

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JHUN-01/LST-01

Mine code : 38RAJ17002

- (i) Name of the Inspecting : **G021**) **D R GURJAR**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sh. M. K. Garg, Mines Agent
Official with
Designation
- (iv) Date of Inspection : 05-DEC-23
- (v) Prev.inspection date : 18-JAN-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GOTHRA (47/07)**
- (b) **Registration NO.** : **IBM/960/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : JHUNJHUNU
- Village : GOTHRA
- Taluka : NAWALGARH
- Post office : Nawalgarh
- Pin Code : 333042
- FAX No. : 01462 2218117
- E-mail : shreebwr@shreecementltd.com
- Phone : 01462 228101
- (f) Police Station : NAWALGARH
- (g) First opening date : 01-JUN-19
- (h) Weekly day of rest : SUN
2. Address for : POST BOX NO 33
correspondance : BANGUR NAGAR
BEAWAR
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
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 : SHREE CEMENT LTD
 BANGUR NAGAR BEAWAR AJMER
 RAJASTHAN
 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 : Pankaj Sharma,Full Time
 Qualification : BE (Mining)
 Appointment/ : 13-JAN-22
 Termination date

Geologist

Name : Jai Kumar shukla,Full Time
 Qualification : M.Sc. (Geology)
 Appointment/ : 13-JAN-22
 Termination date

Manager

Name : Manish Bohra
 Qualification : BE Mining
 Appointment/ : 29-DEC-20
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP modif under 17(3) MCR 2016 03-MAR-22

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal during the previous year 2021-22.	During the year 2021-22, total 24 bore holes having 5216m drilling has been carried out.	Exploration completed in the year 2021-22.
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during the year 2022-23.	None during the year.	Total 135 Ha area is mineralized & 489 Ha area is non mineralized. Entire Mineralised area is explored up to G1 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal during the year 2022-23.	None during the year 2022-23.	Nil.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal during the year 2022-23.	None during the year 2022-23.	Out of total 624 hect lease area, total 135 Ha area is mineralized & 489 Ha area is non mineralized. Entire Mineralised area is explored up to G1 level up to year 2021-22.
1e	Balance reserve as on 01/04/20	No specific proposal given.	Balance reserves as on 01.04.2023 : 179 million tonne	Nil
1f	General remarks of inspecting officers on geology, exploration etc			No issue observed related to geology & exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Between section lines S11 to S20 & E6 to W2	Between section lines S10 to S22 & E6 to W2.5	During the year 2022-23, mine development was proposed between section lines S11 to S20 & E6 to W2 whereas actual mine development has been carried out between section lines S10 to S22 & E6 to W2.5, hence violation of Rule 11(1) issued vide letter 15.01.2024.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, proposal given	Separate benches observed in top soil, overburden and minerals.	Nil
2c	Stripping ratio or ore to OB ratio	1:0.0001	1:0.00004	Nil
2d	Quantity of topsoil generation in m3	11111111 M ³	11055267 M ³	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			During the year 2022-23, mine development was proposed between section lines S11 to S20 & E6 to W2 whereas actual mine development has been carried out between section lines S10 to S22 & E6 to W2.5, hence violation of Rule 11(1) issued vide letter 15.01.2024.

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	2022-23: 2000T	2022-23: 817.25T	Nil

3c	Recovery of sailable/usable mineral from ROM production	2022-23: 2000T	2022-23: 817.25T	Nil
3d	Quantity of mineral reject generation	No proposal	Not generated	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 during the year 2022-23.	Not generated during the year	Nil
3g	Grade of sub grade mineral generation	No proposal during the year 2022-23.	Not applicable	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal during the year 2022-23.	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	The provision of drilling & blasting has been given.	Drilling & blasting has been carried out as per proposal.	Nil
3k	Provision of mining machineries in mineral benches	Yes provision of mining machineries given.	As per proposal	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Maximum height in limestone, OB and alluvium soil as 12m, 10m, 3m respectively.	Bench height maintained as per proposal	Nil

3m	Total area covered under excavation/pits	39.60 hect.	66.82 hect.	As per approved Modified mining plan(approved on 03.03.2022), the area put to use at the end of year 2022-23 under head mining is proposed 39.60 hect, under head waste dumping is proposed 67 hect. and under head infrastructure & roads is proposed 4.0 hect whereas in submitted annual retrun for the year 2022-23, the area put to use reported under mining is 66.82 hect., under waste dumping is 108.202 hect. and under infrastructure & roads is 12.864 hect, hence violation of Rule 11(1) issued.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.0001	1:0.00004	Nil

3o	Total area put in use under different heads at the end of year	110.60 hect.(up to year 2022-23)	187.886 hect.(up to year 2022-23)	As per approved Modified mining plan(approved on 03.03.2022), the area put to use at the end of year 2022-23 under head mining is proposed 39.60 hect, under head waste dumping is proposed 67 hect. and under head infrastructure & roads is proposed 4.0 hect whereas in submitted annual retrun for the year 2022-23, the area put to use reported under mining is 66.82 hect., under waste dumping is 108.202 hect. and under infrastructure & roads is 12.864 hect, hence violation of Rule 11(1) issued.
3p	Production of ROM mineral during the last five year period as applicable	Year 2019-20(I Year): No proposal Year 2020-21(II Year): No proposal Year 2021-22(III Year): 500T, Year 2022-23(IV Year): 2000T, Year 2023-24(V Year): 1800000T	Year 2019-20(I Year): 0T Year 2020-21(II Year): 0T Year 2021-22(III Year): 478.18T Year 2022-23(IV Year): 817.25T Year 2023-24(V Year): 11268T(Up to Nov 2023)	Nil
3q	General remarks of inspecting officers on method of mining etc.		Fully mechanised open cast mining method adopted which is suited to the type of deposit.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	OB dumped separately and no proposal for topsoil and mineral reject dumping	OB dumped in existing & new dumps in nonmineralized area of lease.	Nil
4b	Location of topsoil, OB and mineral reject dumps	No proposal of topsoil & mineral reject dump. OB Dump proposed as: Dump No. 1: S3-S19 Dump No. 2: S14-S19	No Dumping of top soil & mineral reject. Total seven OB dumps made during the year in the scattered locations.	During the year 2022-23, waste dumping was proposed in two waste dumps namely Waste Dump No.1 & Waste Dump No. 2 towards North western side of the lease area but at the end of year total Seven numbers of waste dumps have been created in the scattered locations, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 15.01.2024.
4c	Number of dumps within lease area and outside of lease area	Within lease area-2 dumps, Outside lease area- no proposal.	Within lease area- 7 dumps, No waste dumping outside lease area.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump No.1- Proposed Outside UPL Dump No.2- Proposed Outside UPL	Few dumps located partially within UPL limit.	Nil
4e	Number of active and alive dumps.	02	07	Nil
4f	Number of dead dumps.	No proposal	None	Nil
4g	Number of dumps established.	No proposal	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall or garland drain all along dumps Proposed	Retaining wall /garland drain all along dumps constructed	Nil
4i	Length of Retaining wall or garland drain all along dumps	Retaining Wall -1350m & Garland Drain1370m	Retaining Wall -13904m & Garland Drain13904m	Nil

4j	Number of settling ponds	No Proposal	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management			During the year 2022-23, waste dumping was proposed in two waste dumps namely Waste Dump No.1 & Waste Dump No. 2 towards North western side of the lease area but at the end of year total Seven numbers of waste dumps have been created in the scattered loacations, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 15.01.2024.

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 during the year 2022-23.	None	This is the new mine & registered on 08.05.2019. The year 2019-20 was the first year of mining lease priod. Mine development work started during the year 2021-22.
5b	Area under backfilling of mined out area	No Proposal during the year 2022-23.	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Yes, cuncurrent use of top soil for plantation.	As per proposal	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal	None	This is new mine. During the year 2021-22, mine development work started, hence area not matured for fully reclamation & rehabilitated.

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).	Annaul PMCP report shall be submitted up to 1st July for the previous financial year.	PMCP report for the year 2022-23 submitted.	Timely submission.
6b	Area available for rehabilitation (ha) .	No proposal	None	Nil
6c	afforestation done (ha).	Year 2022-23: 3 hect.	Year 2022-23: 3.6 hect.	Nil
6d	No. of saplings planted during the year	Year 2022-23: 3600 nos.	Year 2022-23: 3607 nos.	Nil
6e	Cumulative no .of plants	No specific proposal given	4910 nos.	Up to year 2022-23.
6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	Rs. 3.6 lakhs	Rs. 7.365 lakhs	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Not applicable	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Not applicable	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal	Nil	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	Year 2022-23: 3600 nos. sapling proposed.	Year 2022-23: 3607 nos. sapling planted.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	3.0 hect. by plantation	3.6 hect. by plantation	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	By Plantation	By Plantation	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Compliance of environmental monitoring proposed.	Environmental monitoring carried out.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP Compliances is satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	During the year 2022-23, entire ROM mineral dispatch proposed.	As per proposal	Nil

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal of grade wise mineral sorting.	None	Nil
7c	Different grade of mineral sorted out at mines.	No proposal	None	Nil
7d	Any beneficiation process at mines .	No proposal	None	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			This is new mine, mine development work started in the year 2021-22. No issue observed related to mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	During the year 2022-23, it was proposed that Top soil will be separately removed and used for plantation.	As per proposal	Nil
8b	Concurrent use or storage of topsoil	Concurrent use for plantation	Concurrent use for plantation	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for overburden proposal given.	Separate dump for overburden made.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal given	Not applicable	Nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal during the year 2022-23.	None during the year 2022-23.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 2022-23 total 3600 nos. sapling proposed over an area 3.0 hect.	During the year 2022-23 total 3607 nos. sapling planted over an area 3.6 hect.	Nil
8g	Survival rate	Not specified	91.22 %	As reported in AR 2022-23.
8h	Water sprinkling on roads to control airborne dust	Proposed.	Observed during the inspection of mine.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The general aesthetic beauty in and around mines area is staisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R Submitted upto Dec 2023 A.R. Submitted for the year 2022-23.	Timely submission.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mine Manager- Sh. Manish Bohra, Mining Engineer-Sh. Pankaj Sharma, Geologist-Jay Kumar Shukla	Found correct.	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered in Current O-C working- 66.82 Ha, Used for waste disposal 108.20 2 Ha, for buildings & roads- 12.864 Ha	Seems corrected.	Nil
9d	Scrutiny of Annual return on afforestation	Total 3607 number of trees planted during the year within lease area	Seems corrected	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No reject generation reported	No reject generated during the year.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM & Graded Stock- Nil	Seems corrected	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Production/ Ex Mine Price Reported- Rs. 99999.99 per tonne	Seems higher side.	Seems on higher side as this is new mine & production is very less during the year 2022-23. Cost of mining was Rs. 1054687.27 per tonne. (Cost is high as 19899480 tonne OB handled against 817.25 tonne of limestone production).
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets is Rs. 3786634583	Seems corrected	Nil
9k	Scrutiny of Annual return on mining machineries	Details given in AR.	Seems corrected	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
MCDR17	Rule 11(1)	15-JAN-24			

Date :

(D R GURJAR)

Indian Bureau of Mines