 Ha. area has been backfilled	During the year 2021-22, backfilling was proposed over an area of 0.5 hect. but actual backfilling has been carried out over an 0.3 hect. area, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated.....
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	600 nos. over bakfilled area & 600 nos. over waste land.	400 nos. over backfilled area, 1305 nos. over waste land & 350 nos. over waste dump.	During the year 2021-22, Plantation over backfilled area was proposed over an area 0.5 hect. (600 nos. saplings) but actual plantation over 0.25 hect. backfilled area (400 nos. saplings) has been carried out, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated.....
8g	Survival rate	No proposal	70.22%	Nil
8h	Water sprinkling on roads to control airborne dust	To control air/ born dust paricles, water sprinkling is proposed	Water sprinkling has been observed during the inspection	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The general aesthctic beauty in and around mine area is satisfactory.

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 Monthly and annual returns to be submitted	Monthly and annual returns have been submitted timely.	Nil

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager Sh. T K Dhelawat Mining Engineer Sh. Surendra Vyas Geologist Sh. Jyotirmay Thada	Mining engineer, Geologist and Manager have been appointed	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Open Pit 81.4 Ha, Reclaimed / Rehabilitated 3.95 Ha, Waste Disposal 41.5 Ha Plant & Building 6.0 Ha	The land use pattern furnished in the return seems corrected.	Nil
9d	Scrutiny of Annual return on afforestation	An AR 2055 nos. saplings reported having surviavl rate 70.22%.	Seems corrected	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No minral reject reported in AR 2021-22.	No mineral reject observed	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM & Grade wise stock reported- Nil	Seems corrected	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production & Ex mine price- Rs. 292.25 per tonne	Seems corrected	Nil
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets reported- Rs. 65252326	Seems corrected	Nil
9k	Scrutiny of Annual return on mining machineries	Details furnished in AR 2021-22	Seems corrected	Nil

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
MCDR17	Rule 11(1)	05-DEC-22			

Date :**(D R GURJAR)**

Indian Bureau of Mines