

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/NGR-13/LST-1

**Mine code :** 38RAJ20001

- (i) Name of the Inspecting : **G021** ) **D R GURJAR**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sh. Satish Kumar Rathode, Mining Engineer  
Official with  
Designation
- (iv) Date of Inspection : 27-FEB-23
- (v) Prev.inspection date : 09-NOV-21

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **GAGARANA**
- (b) **Registration NO.** : **IBM/7378/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : RAJASTHAN  
District : NAGAUUR  
Village : GAGARANA  
Taluka : MERTA CITY  
Post office : GAGARANA  
Pin Code : 341510  
FAX No. : 0744-2500178  
E-mail : mines@mangalamcement.com  
Phone : 07459-232237, 01590-230614
- (f) Police Station : Gotan
- (g) First opening date : 26-MAR-87
- (h) Weekly day of rest : MON
2. Address for : Mangalam Cement Ltd.  
correspondance : SUB-POST PFFICE - GAGRANA (PO: MERTA CITY)  
District- Nagaur.
3. (a) Lease Number : RAJ1487
- (b) Lease area : 200
- (c) Period of lease : 50
- (d) Date of Expiry : 21-OCT-32
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : MANGLAM CEMENTS LIMITED  
 ADITYA NAGER -326517 PO-  
 MORAK DISTT-KOTA KOTA  
 RAJASTHAN  
 Phone: )7459)44237,44262  
 FAX :

Owner : K. C. Jain  
 Mangalam Cement Ltd. P. O.  
 Adityanagar, Morak, Distt.  
 Kota KOTA RAJASTHAN  
 Phone:  
 FAX : 07459232156

Agent : Shri P.R. Chaudhary  
 Mangalam Cement Ltd. PO:  
 Adityanagar-Morak Distt.  
 Kota (Rajasthan) KOTA  
 RAJASTHAN  
 Phone: 07459-233146  
 FAX : 07459- 232156

## Mining Engineer

Name : Satish Ratod, Full Time  
 Qualification : B. E. Mining  
 Appointment/ : 21-FEB-14  
 Termination date

## Geologist

Name : Sudanshu Pandey, Full Time  
 Qualification : M Sc (geo)  
 Appointment/ : 20-MAR-17  
 Termination date

## Manager

Name : Gopal Prajapati  
 Qualification : Foreman Certificate Holder  
 Appointment/ : 20-JAN-12  
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	18-FEB-98
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	13-JAN-03
	:	Modif. approved Mining Scheme	06-JUL-05
	:	Mining Scheme rule 12 MCDR1988	02-FEB-07
	:	Mining Scheme rule 12 MCDR1988	19-JUL-13
	:	MP review under 17(1) MCR 2016	22-MAR-17
	:	MP review under 17(1) MCR 2016	27-DEC-21

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposal during the previous year 2020-21.	None during the previous year.	No backlog of previous year.
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during the year 2021-22.	None during the year 2021-22.	Current inspection has been carried out for modification of RMP, lessee has been asked to submitted entire lease area exploration proposal as per norms of MEMC Rules 2015 through scrutiny comments on MPAS portal.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal of Exploration Agency & expenditure during the year 2021-22.	None during the year 2021-22.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal on area to be explored to bring Geological axis in 1 or 2.	None during the year 2021-22.	Current inspection has been carried out for modification of RMP, lessee has been asked to submitted entire lease area exploration proposal as per norms of MEMC Rules 2015 through scrutiny comments on MPAS portal.
1e	Balance reserve as on 01/04/20	No proposal in this regard.	Balance reserves as on 1.04.2022 4.77109 million tonnes.	Nil

1f	General remarks of inspecting officers on geology, exploration etc	Current inspection has been carried out for modification of RMP, lessee has been asked to submitted entire lease area exploration proposal as per norms of MEMC Rules 2015 through scrutiny comments on MPAS portal.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development has been proposed in Block-A of lease area.	Development has been carried out in Block-A of lease area on proposed location.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches of OB & Mineral was proposed.	As per proposal	Nil
2c	Stripping ratio or ore to OB ratio	2021-22: 1:0.89	2021-22: 1:0.87	ROM to OB Ratio
2d	Quantity of topsoil generation in m3	During the year 2021-22 total 50 T top soil generation proposed.	No top soil generated during the year 2021-22.	Nil
2e	Quantity of overburden generation in m3	2021-22: 48612T	2021-22: 39700T	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development work is satisfactory.

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	Block-A,Pit-4	Block-A,Pit-4	Nil
3b	Quantity of ROM mineral production proposed	2021-22: 54505 T	2021-22: 45485 T	Nil
3c	Recovery of sailable/usable mineral from ROM production	2021-22: 50468 T	2021-22: 45485 T	Nil
3d	Quantity of mineral reject generation	2021-22: 4037T	2021-22: Nil	No mineral reject reported during the year.
3e	Grade of mineral rejects generation and threshold value declared.	Cao-30-33.51%, Mgo-2.4-11%	Not applicable as no mineral reject generated during the year.	Nil
3f	Quantity of sub grade mineral generation.	No proposal.	No sub-grade generation.	NIL.
3g	Grade of sub grade mineral generation	No proposal.	Not applicable as no sub-grade mineral generation.	NIL.
3h	Manual / Mechanised method adopted for segregating from ROM	Manual Hand sorting of Dolomitic and interstitial clay.	As per proposal	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	No beneficiation study carried out during the RY.	NIL.
3j	Provision of drilling and blasting in mineral benches	No proposal of drilling and blasting.	Mineral is being broken by Rock Breaker.	NIL.
3k	Provision of mining machineries in mineral benches	Rock Breaker, Excavator, dumper etc.	Rock Breaker, Excavator, dumper etc.	NIL.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	2 to 4 mts.	Height of the benches has been maintained as per proposal.	Nil

3m	Total area covered under excavation/pits	14.19 hectare at the end of the plan period i.e. 2021-22.	12.24 hectare at the end of the 2021-22.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	2021-22: 1:0.89	2021-22: 1:0.87	ROM to OB Ratio
3o	Total area put in use under different heads at the end of year	19.24 hectare at the end of 2021-22.	16.398 Hect. at the end of year 2021-22.	As per AR 2021-22.
3p	Production of ROM mineral during the last five year period as applicable	2017-18= 54753 T 2018-19=54627 T 2019-20=54634 T 2020-21=54734 T 2021-22= 54505 T 2022-23= 75018 T	2017-18= 280 T 2018-19=8140 T 2019-20=36737 T 2020-21=30629 T 2021-22=45485 T 2022-23=28592 T(up to Jan 2023)	Nil
3q	General remarks of inspecting officers on method of mining etc.	Opencast method of mining has been proposed.	Opencast method of mining is being practiced.	The open cast mechanized method has been adopted which is best suited to the type of deposit.

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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)	Separate dumping of OB & mineral reject. Soil is proposed to use for plantation.	Separate dumping of OB. No mineral reject & soil generation during RY.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Dumping of the waste proposed near pit 3 (western side). Mineral reject dumping was proposed near working Pit no. 4.	Dumping of the waste observed near pit 3 (western side) as per proposal. No MR generation during the RY	Nil

4c	Number of dumps within lease area and outside of lease area	One dump in Block-A. No proposal of waste dumping during RY in Block B & C. However, five waste dumps exist in in Block B & C.	One dump in Block-A, Five dumps in Block-B & C(unauthorized working).	Lessee has already informed to officials of the State Govt. for unauthorized working.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL (Block-A)	Outside UPL (Block-A)	NIL.
4e	Number of active and alive dumps.	One.	One.	Nil
4f	Number of dead dumps.	5 (Block B &C).	5 (Block B &C).	NIL.
4g	Number of dumps established.	No proposal.	Not applicable.	NIL.
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal during the RY.	Garland drain observed at necessary places.	NIL.
4i	Length of Retaining wall or garland drain all along dumps	No proposal.	No retaining wall construction during the RY.	Nil
4j	Number of settling ponds	No proposal.	Not applicable.	NIL.
4k	Specific comments of inspecting officer on waste dump management			No issue observed related to waste dumping.

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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 of backfilling during the RY.	Not applicable as no proposal.	NIL.
5b	Area under backfilling of mined out area	No area matured for backfilling.	Not applicable.	NIL.

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil proposed to use for plantation purpose.	No top soil has been generated during the RY.	No top soil patch encountered during RY.
5d	Total area fully reclaimed and rehabilitated	No proposal of full reclamation and rehabilitation	Not applicable.	No area matured for reclamation and rehabilitation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No area matured for reclamation and rehabilitation.

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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 report every year.	PMCP report for the year 2021-22 has been submitted.	PMCP report for the year 2021-22 submitted timely, however some discrepencies observed in submitted PMCP report hence violation of Rule 26(2) of MCDR 2017 issued vide letter dated 13.03.2023.
6b	Area available for rehabilitation (ha) .	No proposal	N/A	Nil
6c	afforestation done (ha).	Waste dump: 0.1 hect with 50 saplings and waste land: 0.2 hect with 200 saplings.	Total 150 nos. sapling planted in the year 2021-22. Area of plantation not reported correctly in submitted PMCP report.	Violation of Rule 11(1) of MCDR 2017 issued for shorfall in plantation and Violation of Rule 26(2) of MCDR 2017 issued vide letter dated 13.03.2023 for discrepencies in submitted PMCP report.



6d	No. of saplings planted during the year	250 nos.(50 nos. over waste dum+200 nos. over virgin area)	150 nos.	Violation of Rule 11(1) of MCDR 2017 issued for shorfall in plantation vide letter dated 13.03.2023.
6e	Cumulative no .of plants	No specific proposal given.	As per submitted PMCP report total 2900 nos.	Nil
6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	No proposal.	Approximety Rs. 10000	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal of backfilling.	Area not matured for backfilling.	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)Afforestation on on backfilled area	No proposal.	Not applicable.	NIL.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal.	Not applicable.	NIL.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No any other specific proposal.	Not applicable.	NIL.

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Total 200 number of saplings have been proposed to plant during the RY 2021-22.	Total 150 number of saplings have been planted in RY 2021-22.	Violation of Rule 11(1) of MCDR 2017 issued for shorfall in plantation vide letter dated 13.03.2023.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.2 hect.	Not reported correctly in submitted PMCP report.	Some discrepancies observed in submitted PMCP report hence violation of Rule 26(2) of MCDR 2017 issued vide letter dated 13.03.2023.
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)	Provision for monitoring of environment parameter has been given.	Environment monitoring is being carried out in core and buffer zone.	NIL.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Violation of Rule 11(1) of MCDR 2017 issued for shorfall in plantation and Violation of Rule 26(2) of MCDR 2017 issued vide letter dated 13.03.2023 for discrepancies in submitted PMCP report.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Sorting/separation of mineral reject & usable grade of limestone for captive cement plant.	All ROM mineral dispatched to captive cement plant.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	No sorting has been carried out in RY.	Nil

7c	Different grade of mineral sorted out at mines.	Sorting/separation of mineral reject & usable grade of limestone for captive cement plant.	No sorting has been carried out in RY, all ROM mineral dispatched to captive cement plant.	Nil
7d	Any beneficiation process at mines	No proposal	Not applicable	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue observed related to mineral conservation.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes proposal given.	No top soil generated during RY.	Nil
8b	Concurrent use or storage of topsoil	Top soil proposed to use for plantation purpose.	No top soil generated during RY.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal given for separate dumping of waste & mineral reject.	Separate dumping of waste at designated place has been carried out. No mineral reject generated.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Not applicable.	NIL.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	Not applicable.	NIL.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 2021-22 total 250 nos. sapling proposed.	During the year 2021-22 total 150 nos. sapling planted.	Violation of Rule 11(1) of MCDR 2017 issued for shorfall in plantation vide letter dated 13.03.2023.
8g	Survival rate	No proposal.	63%	As reported in AR 2021-22.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed to control airborne dust.	Water sprinkling observed.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The general aesthetic beauty of the mine is 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 return to be submitted to competent authority.	Monthly and annual returns have been submitted for the RY.	NIL.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information on Mining Engineer and geologist has been furnished.	Mining Engineer, Geologist and Manager has been appointed in the mine.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pits=12.24 ha Dumps=1.948 ha : 2.21 ha.	Information furnished on land use appears to be in order.	Nil

9d	Scrutiny of Annual return on afforestation	Inside Lease: 150 and Outside Lease: 100 nos.	During the year 2021-22 total 250 nos. sapling proposed within lease area whereas actual plantation has been carried out 150 nos. within lease area.	Violation of Rule 11(1) of MCDR 2017 issued for shorfall in plantation vide letter dated 13.03.2023.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject reported	Detail seems corrected.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No ROM & Grade wise stock reported in AR 2021-22.	Details seems corrected.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price & Cost of production- Rs. 268.60 per tonne	Seems corrected	Nil
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset has been furnished as 'NIL'.	Contractual work, hence, no fixed asset.	Nil
9k	Scrutiny of Annual return on mining machineries	Back Hoe, Tipper, Water tanker etc.	Correct details furnished.	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 11(1)	13-MAR-23			
MCDR17	Rule 26(2)	13-MAR-23			

**Date :****(D R GURJAR)**

Indian Bureau of Mines