

**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 : **P022** ) **PANKAJ KULSHRESTHA**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Mayur B Potkatara, Geologist  
Official with  
Designation
- (iv) Date of Inspection : 07/12/2023
- (v) Prev.inspection date : 21/09/2022

**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. : 022-40667711  
E-mail : vijay.kumar@ambujacement.co  
Phone : 022-66167268
- (f) Police Station : Mundwa
- (g) First opening date : 21/09/1988
- (h) Weekly day of rest : SUN
2. Address for : M/S Ambuja Cement Ltd.  
correspondance : Post & Tehsil Marwar Mundwa,  
District: Nagaur (Rajasthan)-341 026.
3. (a) Lease Number : RAJ5233
- (b) Lease area : 699.88
- (c) Period of lease : 50
- (d) Date of Expiry : 20/09/2038
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 : AMBUJA CEMENT  
 RABARIYAWAS JETARAN, PALI  
 PALI RAJASTHAN  
 Phone:  
 FAX :

Agent : Shri. Hamendra Singh Rathore  
 Post & Tehsil Marwar Mundwa  
 District: Nagaur (Raj) PIN:  
 341026 NAGOUR RAJASTHAN  
 Phone: 7625060320  
 FAX :

## Mining Engineer

Name : Shri. Ravi Bhushan Singh, Full Time  
 Qualification : BE Mining  
 Appointment/ : 14/08/2021  
 Termination date

## Geologist

Name : Shri. Mayur Bhalchandra Potkatore, Full T  
 Qualification : M.Sc. Geology  
 Appointment/ : 14/09/2019  
 Termination date

## Manager

Name : Shri. Lokesh Shrimali  
 Qualification : BE Mining  
 Appointment/ : 12/08/2021  
 Termination date

6. Date of approval of Mining	:	MP modif under 17(3) MCR 2016	26/09/2016
Plan/Scheme of Mining	:	MP review under 17(1) MCR 2016	27/12/2017
	:	MP modif under 17(3) MCR 2016	21/06/2022
	:	MP review under 17(1) MCR 2016	22/12/2022

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	14 DTH holes	14 DTH holes	Total 76 drilled in 2021-22 And 7 DTH holes in 2022-23
1b	Exploration over lease area for geological axis 1 or 2	G1- 699.90 Ha.	G1- 699.90 Ha.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Geotech Exploration	Geotech Exploration	Work order awarded to Geotech-Exploration Nagpur & Shree Balaji Enterprises, Kherwad to complete Backlog of previous years.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Entire area in the G1 axis as on date
1e	Balance reserve as on 01/04/20	132.57 Million T	132.57 Million T	
1f	General remarks of inspecting officers on geology, exploration etc	NA	The overall status of geology and exploration may be considered as satisfactory.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N 2997602-2998406 E 385482-386620	N 2997670-2998760 E 385845-386776	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	3 Mineral bench Bottom RL-328 m	3 Mineral bench Bottom RL-328 m	
2c	Stripping ratio or ore to OB ratio	1: 0.73	1:0.154	
2d	Quantity of topsoil generation in m3	67500 m3	NA	Violation letter has been issued in this regard.

2e	Quantity of overburden generation in m3	410340 m3	462265 m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	The present status of pit w.r.t type of deposit may be considered as satisfactory.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Three	Three	
3b	Quantity of ROM mineral production proposed	3504950 T durng the year 2022-23	2987642 T obtained during the year 2022-23	
3c	Recovery of sailable/usable mineral from ROM production	3504950 T during the year 2022-23	2987642 T during the year 2022-23	
3d	Quantity of mineral reject generation	1025850 T	1155662 T during the eyar 2022-23	
3e	Grade of mineral rejects generation and threshold value declared.	>5%MgO	>5%MgO	
3f	Quantity of sub grade mineral generation.	No proposal	No generation	
3g	Grade of sub grade mineral generation	No proposal	No generation	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	No generation	

3j	Provision of drilling and blasting in mineral benches	Drilling & blasting proposed in mineral benches	As per proposal	Drilling type Top hammer dia 4.5" and Solar prime & solar gel cartridge & Nonel technology explosive used in blasting
3k	Provision of mining machineries in mineral benches	Excavation & transportation proposed by excavators and dumper	Machineries deployed as per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height proposed as 6 meters	Bench geometry not maintained at some places.	A violation letter has been issued in this regard
3m	Total area covered under excavation/pits	65.3 Ha	59.93 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1: 0.73	1: 0.154	
3o	Total area put in use under different heads at the end of year	97.05 ha	87.94 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2018-19 : Nil 2019-20: Nil 2020-21: 1.00 Million T 2021-22: 2.00 Million T 2022-23 : 3.5 Million T	2018-19 : Nil 2019-20 : Nil 2020-21 : 23341.33 T 2021-22 : 1.99 Million Tonnes 2022-23 : 2.99 Million Tonnes	
3q	General remarks of inspecting officers on method of mining etc.	NA	The overall status of method of mining may be considered as satisfactory.	

## Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes, Separate dumping of OB/IB dumping proposed	OB/ IB dumped separately.	

4b	Location of topsoil, OB and mineral reject dumps	N 2998420- N2998804; E 385570-E385980	N 2998440-N2998704; E 3855694-E385980	
4c	Number of dumps within lease area and outside of lease area	One	One	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump proposed outside UPL	Dump is outside UPL	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	No dead dump.	No dead dump.	
4g	Number of dumps established.	No proposal	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes, proposed	No,	A violation letter has been issued in this regard.
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall-350 m & garland drain-465 m	Retaining wall 350 m & Garland drain prepared along dumps , length 465 meter	
4j	Number of settling ponds	No proposal	None	
4k	Specific comments of inspecting officer on waste dump management	NA	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.	No proposal	Not applicable	
5b	Area under backfilling of mined out area	No proposal	Not applicable	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	Top soil not stored separately for the purpose.
5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	May be considered as satisfactory

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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	Yes , submitted	
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	3.0 ha.	3.0 ha.	
6d	No. of saplings planted during the year	3000 Nos.	3000 Nos.	
6e	Cumulative no .of plants	6500 Nos.	8000 Nos.	
6f	Any other method of rehabilitation	No	Not applicable	
6g	Cost incurred on watch and care during the year	3.0 Lac.	3.0 lac during the year 2022-23.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal	No activity regarding reclamation and rehabilitation has been carried out during the year 2022-23	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	No activity regarding subject matter during 2022-23
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation 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	No such proposal	NA
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No such proposal	NA
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No such proposal	NA
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Environmental monitoring has been carried out as per proposal.



6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	The overall status of PMCP compliance 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	3504950 T for the year 2022-23	2987642 T during the year 2022-23	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No such proposal for grade wise sorting	Not applicable	
7c	Different grade of mineral sorted out at mines.	No such proposal	Not applicable	
7d	Any beneficiation process at mines	No such proposal	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The overall status of mineral conservation may be considered as satisfactory.	

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes, Separate removal of Soil is proposed.	No top soil geneartion reported.	A violation letter is being issued in this regard.
8b	Concurrent use or storage of topsoil	NA	No top soil generation reported durnig hte period further no concurent utilisation reported.	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal	Not applicable	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During 2022-23 total 3000 nos of plantation proposed in 3.00 ha.	During 2022-23: 3000 nos of sapling planted in 3.00 ha.	Survival rate 85%
8g	Survival rate	85%	85%	
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on haul roads and pit through water tankers	Yes, Water sprinkling is being done on haul roads .	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	The present status of aesthetic beauty in and around mines area may be considered as 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	Yes	Yes, submitted	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager :1 1)LokeshShrima li Mining Engineer: 1 HemantPanwar Geologist: 1 MayurPotkatare	As above
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pits: 59.93ha Plants, building & roads: 19.73 ha Plantation: 3.0ha	As above
9d	Scrutiny of Annual return on afforestation	No of trees planted during the year: 3000 in 3.00 ha	As above
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Opening stock: 30246.000 tonne ,Production : 2987642.680 Closing Stock : 30246.000	As above
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price : Rs. 220.40	Seems to be correct.

9h	Scrutiny of Annual return on fixed assets	Yes details furnished, As per AR 2022-23 total at the begning of the year : Rs. 1230401805, Additions during the Year :1152325118, Depreciation during the year : 71653019 with net closing worth/Estimated market value of Rs. 2311073904	Seems to be correct
9k	Scrutiny of Annual return on mining machineries	Dumper: 8nos Shovel: 2nos Dozer: 1 nos Motor grader: 1 no Rock drill: 1 no	Dumper: 8nos Shovel: 2nos Dozer: 1 nos Motor grader: 1 no Rock drill: 1 no

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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)	18/04/2024			

**Date :**

**(PANKAJ KULSHRESTHA)**

Indian Bureau of Mines