

**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 : **J003**) **Jangid G.K.**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Shri Pankaj Agrawal, AVP (Mines)
Official with
Designation
- (iv) Date of Inspection : 12-DEC-22
- (v) Prev.inspection date : 17-AUG-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 385 ha. potentially mineralized area has been already explored
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 01.04.2022 is 642 million tonnes	Nil
1f	General remarks of inspecting officers on geology, exploration etc			entire 385 Ha. potentially mineralised area has already been explored.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Between section lines S5-S52 & E-9 -W7	Between section lines S5-S52 & E-8 -W7	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil and OB benches have been proposed in mineral zone.	No generation. Benches in mineral have been maintained as per proposal. Mining operations were commenced from top of the hill without any OB. Interburden is there in limestone bands.	Nil

2c	Stripping ratio or ore to OB ratio	1:0.31	1:0.35	Nil
2d	Quantity of topsoil generation in m3	No proposal	None	Nil
2e	Quantity of overburden generation in m3	3.13 million m3	2.33 million m3	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	Development has been carried out as per proposal	Open cast method of development is suitable as the mineral occur from surface level.

Exploitation:

Sl.No.	Item	Proposals	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, being a hill deposit.	It is a hilly deposit and working benches in the lease area are advancing in depths.	Nil
3b	Quantity of ROM mineral production proposed	25.30 Million tonnes	16.63 Million Tones	ROM production is carried out around 65.73 % against 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 04.01.2023. dated

3c	Recovery of sailable/usable mineral from ROM production	100%	100%; although screening operations is there and reported under waste. Part of the reject material is used for manufacturing gypsum.	Nil
3d	Quantity of mineral reject generation	No proposal	Mineral reject is reported below threshold value and therefore, reported under waste. A violation latter is issued in this regard.	Nil
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	None	Nil
3g	Grade of sub grade mineral generation	No proposal	None	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	Yes ,as per proposal 07 Nos of HRB150 having drill dia-165 mm & maintaining bench height 12 mt deployed	Nil

3k	Provision of mining machineries in mineral benches	Crusher-4 Nos, Hydraulic excavator, Hydraulic Excavator PC 1250 -16 Nos, Komatsu HD 465 E-7 Dumpers - 48 Nos, Rock Breakers -10 Nos Hyd. Drill machines -12 Nos, Dozer - 7 Nos, Front end loader -2 Nos, Jeep - 4 Nos, Water Tanker - 3 Nos, Explosive van -	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 in mineral have been proposed 12 mts	As per proposal, suitable Benches Height of 12m in Mineral	Nil
3m	Total area covered under excavation/pits	280 Ha	266.40 Ha	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.31	1:0.35	Nil
3o	Total area put in use under different heads at the end of year	total 550.3ha area proposed to be put in use under different heads at the end of the plan period i.e. 2024-25	At the end of the year 2021-22, total 436.7 ha area used under different heads	
3p	Production of ROM mineral during the last five year period as applicable	2017-18-25.3mt, 2018-19-25.3mt, 2019-20-32.8mt, 2020-21-25.3mt and 2021-22-25.3mt	2017-18-19.28mt, 2018-19-17.46mt, 2019-20-15.85mt, 2020-21-15.47mt and 2021-22- 16.63mt	Less production in these five years and justification is asked through violation letter.

3q	General remarks of inspecting officers on method of mining etc.	Open cast mining method was proposed	Method of mining is suitable to the deposit	ROM production is carried out around 65.73 % against 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 04.01.2023. dated
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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 generated during the year has been dumped separately in 06 nos dumps (04 No. dumps for Face Waste & 02.No. dumps for Screen Waste)	Nil
4b	Location of topsoil, OB and mineral reject dumps	S0 -S17 & W 1- E 8, S21-S27 & W 6-E 2, S 37-S 53 & W 15-W 3, S25-S27& W3-W7, S05-S11 & E10-E16 for Face waste S31 -S39 & W3-W11, S15 -S24 & W4-E3, S13-S17&E10-E13 for Screen Waste.	S1 -S17 & E0- E 7, S23-S27 & W 5-E 0, S 40-S 50 &W11-W5 and S6-S10 & E9-E12 for Face waste. S32 -S39 & W10-W6, S17 - S23 & W2-E2 for Screen Waste.	Seprate dumping of waste, 04 No. dumps for Face Waste & 02.No. dumps for Screen Waste
4c	Number of dumps within lease area and outside of lease area	08 dumps within lease area	06 umpgs within lease area	Nil

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	S0 -S17 & W 1- E 8, S21-S27 & W 6-E 2, S 37- S 53 & W 15-W 3, S25-S27& W3-W7, S05-S11 Face waste S31 -S39 & W3-W11, S15 -S24 & W4-E3, S13-S17&E10-E13 for Screen Waste.	S1 -S17 & E0- E 7, S23- S27 & W 5-E 0, S 40-S 50 &W11-W5 and S6-S10 & E9- E12 for Face waste. S32 -S39 & W10-W6, S17 - S23 & W2-E2 for Screen Waste.	Nil
4e	Number of active and alive dumps.	08 active dumps	06 active dumps	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.	Garland drain proposed all along dumps proposed	As per proposal	Nil
4i	Length of Retaining wall or garland drain all along dumps	Proposal for Garland Drain of 2630m and Retaining Wall of 2630m are there.	Garland Drain found of 2700 Meter and Retaining Wall constructed of 2700 meter	Nil
4j	Number of settling ponds	No proposal	01	Nil
4k	Specific comments of inspecting officer on waste dump management			The work of terracing of waste is going on.

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	Nil	Nil
5b	Area under backfilling of mined out area	No proposal	Nil	Nil

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No proposal of backfilling was made in the year 2021-22 and no reclamation and rehabilitation of mined out area was observed.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	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 2021-22 has been submitted within time.	Nil
6b	Area available for rehabilitation (ha) .	No proposal	None	Nil
6c	afforestation done (ha) .	10.00 Ha	10.05 Ha	Nil
6d	No. of saplings planted during the year	12000 Nos.	12264 Nos	Nil
6e	Cumulative no .of plants	No specific proposals	141659 Nos.	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 on backfilled area	No Proposal	None	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 plantation on 10.0 Ha (1.0 Ha in Lease Area & 9 Ha outside Lease Area)	Plantation done over an area 10.05 Ha.	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 10.05 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 terrance

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Direct dispatch of ROM mineral to the crusher with annual target of 25.3 Million tonnes	Direct despatch of ROM mineral to the crusher of 16.63 Million tonnes	ROM production is carried out around 65.73 % against 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 04.01.2023
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	Nil
7c	Different grade of mineral sorted out at mines.	No different grade of mineral	Screen ROM for separating interstitial clay from limestone	Nil
7d	Any beneficiation process at mines .	No specific beneficiation process at mine	Screening for separating interstitial clay from limestone	Screen reject unit is installed for separating interstitial clay from limestone

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
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	No top soil was generated during the year 2021-22	Nil
8b	Concurrent use or storage of topsoil	No Specific proposal	No top soil was generated during the year 2021-22	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 2021-22	Waste has been dumped at its designated place. No generation of reject and fines during the year 2021-22	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Generated waste material during the year has been dumped at its designated place. It is a hilly deposit and mineral persist in depths.	Nil
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.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	12000 Nos. saplings was proposed in 10.0 Ha	12264 Nos. saplings was planted in 10.05Ha	Cum.plantation - 141659 Nos. Total cum. Area- 184.34 Ha

8g	Survival rate	No specific proposal	98%	As per AR for the year 2021-22
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	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 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 in specific time period	Monthly returns upto November, 2022 and Annual returns for the year 2021-22 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.	Area Under Pits- 299.80 Ha, Waste Dump are- 102.60 Ha, Occupied by plant, building s, residential, welfare buildings & roads-11 Ha	Found to be correct.	Nil
9d	Scrutiny of Annual return on afforestation	plantation of 5150 sapling within lease area and 7114 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 reported Nil	No mineral reject generation is separately reported and considered part of waste material.	A violation of rule 45 is issued in this regard.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock was reported nil	ROM stock around 1.5 lakh tonnes was there near crusher 4	The opening & closing stock of ROM quantity is always reported as zero in MR/AR; although around 1.5 lakh tonnes ROM stock is maintained within lease area near crusher-4. Violation of rule 45(5) has been issued vide letter dated 04.01.2023
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The cost of pulverization (Beneficiation -Mechanical only) is reported Rs.0.00 per tonne in Part-VI item 3(ii)	Details not found to be correct	The cost of pulverization (Beneficiation-Mechanical only) is reported Rs.0.00 per tonne in Part-VI item 3(ii) and not separately shown in the cost of production. Therefore violation under rule 45(5) has been issued on 04.01.2023
9h	Scrutiny of Annual return on fixed assets	The value of fixed asset furnished is Rs. 477.42545Lakh	The details appear to be correct	Nil

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	Nil
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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

Date :

(Jangid G.K.)

Indian Bureau of Mines