

**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 : Sh. M K Garg, A.V.P.(Mines)
Official with
Designation
- (iv) Date of Inspection : 03-MAR-20
- (v) Prev.inspection date : 05-AUG-19

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	Not proposed	Nil	
1b	Exploration over lease area for geological axis 1 or 2	04 Holes-680 mtrs.	34 Holes- 5597.1 mtrs.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Rs. 151.76 Lac	
1d	Balance area to be explored to bring Geological axis in 1 or 2	11 Ha.	14 ha at depth of 200 mRL	
1e	Balance reserve as on 01/04/20	Total Mineral Resource-802million tones -Minable Reserve-682million tones -Remaining Resources-120million tones	17.46million tones depleted during FY 2018-19	
1f	General remarks of inspecting officers on geology, exploration etc			Mineralised area has been fully explored.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	S8-S52 &E-8 - W8	S8-S52 & W8	E-8 -
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There are no top soil and OB in excavation. 09 Nos. of Benches in Mineral i.e. 456 MRL to 360 MRL Bench Height-12 m	There are no top soil and OB in excavation. 09 Nos. of Benches in Mineral i.e. 456 MRL to 360 MRL Bench Height-12 m	

2c	Stripping ratio or ore to OB ratio	1:0.30	1:0.32	
2d	Quantity of topsoil generation in m3	Not Proposed	Nil	
2e	Quantity of overburden generation in m3	3.02million m3	2.26 Million m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Less generation of waste due to lower limestone production.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	25. 30 Million Tones	17.46 Million Tones	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Whole ROM
3d	Quantity of mineral reject generation	No Proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal of Mineral Reject generation	Nil	
3f	Quantity of sub grade mineral generation.	No Proposal	Nil	
3g	Grade of sub grade mineral generation	No Proposal	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	No Proposal	Nil	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	Nil
3j	Provision of drilling and blasting in mineral benches	Crawler mounted DTH hammer drill machine HRB-150 & Drill hole dia - 165mm, Bench height 12 mt	Deployed 07 Nos of HRB150 having drill dia- 165mm & Maintaining bench height 12 mt
3k	Provision of mining machineries in mineral benches	Crusher- 5 Nos. Hydraulic Excavator PC 1250 - 16 Nos Dumpers - 48 Nos. Rock Breakers - - Nos Hyd. Drill machines - 12 Nos Dozer - 7 Nos Front end loader - 2 Nos. Jeep - 4 Nos Water Tanker - 4 Nos Explosive van - 2 Nos ANFO Mixer- 2 Nos. Maintenance Van - 2 Nos Diesel Tanker-	Crusher - 5 Nos HEMM presently used Hydraulic Excavator PC 1250 - 12 Nos Kobelco SK 350 LC R.B - 9 Nos BEML 210M Dumper - 14 Nos Komatsu HD 465 E-7 Dumper- 28 Nos. Drill INDUS HRB- 150 - 7 Nos Dozer Kamatsu - 6 Nos Dozer CAT D8R - 1 Nos SDLG 856 Make loader- 2 Nos Jeep - 4 Nos Water Tanker - 4 Nos Explo

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	280 Ha	261.545 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.30	1:0.32	
3o	Total area put in use under different heads at the end of year	Excavation area - 280 ha Waste Dump Area -144 ha Infrastructure -6.3 ha	Excavation area - 261.545 ha Waste Dump Area -82.324 ha Infrastructure-6.3 ha	
3p	Production of ROM mineral during the last five year period as applicable	2014-15-19.6 Million ton 2015-16-19.6 Million ton 2016-17-21.4 Million ton 2017-18-25.3 Million ton 2018-19-25.3 Million ton 2019-20- 32.8 Million Ton	2014-15-15.24 Million ton 2015-16-16.41 Million ton 2016-17-16.98 Million ton 2017-18-19.28 Million ton 2018-19-17.46 Million ton 2019-20- 14.68 Million ton (up to 29 feb 2020)	
3q	General remarks of inspecting officers on method of mining etc.			Less cement demand in market, so less ROM mineral Production in year 2018-19

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate Dumping of Waste (Inter-burden) in 5 nos. of dumps No overburden & Mineral Reject	Separate Dumping of Waste (Inter-burden) in 5 nos. of dumps. No overburden & Mineral Reject	

4b	Location of topsoil, OB and mineral reject dumps	S1 -S17 & W 1- E 7 S21-S27& W 6-E 1 S 51-S 37 & W 13-W 3 for Face waste (3 nos.) S32 -S49& W11-W 3 S15 -S24& W4-E4 for Screen Waste (2 Nos.)	S1 -S17 &E1- E 7 S23-S27 & W 3-E 1 S 50-S 40 & W 10-W6 for Face waste (3 Nos.) S32 -S40& W10-W 4 S17 -S23& W2-E 2 for Screen Waste (2 Nos.)	
4c	Number of dumps within lease area and outside of lease area	05	05 No. dumps within lease areas No dumping Outside ML area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	S1 -S17 & W 1- E 7 S21-S27 & W 6- E 1 S 51-S 37 & W 13-W 3 for Face waste S32 -S49 & W11-W 3 S15 -S24 & W4-E4 for Screen Waste	S1 -S17 & W 1- E 7 S21-S27 & W 6-E 1 S 51-S 37 & W 13-W 3 for Face waste S32 -S49 & W11-W 3 S15 -S24 & W4-E4 for Screen Waste	
4e	Number of active and alive dumps.	05 Nos of Active Dumps	05 Nos of Active Dumps	
4f	Number of dead dumps.	Not Proposed	Nil	
4g	Number of dumps established.	No Proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain all along dumps proposed	Provided Garland drain all around dumps at toe of dump yard.	
4i	Length of Retaining wall or garland drain all along dumps	Garland Drain 3100 Meter Retaining Wall 3100 meter	retaining wall has not been constructed along waste dump between section lines S400 to S700 and also S1700 to S2100	Violation letter issued under rule 11(1) if MCDR, 2017
4j	Number of settling ponds	02 Nos.	02 Nos.	

4k	Specific comments of inspecting officer on waste dump management			Violation under rule 11(1) of MCDR, 2017 was issued for not constructing retaining wall along waste dump between section lines S400 to S700 and also S1700 to S2100
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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	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No proposal was made for backfilling and reclamation for the year 2018-19

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).	Yes	Yes	

6b	Area available for rehabilitation (ha) .	2.04 Ha	2.21 Ha	
6c	afforestation done (ha).	11 Ha.	18.61 Ha	All benches are active
				2000 Nos. Vetiver Leaf grasses planted in area 2.21 Ha for stabilization of waste dump was including in total Plantation.
6d	No. of saplings planted during the year	13200 Nos.	15400 nos.	
6e	Cumulative no .of plants		103905 Nos. planted Survived 83.74 %	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	1.50 Lac	23.80 Lac	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No Proposal	Nil	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Proposed plantation on 11.0 Ha 2.0 Ha in Lease Area & 9 Ha outside Lease Area	Plantation -15400 Area-18.61 Ha Cum. -103905 Nos. Total cum. Area- 157.08 Ha Survival rate- 83.74 %	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly proposed	Complied with monitoring quarterly	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Work has been carried out as per proposal made in the approved Mining Plan

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	25.30 Million Tonnes	17.46 Million Tonnes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal for grade wise sorting	Nil	
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	No Different Grade of mineral available
7d	Any beneficiation process at mines .	No specific beneficiation process at mines except screening of limestone	ROM screened for separating interstitial clay from limestone	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Less cement demand in market, so less ROM mineral Production in year 2018-19

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	1200 Tones from Site for waste dumping	
8b	Concurrent use or storage of topsoil	No top soil at excavation Site	Small patches of Top soil at Site for Dumping removed and concurrently used for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste dump for face waste & screen waste has been provisioned	The different waste material dumped Separately on earmarked dump yard for Waste & Screen waste	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Year 2018-19- 13200 Nos. in 11.0 Ha.	Year 2018-19- 15400 Nos. in 18.61 Ha	
8g	Survival rate		Survival rate- 83.74 %	
8h	Water sprinkling on roads to control airborne dust	As per provision	Complied with Four water tankers i.e. two each of 35 KL, one nos. of 28KLand one 08 KL capacities and Fixed Water Sprinkling system installed along the Haul Road up to 1.5 KM length.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			2000 Nos. Vetiver Leaf grasses planted in area 2.21 Ha for stabilization of waste dump was including in total Plantation for the year 2018-19

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns and annual returns submitted for the year 2018-19	Details in the returns have been scrutinised	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details provided	Details verified	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details given	1.Land use: - As on 31.03.2019 Forest Area- Nil Govt. Waste land- 572.80 Ha Private agriculture- 177.20 Ha Total Land- 750.00 Ha 2. Area Under Pits- 261.545 Ha 3. Waste Dump are- 82.324 Ha	
9d	Scrutiny of Annual return on afforestation	Details given	verified	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Details given	verified	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given	Verified	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details given	found under reported	Violation was issued under rule 45 of MCDR, 2017
9h	Scrutiny of Annual return on fixed assets	Details Given	Verified	

9k	Scrutiny of Annual return on mining machineries	HEMM presently Details given used Hydraulic Excavator EX 1200 - 3 Nos Hydraulic ExcavatorPC 1250 - 10Nos Kobelco SK 350 LC R.B - 11 Nos BEML210M Dumper - 14Nos Komatsu HD 465 E-7 Dumper- 28 Nos. Drill INDUS HRB- 150 - 7 Nos Dozer Kamatsu - 6Nos Dozer CAT D8R - 1Nos Jeep - 4Nos Water Tanker - 4Nos Explosive van -
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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 11(1)	17-MAR-20			
	Rule 45(7)	17-MAR-20			

Date :

(Kotriwal B.L.)

Indian Bureau of Mines