

**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 : **P022** ) **PANKAJ KULSHRESTHA**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Gopal Prajapati, Mines Foreman  
Official with  
Designation
- (iv) Date of Inspection : 08/12/2023
- (v) Prev.inspection date : 27/02/2023

**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 : 26/03/1987
- (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 : 21/10/2032
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/ : 21/02/2014  
 Termination date

## Geologist

Name : Sudanshu Pandey, Full Time  
 Qualification : M Sc (geo)  
 Appointment/ : 20/03/2017  
 Termination date

## Manager

Name : Gopal Prajapati  
 Qualification : Foreman Certificate Holder  
 Appointment/ : 20/01/2012  
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	18/02/1998
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	13/01/2003
		Modif. approved Mining Scheme	06/07/2005
		Mining Scheme rule 12 MCDR1988	02/02/2007
		Mining Scheme rule 12 MCDR1988	19/07/2013
		MP review under 17(1) MCR 2016	22/03/2017
		MP review under 17(1) MCR 2016	27/12/2021
		MP review under 17(1) MCR 2016	24/04/2023

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	9 hole (128 mtr)	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	Proved =1.276582 MT Probable=3.4196 MT Total=4.696182 MT	Proved= 1.319276 MT Probable= 3.4196 MT Total = 4.738876 MT	
1f	General remarks of inspecting officers on geology, exploration etc	NA	The current status of geology and exploration may be considered as satisfactory.	Some core logs observed laying here and there near mine office. The accompanying mine official was advised to secure all core logs properly.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Block A E73d50'57"- 73d51'04" N26d34'23"- 26d34'28"	Block- A E 73d50'57"- 73d51'04" N 26d34'23"-26d34'28"	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1:1.02	1:0.90	

2d	Quantity of topsoil generation in m3	Nil	Nil	Top soil observed in the lease area at some places, which is to be stored for further use.
2e	Quantity of overburden generation in m3	76539 T	28812 T	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	The overall status of development of pit w.r.t. type of deposit may be considered as satisfactory.	

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit in Block-A, Pit No.-4	One pit in Block-A, Pit No.-4	
3b	Quantity of ROM mineral production proposed	75018 T	32324 T	
3c	Recovery of sailable/usable mineral from ROM production	100% recovery	100% recovery	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	Not applicable	
3f	Quantity of sub grade mineral generation.	Nil	Not applicable	
3g	Grade of sub grade mineral generation	NA	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual hand sorting of Dolomitic material	Manual hand sorting of Dolomitic material	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Not applicable
3j	Provision of drilling and blasting in mineral benches	No such provision	Breaking of limestone by rock breaker cum excavator.
3k	Provision of mining machineries in mineral benches	Yes	Yes
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 6 m max height.	Yes, but at some places bench geomatry is not as per proposal.
3m	Total area covered under excavation/pits	12.34 ha	12.34 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:1.02	1:0.90
3o	Total area put in use under different heads at the end of year	Pit area - 12.34 ha Waste Dump- 2.12 ha Roads- 2.21 ha Plantation- 3.6 ha	Pit area- 12.24 ha Waste dump- 2.10 ha Roads 2.21 ha Plantation 3.195 ha
3p	Production of ROM mineral during the last five year period as applicable	2017-18 : 50698 T 2018-19 : 50117 T 2019-20 : 50573 T 2020-21 : 50680 T 2021-22 : 50468 T 2022-23 : 75018 T	2017-18 : 280T 2018-19 : 8140 T 2019-20 : 36737 T 2020-21 30629 T 2021-22 : 45485 T 2022-23 : 32324 T

3q	General remarks of inspecting officers on method of mining etc.	NA	At present the mine is temporarily discontinued. There was no mining activity as on date of inspection. The method of mining as reported may be considered as satisfactory. But the production raised during last six years is not as per proposal. It is much lower than the targeted production.
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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 O/B	Separate dumping of O/B	
4b	Location of topsoil, OB and mineral reject dumps	N50-150,E550-600 (OB)	N150-200, E400-550 (OB)	
4c	Number of dumps within lease area and outside of lease area	One dump in block A	One dump in block A	Five dumps in block -B (unauthorised working & non-surface right area) within the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Partially in side and out side UPL in Block -A	Partially in side and out side UPL in Block -A	
4e	Number of active and alive dumps.	One dump	One dump	
4f	Number of dead dumps.	Nil	Not applicable	
4g	Number of dumps established.	Nil	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall : 30 meter Garland drain : 70 meter	Retaining wall : 30 meter Garland drain : 70 meter	

4j	Number of settling ponds	Nil	Not applicable
4k	Specific comments of inspecting officer on waste dump management	NA	No mining activity observed during the inspection. But the overall status of waste dump management may be considered as satisfactory.

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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.	NA	Not applicable	
5b	Area under backfilling of mined out area	NA	Not applicable as the mineral remain in floor of pit.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	The area is not matured for back filling and reclamation. Mineral not excavated to last limit in depth.	

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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).	Yes, as per rule	Yes, submitted	

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6b	Area available for rehabilitation (ha) .	Nil	Not applicable
6c	afforestation done (ha).	0.15 ha	0.15 ha
6d	No. of saplings planted during the year	150 Nos.	150 Nos.
6e	Cumulative no .of plants	3150 Nos.	Existing plantation as on date is aprox. 3000 Nos.
6f	Any other method of rehabilitation	NA	Not applicable
6g	Cost incurred on watch and care during the year	Rs. 50,000	Rs. 50,000 as reported .
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NA	Not applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NA	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	Not applicable



6m	Compliance of rehabilitation of waste land within lease (i)afforestation	100 saplolings over 0.1 hectare of area.	100 saplolings over 0.1 hectare of area.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes, as per provisionso f EC and Consent to operate	Yes, but at present the mine is temp. discontinued.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	At present the mine working is temporarily discontinued. However the overall status of PMCP complicane and progressive closure operations may be considered as satisfactory.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	75018 T during the year 2022-23	Total 32324 tonnes during the year 2022-23.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Cement grade	Cement grade Limestone	
7d	Any beneficiation process at mines	NA	Not applicable	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The mine is temp. discontinued. Therefore no such issue observed at present.	The representative of lessee informed about illegal/ un-authorized mining within the lease area.
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Top soil observed in patches at some places which should be stacked separately with all due care.It should be utilised in plantation program.	
8b	Concurrent use or storage of topsoil	Nil	No mining activity observed during the inspection. However the top soil whenever encountered, should be stacked separately for concurrent utilisation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	76539 Tonnes during the year 2022-23	28812 T during the year 2022-23	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Not applicable	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation of 250 saplings per year over 0.25 hectare of lease area.	Aprox. 3000 saplings over 0.25 hectare of lease area out of which 250 saplings planted during the previous year.
8g	Survival rate	80%	80%
8h	Water sprinkling on roads to control airborne dust	Yes	No such activity observed during the inspection as the mine is temp. discontinued.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	The overall status of aesthetic beauty in and around the mines area may be considered as satisfactory.

#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per rule	Yes, submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager : Shri Gopal Prajapati Mining Engineer in charge: Shri Satish Rathore Geologist : Shri Sudhanshu Pandey	Manager : Shri Gopal Prajapati Mining Engineer in charge: Shri Satish Rathore Geologist : Shri Sudhanshu Pandey	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings : 12.34 ha Used for waste disposal : 2.1 ha Occupied by roads : 2.210 ha	Covered under current (O-C) Workings : 12.34 ha Used for waste disposal : 2.1 ha Occupied by roads : 2.210 ha	
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year : 250 (Within ML) with survival rate 68%	Number of trees planted during the year : 250 (Within ML)	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No reject generation	No reject generation during the year 2022-23
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM : 32323.79 t of cement grade during the year 2022-23.	ROM : 32323.79 t of cement grade during the year 2022-23.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Captive mines	Captive mines
9h	Scrutiny of Annual return on fixed assets	No information furnished.	No information furnished.
9k	Scrutiny of Annual return on mining machineries	Back Hoe :1 Tipper : 1 Water Tanker : 1 Other : 1	No mining machinery observed as the mine is temp. closed.

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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)	12/04/2024	02/05/2024				
MCDR17	Rule 48	12/04/2024	02/05/2024				

**Date :**

(PANKAJ KULSHRESTHA)

Indian Bureau of Mines