

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/NGR-38RAJ20008

**Mine code :** 38RAJ20008

- (i) Name of the Inspecting : **G021** ) **D R GURJAR**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompaning mine : Sh. Jitendra Prasad Kumawat, Mines Manager & Sh. Mayu  
Official with  
Designation
- (iv) Date of Inspection : 03-OCT-24
- (v) Prev.inspection date : 06-NOV-17

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **MARWAR MUNDWA ML-I**
- (b) **Registration NO.** : **IBM/447/2011**
- (c) Category : A Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : NAGAUUR
- Village : RUPASAR INANA MUNDWA
- Taluka : MUNDWA
- Post office : MUNDWA
- Pin Code : 341026
- FAX No. : 7227931265
- E-mail : jitendraprasad.kumawat@ada
- Phone : 7227931265
- (f) Police Station : Mundwa
- (g) First opening date : 21-SEP-88
- (h) Weekly day of rest : SUN
2. Address for : M/S Ambuja Cement Ltd.  
correspondance  
Post & Tehsil- Marwar Mundwa  
Disstt. - Nagaur (Rajasthan)-341026
3. (a) Lease Number : RAJ5233
- (b) Lease area : 699.9
- (c) Period of lease : 50
- (d) Date of Expiry : 05-SEP-61
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : AMBUJA CEMENT  
 VILL- RABRIYAWAS PO.-  
 JAITARAN DIST- PALI PALI  
 RAJASTHAN  
 Phone:02939-3011, 3012  
 FAX :3717879, 01462-20917

Owner : Shri Ajay Kapoor  
 Elegant Business Park, ,  
 MIDC Cross Road 'B' Andheri  
 (East), Mumbai MUMBAI  
 (SUBURBAN) MAHARASHTRA  
 Phone: 07662-229212  
 FAX : 07662-229212

Agent : AMBUJA CEMENT  
 RABARIYAWAS JETARAN, PALI  
 PALI RAJASTHAN  
 Phone:  
 FAX :

## Mining Engineer

Name : Hemant Panwar, Full Time  
 Qualification : BE Mining  
 Appointment/ : 21-MAR-23  
 Termination date

## Geologist

Name : Mayur Bhalchandra Potkatore, Full Time  
 Qualification : M.Sc (Applied Geology)  
 Appointment/ : 14-SEP-19  
 Termination date

## Manager

Name : Jitendra Prasad Kumawat  
 Qualification : BE Mining & FCC  
 Appointment/ : 23-AUG-24  
 Termination date

6. Date of approval of Mining	:	MP modif under 17(3) MCR 2016	26-SEP-16
Plan/Scheme of Mining	:	MP review under 17(1) MCR 2016	27-DEC-17

## 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 2022-23.	None during the previous year 2022-23.	Nil
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposal during the year 2023-24.	None during the year 2023-24.	Total lease area 699.9 hect. Mineralised area: 522 hect. area & Non Mineralised area: 177.9 hect. area. Entire mineralised area has already been explored under G1 level.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal during the year 2023-24.	None	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal during the year 2023-24.	None	Total lease area 699.9 hect. Mineralised area: 522 hect. area & Non Mineralised area: 177.9 hect. area. Entire mineralised area has already been explored under G1 level.
1e	Balance reserve as on 01/04/20	No specific proposal given in this regard.	The position of reserve & resources as on 01.04.2024 is: Reserve: 127.01 million tonnes, Resources: 29.19 million tonnes.	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	During the year 2023-24, mine development was proposed between grid 386051E to 386816E & 2997667N to 2998090N.	During the year actual mine development has been carried out between UTM grid 386051E to 387000E & 2997667N to 2998700N.	It shows that mine development has been extended towards Eastern & Northern side of existing pit without proposal, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 11.11.2024.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in mineral was proposed having 6m height. No separate benches proposed in top soil & OB.	Separate benches of mineral having 6m height was observed. No separate benches in top soil & OB.	Nil
2c	Stripping ratio or ore to OB ratio	Year 2023-24: 10.0018:1 (ton:cum)	Year 2023-24: 22.17:1 (ton:cum)	During the year 2023-24, the Ore to OB ratio was proposed 10.0018(T/m3) whereas actual Ore to OB ratio was achieved 22.17 (T/m3) it shows that proportionate mine development has not been carried out as per proposal, hence violation of rule 11(1) of MCDR 2017 issued vide letter dated 11.11.2024.
2d	Quantity of topsoil generation in m3	2023-24: 54252 cum	2023-24:Nil	During the year 2023-24, total 54252 m3 top soil generation was proposed whereas no top soil generated during the reporting year, it shows that no proper assessment of top soil generation has been carried out, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 11.11.2024.

2e	Quantity of overburden generation in m3	2023-24: 349920 cum	2023-24: 135312 cum	Waste generated in form of interburden. Less IB generated with respect to proposal, violation already issued for deviation in Ore to OB ratio.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			During the reporting year 2023-24 for deviation in mine development location, ore to OB ratio & top soil generation, violation of Rule 11(1) of MCDR 2017 issued vide letter dated 11.11.2024.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	Nil
3b	Quantity of ROM mineral production proposed	2023-24: 3499820 tons	2023-24: 2999961.75 tons	Nil
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Nil
3d	Quantity of mineral reject generation	No proposal	Not applicable	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No mineral reject generation proposal	Not applicable	Nil
3f	Quantity of sub grade mineral generation.	No mineral subgrade generation proposal	No subgrade generated during the reporting year.	Nil
3g	Grade of sub grade mineral generation	No mineral subgrade generation proposal	Not generated during the reporting year, hence not applicable.	Nil

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	Drilling & blasting proposed.	Drilling & blasting has been carried out as per proposal	Nil.
3k	Provision of mining machineries in mineral benches	Excavation & transportation proposed by shovel and dumper.	As per proposal	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height proposed not more than 6 meter.	6 meter bench height maintained	Nil
3m	Total area covered under excavation/pits	Up to year 2023-24 total 74.43 hect. area proposed.	Total 81.76 hect. area used at the end of year 2023-24.	The area put to use under head mining was proposed 74.43 hectare at the end of year 2023-24 whereas as per submitted annual return the area put to use under head mining is 81.76 hect, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 11.11.2024.
3n	Ore to OB ratio for the pit/mine during the year.	Year 2023-24: 10.0018:1 (ton:cum)	Year 2023-24: 22.17:1 (ton:cum)	During the year 2023-24, the Ore to OB ratio was proposed 10.0018(T/m3) whereas actual Ore to OB ratio was achieved 22.17 (T/m3) it shows that proportionate mine development has not been carried out as per proposal, hence violation of rule 11(1) of MCDR 2017 issued vide letter dated 11.11.2024.

3o	Total area put in use under different heads at the end of year	Total area put to use proposal- 110.15 hect. (At the end of year 2023-24)	Total area put to use - 108.984 hect. (At the end of year 2023-24)	Nil
3p	Production of ROM mineral during the last five year period as applicable	2019-20: 0.05 mt 2020-21: 1.00 mt 2021-22: 2.00 mt 2022-23: 3.50 mt 2023-24: 3.50 mt 2024-25: 3.50 mt	2019-20: Nil 2020-21: 0.0233 mt 2021-22: 1.99 mt 2022-23: 2.99 mt 2023-24: 3.0 mt 2024-25: 2.34 mt( up to Sept 2024)	mt-Million Tonnes
3q	General remarks of inspecting officers on method of mining etc.			During the reporting year for more area put to use under mining with respect to proposal & deviation on Ore to OB ratio, violation of Rule 11(1) of MCDR 2017 issued vide letter dated 11.11.2024.

## 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 dumping. OB/IB dumping was proposed.	No top soil stacking was observed. OB/IB dumping was observed.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Waste dumping was proposed between Latitude (dd:mm:ss) 27° 6'9.66"N to 27° 6'20.18"N & Longitude (dd:mm:ss.ss) 73°50'48.17"E to 73°50'55.42"E	Waste dumping between Latitude (dd:mm:ss) 27° 6'11.41"N to 27° 6'18.47"N Longitude (dd:mm:ss.ss) 73°50'49.25"E to 73°50'54.01"E	Waste dumping within proposed limit.

4c	Number of dumps within lease area and outside of lease area	01 Waste Dump(OB/IB).	01 Waste Dump(OB/IB).	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump proposed outside UPL	Dump is outside UPL	Nil
4e	Number of active and alive dumps.	01	01	Nil
4f	Number of dead dumps.	Nil	Nil	No dead/ inactive dump.
4g	Number of dumps established.	No proposal	Not applicable	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	During the year 2023-24 retaining wall & garland drain proposed.	During the year 2023-24 retaining wall & garland drain made.	Nil
4i	Length of Retaining wall or garland drain all along dumps	During the year 2023-24: Garland drain & retaining wall proposed- 350m	During the year 2023-24: Garland drain & retaining wall reported- 350m	However during the year 2023-24 the location of retaining wall changed with respect to proposal, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 11.11.2024.
4j	Number of settling ponds	No proposal	None	Nil
4k	Specific comments of inspecting officer on waste dump management			During the year 2023-24 the location of retaining wall changed with respect to proposal, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 11.11.2024.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal of backfilling during the RY 2023-24.	Not applicable	Nil
5b	Area under backfilling of mined out area	No proposal of backfilling during the RY 2023-24.	Not applicable	Area not matured for backfilling.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Cuncurrent use of top soil for plantation was proposed. No proposal for restoration or rehabilitation of mineral out area.	No top soil generated during the RY.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal during the RY 2023-24.	None during the RY 2023-24.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Neither backfilllling & reclamation proposed during the reporting year nor carried out.

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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 MCDR 2017, PMCP report shall be submitted before 1st July for previous financial year.	PMCP report for the year 2023-24 submitted along with annual return on 04.06.2024.	Timely submission of PMCP report for the RY 2023-24.
6b	Area available for rehabilitation (ha) .	No proposal	Not applicable	Nil
6c	afforestation done (ha).	1.0 hect.	1.0 hect.	Nil
6d	No. of saplings planted during the year	1000 nos.	1000 nos.	Nil

6e	Cumulative no .of plants	No specific proposal given	9000 nos.	Up to year 2023-24.
6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	Rs. 100000	Rs. 100000	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)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 proposal	Not applicable	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	During The RY plantation was proposed over 1.0 hect.	During The RY plantation carried out over 1.0 hect.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Not applicable	Nil

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Not applicable	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring was proposed.	Environmental monitoring is being carried out in core zone & buffer zone as per EC & CTO norms.	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	No sorting proposed entire ROM limestone mineral proposed to dispatch in captive cement plant after crushing.	Entire ROM limestone mineral dispatched in captive cement plant for cement manufacturing after crushing.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Not applicable	Nil
7c	Different grade of mineral sorted out at mines.	No proposal	Not applicable	Nil
7d	Any beneficiation process at mines .	No proposal	None	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue observed related to mineral conservation. Entire ROM limestone mineral dispatched to captice cement plant after crushing.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposal of cuncurrent top soil utilisation given.	No top soil generated during the RY.	During the year 2023-24, total 54252 m3 top soil generation was proposed whereas no top soil generated during the reporting year, it shows that no proper assessment of top soil generation has been carried out, hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 11.11.2024.
8b	Concurrent use or storage of topsoil	Cucurrent use for plantation was proposed.	No top soil generated during the RY.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of waste rock(OB/IB) was proposed.	Separate dumping og waste rock(OB/IB) has been carried out as per proposal	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 given during the reporting year 2023-24.	None during the RY.	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During 2023-24 total 1000 nos of plantation proposed over an area 1.0 hect.	During 2023-24 total 1000 nos of sapling planted over an area 1.0 hect.	Nil
8g	Survival rate	70%	70%	As per AR 2023-24.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling was proposed.	Water sprinkling was observed during the inspection.	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.
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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 return shall be submitted before 10th of next month & annual return shall be submitted before 1st July.	Annual return for the year 2023-24 & monthly return up to Sept. 2024 submitted.	Timely submission of monthly & annual return.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given in AR 2023-24: Mine Manager :Lokesh Shrimali Mining Engineer: Hemant Panwar Geologist: Mayur Potkatare	Details corrected	AR 2023-24.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pits: 81.76 ha Plants, building & roads: 19.73 ha Waste disposal: 5.861 Ha Plantation: 3.0 ha	Seems corrected	AR 2023-24.
9d	Scrutiny of Annual return on afforestation	1000 nos. reported within lease area. Cummulative 9000 nos.	Seems corrected	AR 2023-24.

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9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No reject reported in AR 2023-24.	No reject observed	AR 2023-24.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Details given in AR 2023-24. ROM Stock- Nil, Cement Grade Stock-30246 tonne	Seems corrected.	AR 20
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	AR 2023-24: Ex- mine price & cost of production per tonne: 196.55 Rs/Ton	It is captive mine, Details seems corrected	AR 2023-24.
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset reported : Rs 2271218935	Seems corrected	AR 2023-24.
9k	Scrutiny of Annual return on mining machineries	machineries details given in AR 2023-24.	Seems corrected	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)	03-OCT-24			

**Date :**

**(D R GURJAR)**

Indian Bureau of Mines