

**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. P. C. Barber, Mine Manager and Sh. Jyotirmay Thad
Official with
Designation
- (iv) Date of Inspection : 05-JAN-24
- (v) Prev.inspection date : 15-OCT-22

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 correspondance** : **M/S SHREE CEMENT Ltd., P.O Box No-33**
BANGUR NAGAR, BEAWAR- 305901
Rajasthan
3. (a) **Lease Number** : **RAJ0001**
- (b) **Lease area** : **856.8**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **31-MAR-30**
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 : Neeraj Akhoury
 Elegant Business Park,MIDC
 Cross Road Boff Andheri
 Kurla Road Mumbai Andheri
 East,Maharashtra-400059
 MUMBAI (SUBURBAN)
 MAHARASHTRA
 Phone:
 FAX :

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 19-JUN-23
 Termination date

Manager

Name : Sh. P. C. Barber
 Qualification : BE Mining
 Appointment/ : 20-JUN-23
 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

MP review under 17(1) MCR 2016

19-JAN-23

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal of exploration for previous year 2021-22.	No exploration during previous year 2021-22.	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during reporting year (RY) 2022-23.	No exploration during reporting year (RY) 2022-23.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal.	Not applicable.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	37.39 hectare area under G4 level of exploration.	No proposal of exploration as the area fall under dense habitation and 300 mts safety zone from village boundary.	Nil
1e	Balance reserve as on 01/04/20	The position of reserve and resource as on 31/05/2019 was 37.63 and 47.05 million tons respectively.	The position of reserve and resource as on 01.04.2023 was 32.75 and 47.05 million tons respectively.	Nil
1f	General remarks of inspecting officers on geology, exploration etc			An area of 37.39 hectare is under G4 level of exploration and there is no proposal of exploration as area fall under dense habitation and 300 mts safety zone from village boundary.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Eastern Pit and western Pit.	Development/Excavation within the approved limit in Eastern Pit and western Pit.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil generation. Separate benches in waste and mineral.	No top soil was generated during RY. Separate removal of waste and mineral.	Nil
2c	Stripping ratio or ore to OB ratio	1:0.40 Ton/Ton	1:0.34 Ton/Ton	Nil
2d	Quantity of topsoil generation in m3	No proposal of top soil generation.	No top soil was generated during RY 2022-23.	Nil
2e	Quantity of overburden generation in m3	320143 m3	185150.40 m3	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The rock limestone occurs near to the surface, hence, the opencast method of development was proposed and the best suitable to the type of deposit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two.	Two.	Nil
3b	Quantity of ROM mineral production proposed	2.0 Million Ton	1.338 2.0 Million Ton	Less production due to less demand from the cement plant.
3c	Recovery of sailable/usable mineral from ROM production	2.0 Million Ton	1.338 2.0 Million Ton	Less production due to less demand from the cement plant.
3d	Quantity of mineral reject generation	No proposal.	No mineral reject generation during RY.	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.	No sub-grade mineral generation during RY.	Nil
3g	Grade of sub grade mineral generation	No proposal.	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	DTH Drill 6.5" Depth 9 Mtrs. Blasting by non-electric detonators.	As per proposal.	Nil
3k	Provision of mining machineries in mineral benches	Excavator and dumper combination.	Excavator 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 were proposed to maintain at 9 mts.	Height of the benches was maintained as per proposal.	Nil
3m	Total area covered under excavation/pits	88.40 Ha at the end of year 2022-23.	84.00 Ha at the end of year 2022-23.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.40 Ton/Ton	1:0.34 Ton/Ton	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, at the end of year 2022-23.	Pit - 84.0 Ha, Dump - 41.50 Ha, Road and Buildings - 6.0 Ha, Reclaimed and rehabilitated 4.30 Ha. at the end of year 2022-23.	Nil

3p	Production of ROM mineral during the last five year period as applicable	2018-19: 1.50 2019-20: 2.0 2020-21: 2.0 2021-22: 2.0 2022-23: 2.0	2018-19: 1.49 2019-20: 1.38 2020-21: 1.36 2021-22: 1.14 2022-23: 1.33	All figures in million tons. Less production due to less requirement at Plant. All figures in million tons.
3q	General remarks of inspecting officers on method of mining etc.			The rock limestone occurs near to the surface, hence, the opencast method of mining was proposed and the best 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)	No proposal of top soil and MR generation. Separate dumping of waste.	No top soil and MR generation. Waste dumped separately.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Waste Dump 2 - S60 to S64 Waste Dump 3 - S50 to S60	Dumping of the waste during RY within approved limit.	Nil
4c	Number of dumps within lease area and outside of lease area	4 within lease area.	4 within lease area.	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.	No proposal.	Not applicable.	Nil
4f	Number of dead dumps.	No proposal.	Not applicable.	Nil
4g	Number of dumps established.	No proposal.	Not applicable.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes.	Retaining wall and garland drain observed.	Nil

4i	Length of Retaining wall or garland drain all along dumps	No proposal.	Not applicable.	Maintenance only.
4j	Number of settling ponds	No proposal.	Not applicable.	Nil
4k	Specific comments of inspecting officer on waste dump management			No issue related to waste dumping.

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 the eastern pit proposed to backfill.	Backfilling in the eastern pit has been observed.	Nil
5b	Area under backfilling of mined out area	0.50 ha during RY.	0.53 ha during RY.	A total of 4.30 Ha area of eastern pit has been backfill at the end of year 2022-23.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	Not applicable.	Nil
5d	Total area fully reclaimed and rehabilitated	0.50 ha during RY.	0.53 ha during RY. A total of 4.30 Ha area of eastern pit has been backfill at the end of year 2022-23.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			A total of 4.30 Ha area of eastern pit has been backfill at the end of year 2022-23.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	As per rule 26(2) of MCDR, 2017, PMCP report to be submitted for previous year by 1st July.	Annual PMCP report for reporting year 2022-23 was submitted.	Nil
6b	Area available for rehabilitation (ha) .	No proposal.	Not applicable.	Nil
6c	afforestation done (ha).	1.0 Hctare (0.50 Hect of waste land+0.50 hect of backfilled area)	0.95 Hctare (0.50 Hect area of waste land+0.35 hect area of backfilling+0.10 hect area of waste dump)	Less plantation as the backfilled area is not matured for the plantation. Hence an area of 0.10 hectare of waste dump was planted with 200 numbers of saplings.
6d	No. of saplings planted during the year	1200 number of plants.	1200 number of plants.	Nil
6e	Cumulative no .of plants	No proposal.	93450 nos at the end of 2022-23.	Nil
6f	Any other method of rehabilitation	No proposal.	Not applicable.	Nil
6g	Cost incurred on watch and care during the year	No proposal.	Not applicable.	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.50 hectare.	0.53 hectare.	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	96000 CuM or 240000 tons.	185150.40 CuM or 462876.0 tons.	Nil

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	0.5 hectare with 600 no of saplings.	0.35 hectare with 250 no of saplings.	Less plantation as the backfilled area is not matured for the plantation. Hence an area of 0.10 hectare of waste dump was planted with 200 number of saplings.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	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	600 nos.	750 nos.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.50 Hectare.	0.50 Hectare.	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)	Regular monitoring as per norms.	Environmental monitoring was carried out as per proposal.	No issue related to compliance of PMCP.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The PMCP compliance is satisfactory.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade wise sorting, only crushing and screening.	As per proposal.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical (crushing and screening).	Mechanical (crushing and screening).	Nil
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 issue related to mineral conservation as entire ROM is useable.

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation.	No top soil generation during RY 2022-23.	Nil
8b	Concurrent use or storage of topsoil	No proposal.	Not applicable.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of the waste.	Separate dumping of the waste.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Not applicable.	Nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	An area of 0.50 hectare of area proposed to backfill.	An area of 0.53 hectare backfilled during RY.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Total 1.0 ha (0.50 waste land and 0.50 backfilled area).	0.95 Hctare (0.50 Hect area of waste land+0.35 hect area of backfilling+0.10 hect area of waste dump)	Less plantation as the backfilled area is not matured for the plantation. Hence an area of 0.10 hectare of waste dump was planted with 200 numbers of saplings.
8g	Survival rate	No proposal.	70 %	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling to control air born dust.	Water sprinkling observed.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and 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	As per rule 45 of MCDR, monthly and annual returns to be submitted.	Monthly and annual returns have been submitted for the reporting year.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Sh. P C. Barber, Mining Engineer: Sh. Surendra Vyas, Geologist: Sh. Jyotirmay Thada	Miner: Sh. P Mining Engineer, Geologist and Manager is appointed.	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit - 84.0 Ha Dump - 41.50 Ha Road and Buildings - 6.0 Ha, Reclaimed and rehabilitated 4.30 Ha.	The information of land use appears to be in order.	Nil
9d	Scrutiny of Annual return on afforestation	1200 nos.	Found in order.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	MR generation: NIL	No mineral reject generation.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Rom and graded ore stock: NIL	Found in order.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price and cost of production: Rs. 292.62/-	The information furnished appears in order. Sale value is Nil being a captive utilization.	Nil
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets: 146653156	Appears in order and includes the value of Shyamgarh mine of the lessee.	Nil
9k	Scrutiny of Annual return on mining machineries	Bake Hoe, Dozer, front end loader, dumper, waster tanker, rock drill, crusher, conveyer, other HEM machinery.	Bake Hoe, Dozer, front end loader, dumper, waster tanker, rock drill, crusher, conveyer, other HEM machinery.	Nil

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

Date :

(DILIP JAIN)

Indian Bureau of Mines