

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/PAL-37/LST-2

**Mine code :** 38RAJ21003

- (i) Name of the Inspecting : **K010** ) **Kotriwal B.L.**  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Shri M K Garg, Mine Agent  
Official with  
Designation
- (iv) Date of Inspection : 17-AUG-21
- (v) Prev.inspection date : 13-JAN-21

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **NIMBETI**
- (b) **Registration NO.** : **IBM/960/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **RAJASTHAN**
- District : **PALI**
- Village : **NIMBETI**
- Taluka : **JAITARAN**
- Post office : **RAS**
- Pin Code :
- FAX No. : **01462-228117-19**
- E-mail : **shreebwr@shreecementltd.cor**
- Phone : **01462-228101-06**
- (f) **Police Station** : **Nimbeti**
- (g) **First opening date** : **13-JUN-97**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **SHREE CEMENT LTD.,**  
**correspondance** **PO-ANDHERI DEORI,**  
**BEAWER, DISTT- AJMER, 305901**
3. (a) **Lease Number** : **RAJ1666**
- (b) **Lease area** : **750**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **13-NOV-46**
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 : Manish Bohra, Full Time  
 Qualification : B E (Mining)  
 Appointment/ : 22-APR-09  
 Termination date

Geologist  
 Name : R S RAJPUROHIT, Full Time  
 Qualification : MSC(GEOLOGY)  
 Appointment/ : 28-MAR-16  
 Termination date

Manager  
 Name : Pankaj Agrawal  
 Qualification : B E (Mining)  
 Appointment/ : 16-APR-01  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Fresh under rule 22 MCR1960 08-APR-96  
 Mining Scheme rule 12 MCDR1988 31-MAR-03  
 Modif.approved Mining Scheme 04-JUN-04  
 Modif.approved Mining Scheme 08-SEP-05  
 Mining Scheme rule 12 MCDR1988 29-JAN-07  
 Modif.approved Mining Scheme 09-OCT-09  
 Mining Scheme rule 12 MCDR1988 18-JUL-12  
 Modif.approved Mining Scheme 26-JUN-13  
 MP modif under MCR 1960 13-MAY-16  
 MP modif under 17(3) MCR 2016 23-MAR-18  
 MP review under 17(1) MCR 2016 03-DEC-19

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	None	No backlog in previous year.
1b	Exploration over lease area for geological axis 1 or 2	No proposal	None	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	None	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	None	Entire potentially mineralized area 385ha. has already been explored upto G1 Level
1e	Balance reserve as on 01/04/20	As per approved document dated 03.12.2019, the position of reserve on 30.09.2019 was 682 million tonnes.	Balance reserve as on 01.04.2021, 659million tonnes	Nil
1f	General remarks of inspecting officers on geology, exploration etc			Entire potentially mineralized area 385ha. has already been explored upto G1 Level

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Between section lines: S5-S52,E8-W7.	Between section lines: S5-S52,E8-W7.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil. 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	1:0.32	1:0.31	Nil
2d	Quantity of topsoil generation in m3	No proposal	None	Nil
2e	Quantity of overburden generation in m3	3.23 million cubic meter.	1.92 million cubic meter.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development has been proposed through opencast method of mining.	Develop has been carried out as per proposal.	Open cast method of development is suitable as the mineral occurs near surface.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Nil
3b	Quantity of ROM mineral production proposed	25.30 Million tonnes	15.47 Million tonnes	During the year 2020-21, 25.30 million tonnes ROM production was proposed, but 15.47 million tonnes ROM production carried out against this proposal which is around 61.14% of the proposal. Such low achievements in production has substantially changed pit profile effecting all subsequent year also, thereby necessitating of modification in the review of mining plan.Hence, Violation under rule 11(1) of MCDR 2017 has been issued vide letter dated 26.08.2021

3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Nil
3d	Quantity of mineral reject generation	No proposal	None	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	Not applicable as no proposal.	Nil
3f	Quantity of sub grade mineral generation.	No proposal.	Not applicable as no proposal.	Nil
3g	Grade of sub grade mineral generation	No proposal.	Not applicable as no proposal.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	None	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	None	Nil
3j	Provision of drilling and blasting in mineral benches	Yes	Yes ,as per proposal	Nil
3k	Provision of mining machineries in mineral benches	Hydraulic excavator, Dumper, Drill Machine, Rock Breaker, Dozer etc.	Hydraulic excavator, Dumper, Drill Machine, Rock Breaker, Dozer etc.	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 is 12 mts	It appears that height of the benches propose is suitable and maintained as per proposal.	Nil
3m	Total area covered under excavation/pits	312Ha	268.95Ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.32	1:0.31	Nil

3o	Total area put in use under different heads at the end of year	It was proposed that total 550.3ha area put in use under different heads at the end of the plan period i.e. 2024-25	At the end of the year 2020-21, total 447.62 ha area used under different heads.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2016-17-21.4mT, 2017-18-25.3mT, 2018-19-25.3mT, 2019-20-32.8mT, 2020-21-25.3mT.	2016-17-16.98 mT, 2017-18-19.28 mT, 2018-19-17.46 mT, 2019-20-15.85 mT, 2020-21-15.47 mT.	Nil
3q	General remarks of inspecting officers on method of mining etc.	Opencast Mining Method was proposed	Method of Mining is suitable to the deposit.	During the year 2020-21, 25.30 million tonnes ROM production was proposed, but 15.47 million tonnes ROM production carried out against this proposal which is around 61.14% of the proposal. Such low achievements in production has substantially changed pit profile effecting all subsequent year also, thereby necessitating of modification in the review of mining plan.Hence, Violation under rule 11(1) of MCDR 2017 has been issued vide letter dated 26.08.2021

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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 have not been generated during the year. Waste generated during the year has been dumped separately.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Face waste dump:Dump1-S37-S53 & W15-W3,Dump2-S21-S27 &W6-E2,Dump3-S00-S17& W1-E8,Dump4-S25-S27 &W3-W7 and Dump5-S05-S11 & E10-E16. For screen waste: Dump1:S31-S39 & W3-W11, Dump2: S15-S24 & W4-E4 and Dump3: S13-S17 & E10-E13.	Face waste dump: Dump1-S40-S50 & W4-W11, Dump2-S22-S27 &W5-E0, Dump3-S01-S17& W1-E7,Dump4-S25-S27 & W4-W6. For screen waste: Dump1:S32-S40 & W6-W11, Dump2: S17-S22 &W2-E3.	Nil
4c	Number of dumps within lease area and outside of lease area	8 nos dumps have been proposed within mining lease area	6 nos dumps have been carried out within mining lease area	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed outside of UPL.	Observed outside of UPL.	Nil
4e	Number of active and alive dumps.	8nos	6nos	Nil
4f	Number of dead dumps.	No proposal	None	Nil
4g	Number of dumps established.	No proposal	None	Nil

4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and Garland drain all along dumps have been proposed	Retaining wall and Garland drain all along dumps have been made except screen waste dump no. 02.	However, screen waste dump No.2 has not been properly secured by terracing retaining wall and garland drain.It has also been observed that deep gullies due to flow of water on screen waste dump have been emerged causing erosion and spread of screen material over the large area.Hence violation under rule 11(1) of MCDR 2017 has been issued vide letter dated 26.08.2021.
4i	Length of Retaining wall or garland drain all along dumps	3000m garland drain and 3000m retaining wall have been proposed all along the dumps.	3000m garland drain and 3000m retaining wall have been made all along the dumps.	Nil
4j	Number of settling ponds	No proposal	Not applicable as no proposal.	Nil
4k	Specific comments of inspecting officer on waste dump management			Screen waste dump No.2 has not been properly secured by terracing retaining wall and garland drain.It has also been observed that deep gullies due to flow of water on screen waste dump have been emerged causing erosion and spread of screen material over the large area.Hence violation under rule 11(1) of MCDR 2017 has been issued vide letter dated 26.08.2021.



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 full or part extraction of mineral from mine out area.	Not applicable as no proposal.	Nil
5b	Area under backfilling of mined out area	No proposal	Not applicable as no proposal.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of top soil generation for reporting year.	Not applicable as no proposal.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal	None	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No reclamation and rehabilitation of mine out area has been observed.

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 2020-21 has been submitted timely.	Nil
6b	Area available for rehabilitation (ha) .	1.5Ha.	2.04Ha	Nil
6c	afforestation done (ha).	1.5Ha.	2.04 Ha.	Nil
6d	No. of saplings planted during the year	1800 Nos	4495 Nos	Nil
6e	Cumulative no .of plants	No specific proposal	117095 Nos	Nil
6f	Any other method of rehabilitation	No proposal	None	Nil

6g	Cost incurred on watch and care during the year	23.50lakh	32.80Lakh	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal	None	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	None	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	None	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	None	However, rain water was observed at pit bottom
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	None	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1.5Ha	2.04Ha	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.5 Ha.	2.04 Ha	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)	Quarterly proposal	Being done	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The main approach road to mine is through air polluted zone of their captive cement plant.Hence violation issued under rule 11(1) of MCDR 2017 has been issued vide letter dated 26.08.2021

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade wise sorting is proposed	Total ROM feed to crusher	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	None	Nil
7c	Different grade of mineral sorted out at mines.	No proposal	100% ROM is utilised.	Nil
7d	Any beneficiation process at mines .	No specific beneficiation process at mines	None	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			There is no issue regarding mineral conservation in the mine.

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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation during 2020-21.	No top soil was generated during the year 2020-21	Nil
8b	Concurrent use or storage of topsoil	No specific proposal.	No top soil was generated during the year 2020-21.	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 2020-21.	Waste has been dumped at its designated place.No generation of reject and fines during the year	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.	Generated waste material during the year has been dumped at its designated place.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	None	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 1200 nos saplings over an area of 01.00 Ha. within mining lease area have been proposed to plant.	A total of 4495 number of saplings over an area of 2.04 Ha. within mining lease area have been planted.	Nil
8g	Survival rate	No specific proposal	99.00%	As reported in AR 2020-21.
8h	Water sprinkling on roads to control airborne dust	To control the air born dust particle, water sprinkling has been proposed.	Water sprinkling has been observed during the mine inspection.	Nil

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The general aesthetic beauty in and around mine area was satisfacotry.
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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 monthly and annual returns to be submitted.	Monthly returns upto July, 2021 and Annual returns for the year 2020-21 have been submitted timely.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information of Mining Engineer, Geologist and Manager have been furnished.	Details found to be correct	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Used for waste disposal- 91.52Ha., Covered under o/c working: 268.95Ha., Occupied by plant, buildings, residential, welfare buildings & roads-11Ha. etc.	Found to be correct	Nil
9d	Scrutiny of Annual return on afforestation	Information of plantation of 4495sapling within lease area and 7805 sapling outside lease area has been planted.	Found to be correct.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject generation: NIL	No mineral reject has been generated.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock:NIL, Graded stock: NIL.	Entire Graded stock has been dispatched to the plant.	Nil

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price- Rs. 188.67 per tonne, Production cost per tonne- Rs. 188.67 per tonne. Sale value-not applicable in case of captive consumption.	Details found not to be correct.	In item 5 of part-III overhead expenditure showed Rs12695543 so per tonne cost should be Rs 0.820 under overhead whereas in Part VII lessee has reported Rs.16.05 per tonne under overhead.Hence, Violation of rule 45(7) of MCDR 2017 has been issued vide letter dated 26.08.2021.
9h	Scrutiny of Annual return on fixed assets	The value of fixed asset furnished is Rs. 94135721.	The information furnished appears to be correct.	Nil
9k	Scrutiny of Annual return on mining machineries	Back Hoe, Dozer, Front end loader, Dumper, Blast Hole Drill, Explosive Ven, Water Tanker, Crusher, Road Roller 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 45(7)(b)	26-AUG-21				
MCDR17 Rule 11(1)	26-AUG-21				

**Date :**

**(Kotriwal B.L.)**

Indian Bureau of Mines