

**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 : **K018**) **Dr A Z Khan**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : T K Dhealwat, Sr. GM(Mines)
Official with
Designation
- (iv) Date of Inspection : 11-DEC-23
- (v) Prev.inspection date : 12-DEC-22

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	No backlog of previous year	None
1b	Exploration over lease area for geological axis 1 or 2	No proposal	Nil	None
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Not applicable	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Not applicable	Entire 385 ha. potentially mineralized area has already been explored to G1 level.
1e	Balance reserve as on 01/04/20	As per approved mining plan dated 03.12.2019 the position of reserves as on 30.09.2019 was 682 million tonnes	Balance Mineral Reserves as on 01.04.2023 is 624 million tonnes	None
1f	General remarks of inspecting officers on geology, exploration etc			Entire 385 Ha. potentially mineralised area has already been explored to G1 level

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Between section lines S400-S5300 & E-900 -W700	Between section lines S700-S5000 &E-700 -W700,	Development has not been carried out as per proposal for which violation of rule 11(1) of MCDR, 2017 has been pointed out

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil and OB. 08 Nos. of Benches in Mineral i.e. 444MRL to 348 MRL Bench Height-12 m have been proposed in mineral zone.	There are no top soil and OB generation.07 Nos. of Benches in Mineral i.e. 456 MRL to 372MRL Bench Height-12 m.	Interburden is there in limestone bands for which dumping proposal is given
2c	Stripping ratio or ore to OB ratio	There is no OB, Interburden is there . The proposed stripping ratio was 1:0.31	1:0.44 is Actual striping ratio	Nil
2d	Quantity of topsoil generation in m3	No proposal	There was no soil generation.	None
2e	Quantity of overburden generation in m3	There was no OB, proposal for Inter Burden generation was 3.18 million m3	Inter Burden generation during the year was 3.12 million m3	None
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. Open cast method of development is suitable as the mineral occur from surface level.	Open cast method of development is suitable as the mineral occur from surface level.	Development has not been carried out as per proposal for which violation of rule 11(1) of MCDR, 2017 has been pointed out

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Pit wise proposals were not planned and production area was marked in text & plates from grid lines	It is a hilly deposit and working benches in the lease area are advancing in depths	None

3b	Quantity of ROM mineral production proposed	25.30 Million tonnes	17.51 Million Tones	None
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	None
3d	Quantity of mineral reject generation	No proposal	Mineral reject generated in the form of screen reject is reported below threshold value and therefore, reported under waste	None
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Threshold value is 34% CaO and reject material from screens is below threshold value of 32% CaO	Nil
3f	Quantity of sub grade mineral generation.	No proposal	No sub grade generation	Nil
3g	Grade of sub grade mineral generation	No proposal	No sub grade generation	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized Method proposed for segregating from ROM	Mechanized Method adopted for segregating from ROM. Wobblers are there before crushing operations to segregate calcareous material.	Inter spacious clay is screened and stacked separately. However, not separately reported.
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, Crawler mounted DTH hammer drill machine HRB-150 & Drill hole dia - 165mm, Bench height 12 mt proposed	As per proposal 07 Nos of HRB150 having drill dia-165 mm deployed	Nil

3k	Provision of mining machineries in mineral benches	Crusher- Nos. 4 Hydraulic Excavator PC 1250 - 13 Nos Komatsu HD 465 E-7 Dumpers - 42 Nos. Rock Breakers - Nos Hyd. Drill machines - 1- Nos Dozer - 7 Nos Front end loader - 2 Nos. Jeep - 4 Nos Water Tanker - 3 Nos Explosive van - 2 Nos ANFO Mixer- 2 Nos. Mai	4 Crusher make L & T 1200 TPH- 4 Nos HEMM presently used Hydraulic Excavator PC 1250 - 12 Nos Komatsu HD 465 E-7 Dumper- 36 Nos. Kobelco SK 350 LC Rock Breaker - 10 Nos Drill INDUS HRB- 150 - 7 Nos Dozer Komatsu - 7 SDLG 856 Make loader- 2 Nos Jeep - 4 Nos Water Tanker - 3 Explosive van - 2 Nos Bulk	None
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No OB, Height of the benches in mineral have been proposed 12 mts	During inspection it was observed that at places benches are not made properly and profile of benches also not maintained	Violation of rule 11(1) of MCDr,2017 has been pointed out
3m	Total area covered under excavation/pits	312 Ha	299.80 Ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.31	1:0.44	Nil

3o	Total area put in use under different heads at the end of year	Excavation area - 312 Ha, Waste Dump Area -204 Ha, Infrastructure -11.00 Ha, Total=527.0	At the end of the year 2022-23, Excavation area - 299.80 Ha, Waste Dump Area -138.72 Ha, Infrastructure-11.00 Ha Total=449.52 ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2018-19-25.3 Million ton 2019-20-25.3 Million ton 2020-21-25.3 Million ton 2021-22-25.3 Million ton 2022-23-25.3 Million ton	2018-19-17.46 Million ton 2019-20-15.85 Million ton 2020-21-15.47 Million ton 2021-22- 16.62 Million ton 2022-23-17.51 Million ton	Less cement demand in market, so less ROM mineral Production in year 2022-23
3q	General remarks of inspecting officers on method of mining etc.	Open cast mining method was proposed	Being surficial deposit, the method of Open cast mining is suitable to the deposit	None

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 generation. Separate dumping proposal for waste (IB) in 08 nos of dumps.	Waste(IB) generated during the year has been dumped separately in 07 nos dumps (05 No. dumps for Face Waste & 02.No. dumps for Screen Waste	Waste dump management has not been carried out as per approved proposal. The waste is not properly spread over dumps and at places terracing also not found. Violation of rule 11(1) of MCDR,2017 has been pointed out

4b	Location of topsoil, OB and mineral reject dumps	Face waste- S3700-S5300 & W300- W1500 S2100-S2700 & E200-W600 S00-S1700 & E800-W100 S2200- S2700&W300- W500 S700- S1100&E1100- E1400 Screen Waste- S3300 -S3800& W300-W1100 S1500 - S2400&E300- W400 S1300- S1700&E1000- E1300	Face Waste- S4000 -S5000 & W400- W1200 S2300-S2700&E00-W500 S100-S1700&E700-W100 S2500-S2700 &W300-W500 S700-S1100& E1100-E1400 Screen Waste- S3300 - S3800&W300-W1100 S1700 -S2300 & E200-W200	Waste dump management has not been carried out as per approved proposal. The waste is not properly spread over dumps and at places terracing also not found. Violation of rule 11(1) of MCDR,2017 has been pointed out
4c	Number of dumps within lease area and outside of lease area	08 No. dumps within lease areas	07 No. dumps within lease areas	There are separately 05 No. dumps for Face Waste & 02.No. dumps for Screen Waste
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Face Waste- S3700-S5300 & W300- W1500 S2100-S2700 & E200-W600 S00-S1700 & E800-W100 S2200-S2700& W300-W500 S700-S1100 & E1100-E1400 Screen Waste- S3300 -S3800 & W300-W1100 S1500 -S2400 & E300-W400 S1300- S1700&E1000- E1300	Face Waste- S4000 -S5000 & W400- W1200 S2300-S2700&E00-W500 S100-S1700 &E700-W100 S2500-S2700 & W300-W500 S700-S1100 & E1100-E1400 Screen Waste- S3300 - S3800 &W300-W1100 S1700 -S2300 & E200-W200	None
4e	Number of active and alive dumps.	08 Nos of Active Dumps	07 Nos of Active Dumps	None
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.	No fresh proposal for this year	Retaining Wall & Garland drain made before this year & Maintained only in this Year	Provided Retaining Wall & Garland drain all around dumps at toe of dump yard.
4i	Length of Retaining wall or garland drain all along dumps	Garland Drain =2630m Maintenance Only Retaining Wall = 2630m Maintenance Only	Garland Drain =2630m Maintenance Only Retaining Wall = 2630m Maintenance Only	None
4j	Number of settling ponds	No proposal	Nil	None
4k	Specific comments of inspecting officer on waste dump management			Waste dump management has not been carried out as per approved proposal. The waste is not properly spread over dumps and at places terracing also not found. Violation of rule 11(1) of MCDR, 2017 has been pointed out

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	None	Nil
5b	Area under backfilling of mined out area	No proposal	None	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	No top soil generation during the year	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal	None	Nil

5e	General remarks of inspecting officers on backfilling and reclamation etc.	The pit is active & there was no proposal of backfilling in the year 2022-23 and no reclamation and rehabilitation of mined out area was observed.
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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 2022-23 has been submitted within time.	Nil
6b	Area available for rehabilitation (ha) .	No proposal	None	Nil
6c	afforestation done (ha).	10.00 Ha(1.0 Ha in Lease Area & 9 Ha outside Lease Area)	10.02 Ha(1.02 Ha in Lease Area & 9 Ha outside Lease Area)	Cum. no. of plantation- 153701 & Cum. Area- 194.36 Ha
6d	No. of saplings planted during the year	12000 Nos.	12042 Nos of sapling planted	Nil
6e	Cumulative no .of plants	No specific proposals	Cumulative no. of plants is 153701	Nil
6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	No specific proposal	Cost included in environment management & not calculated separately	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 backfilled area	No proposal	None as there is no backfilled area	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	None	Nil
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	Proposed 12000 plantation on 10.0 Ha (1.0 Ha in Lease Area & 9 Ha outside Lease Area)	12042 no. of Plantation done over an area 10.02 Ha. (1.02 Ha in Lease Area & 9 Ha outside Lease Area)	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Plantation proposed over an area 10 Ha.	Plantation has been carried out over an area 10.02 ha.	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation	As per proposal	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly Air and Water Monitoring Proposed	Quarterly Air and Water Monitoring carried out	Nil

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	All benches are active, no mined out area is available for rehabilitation. Plantation is being carried out at dump's matured terrace
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Direct despatch of ROM mineral to the crusher with annual target of 25.3 Million tonnes	Direct despatch of ROM mineral to the crusher of 17.51 Million tones has been carried out during the year	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal for grade-wise sorting	Whole ROM dispatched to crusher	Screen reject unit installed for screening interstitial clay material
7c	Different grade of mineral sorted out at mines.	No proposal .	No different grade of mineral available, only Cement grade limestone is available	Screening of ROM has been carried out for separating interstitial clay from limestone
7d	Any beneficiation process at mines .	No specific beneficiation process at mine	Screening for separating interstitial clay from limestone	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Whole ROM is being used to meet the desired grade, screen reject is being used for making gypsum. No Mineral conservation & beneficiation issues observed

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	No top soil was generated during the year 2022-23	None
8b	Concurrent use or storage of topsoil	No proposal	No top soil was generated during the year 2022-23	None
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of waste & screen has been proposed. No proposal of generation of rejects and fines during 2022-23	The different waste material dumped Separately on earmarked dump yard for Waste & Screen waste	No generation of reject and fines during the year 2022-23
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Generated waste material & screen reject during the year has been dumped at its designated place.	None
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	It is a hilly deposit and mineral persist in depths. Mining operations were commenced from top of the hill. The pit & dumps are active.	None
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	12000 Nos. saplings was proposed in 10.0 Ha	12042 Nos. saplings was planted in 10.02Ha,	Cum. no. of plantation - 153701 & Cum. Area-194.36 Ha
8g	Survival rate	No specific proposal	Survival rate is 98%, As per AR for the year 2022-23	None
8h	Water sprinkling on roads to control airborne dust	Water sprinkling was proposed to control airborne dust on road	Water sprinkling was observed during inspection	None

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The general aesthetic beauty in and around mine area was satisfactory
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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 in specific time period	Monthly returns upto November, 2023 and Annual returns for the year 2022-23 have been submitted timely	None
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information of Mining Engineer, Geologist and Manager have been furnished	Manager-Shri T.K.Dhelawat, Mining Engineer- Shri Harish Kumar Arya Geologist- Shri Rajendra Singh.	Details found to be correct
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area Under Pits- 299.80 Ha, Waste Dump are- 138.72 Ha, Occupied by plant, buildings, residential, welfare buildings & roads-11 Ha	Found to be correct	None
9d	Scrutiny of Annual return on afforestation	12042 sapling within & outside lease area has been planted	Seem to be correct	None
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject generation reported Nil	Seem to be correct	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock was reported nil	Seem to be correct	None

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The cost of production & ex-mine price is given as Rs.236.58 per tons	It seems correct	None
9h	Scrutiny of Annual return on fixed assets	The value of fixed asset furnished is Rs. 227982805/-	The details appear to be correct	None
9k	Scrutiny of Annual return on mining machineries	Details given in AR	HEMM presently used Hydraulic ExcavatorPC 1250 - 11Nos Kobelco SK 350 LC R.B - 10 Nos Komatsu HD 465 E-7 Dumper- 36Nos. Drill INDUS HRB- 150 - 7 Nos Dozer Kamatsu- 7Nos Dozer CAT D8R - 1Nos Jeep -4Nos Water Tanker - 3Nos Explosive van - 2Nos Bulk Mixing delivery vehicle (ANFO)- 2 Nos Maintenance Van - 2Nos	None

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)	22-DEC-23			

Date :

(Dr A Z Khan)

Indian Bureau of Mines