

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/NGR-38RAJ2009

Mine code : 38RAJ20009

- (i) Name of the Inspecting : **DJ03**) **DILIP JAIN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri. Jitendra Prasad Kumawat, Mine Manager and Shri.
Official with
Designation
- (iv) Date of Inspection : 05-SEP-24
- (v) Prev.inspection date : 23-DEC-16

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MARWAR MUNDWA ML-II**
- (b) **Registration NO.** : **IBM/447/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : NAGAUUR
- Village : KHERWAD RUPASAR
- Taluka : MUNDWA JAYAL
- Post office : MUNDWA
- Pin Code : 341026
- FAX No. : 02240667711
- E-mail : vijay.kumar@ambujacement.co
- Phone : 02266167268
- (f) Police Station :
- (g) First opening date : 05-MAY-07
- (h) Weekly day of rest : SUN
2. Address for : M/S Ambuja Cements Ltd.
correspondance : P.O. Mundwa, Tehsil Mundwa,
District Nagaur
3. (a) Lease Number : RAJ5232
- (b) Lease area : 635
- (c) Period of lease : 50
- (d) Date of Expiry : 20-SEP-38
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 Kapur
 Elegant Business Park, MIDC
 Cross Road 'B' Andheri
 (East), MUMBAI (SUBURBAN)
 MAHARASHTRA
 Phone:
 FAX :

Agent : Shri. Chetan Raval
 Post & Tehsil Marwar
 Mundwa, District: Nagaur
 (Rajasthan) NAGAU
 RAJASTHAN
 Phone:
 FAX :

Geologist
 Name : Shri. Partha Sarathi Maji, Full Time
 Qualification :
 Appointment/ : 01-SEP-21
 Termination date

Manager
 Name : Shri. Jitendra Prasad Kumawat
 Qualification : Be Mining
 Appointment/ : 20-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	29-NOV-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Total of 76 BHs with 4300 meters of drilling was proposed during previous year 2022-23.	Proposed 76 BHs with 2455 meters of drilling were drilled in the year 2021-22. During the previous year 2022-23, a total 07 BHs with 150 meters drilling was done.	Violation of rule 11(1) of MCDR, 2017 issued for shortfall in drilling meters vide letter dated 24/05/2023.
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during reporting year (RY) 2023-24.	No exploration during reporting year 2023-24.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Exploration proposed in 2023-24	No exploration conducted during 2023-24	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per approved MRMP dated 13/06/2023, no proposal of any area to brought under G1/G2.	As per approved MRMP dated 13/06/2023, entire potentially mineralized area explored under G1/G2.	20.48 Ha areas to be bring under Geological axis 1 from 2.
1e	Balance reserve as on 01/04/20	As per approved MRMP dated 13/06/2023, the position of reserve and resource as on 01/03/2023 was 144.87 and 13.40 million tons respectively.	The position of reserve and resource as on 01/04/2024 was 143.70 and 13.40 million tons respectively.	Nil
1f	General remarks of inspecting officers on geology, exploration etc			The rock formations of Marwar Mundwa and surrounding areas belong to the Marwar Super group. Proposal of 07 exploratory BHs have been given in the year 2024-25 to bring G2 area under G1.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Out of two pits (pit-1 and pit-2), the development of Pit-1 was proposed.	A pit has been development over non-approved area in NE direction of the existing Pit 1.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in location of development vide letter dated 14/10/2024.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of topsoil and Waste generation. Benches proposed in mineral (2 benches in mineral).	No benches in topsoil and overburden. 2 mineral benches developed.	Nil
2c	Stripping ratio or ore to OB ratio	1:0.0191 CuM/ tons	1:0.00 CuM/Ton	No waste generation during RY. Waste proposed to be generated in the form of intercalation, which was not generated.
2d	Quantity of topsoil generation in m3	No proposal.	No top soil generation during RY.	Nil
2e	Quantity of overburden generation in m3	38110 CuM	Nil	Waste proposed to be generated in the form of intercalation, which was not generated.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The development was proposed in extension of Pit-1, however, a pit has been development over non-approved area in NE direction of the existing Pit 1 for which Violation of rule 11(1) of MCDR, 2017 issued for deviation in location of development vide letter dated 14/10/2024.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One.	Two.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in location of development vide letter dated 14/10/2024.
3b	Quantity of ROM mineral production proposed	2000000 tons	1171878.55 tons	Violation of rule 11(1) of MCDR, 2017 issued less production against the target vide letter dated 14/10/2024.
3c	Recovery of sailable/usable mineral from ROM production	2000000 tons	1171878.55 tons	Violation of rule 11(1) of MCDR, 2017 issued less production against the target vide letter dated 14/10/2024.
3d	Quantity of mineral reject generation	No proposal of Mineral Reject generation.	No mineral reject generation during RY.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	No mineral reject generation during RY.	Nil
3f	Quantity of sub grade mineral generation.	No proposal of Sub-grade generation.	No Sub-grade generation.	Nil
3g	Grade of sub grade mineral generation	No proposal.	No Sub-grade generation.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Rom proposed to process in nearby lease area (ML-1) of company.	Entire ROM sent to crusher located in nearby lease area (ML-1) of company.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal.	Not applicable.	Nil
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting proposed in mineral benches (Spacing: 3.5 and Burden: 3)	Drilling and blasting as per proposal.	Nil

3k	Provision of mining machineries in mineral benches	Shovel and dumper combination.	Machineries deployed 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 to 12 meter.	Bench height maintained as per proposal.	No bench proposed in overburden.
3m	Total area covered under excavation/pits	8.62 Hectare.	5.43 Hectare.	Less area degradation due to less production even working on non approved area.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.0191 CuM/ tons	1:0.00 CuM/Ton	No waste generation during RY. Waste proposed to be generated in the form of intercalation, which was not generated.
3o	Total area put in use under different heads at the end of year	Total area: 14.70 hectare at the end of 2023-24.	Total area: 10.86 hectare at the end of 2023-24.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2019-20: 80000 2020-21: 500000 2021-22: 500000 2022-23: 1225665 2023-24: 2000000	2019-20: Nil 2020-21: 2581.33 2021-22: 124194.13 2022-23: 499596 2023-24: 1171878	All figures in Tons.

3q	General remarks of inspecting officers on method of mining etc.	Opencast method of mining was proposed and same is in practice which is best suitable to the type of deposit. However, an additional area has been development and production is also not achieved as per approved plan for which violation of rule 11(1) of MCDR issued vide letter dated 14/10/2024.
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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)	No proposal of MR and top soil generation. Waste proposed to dump separately.	No waste, MR and top soil generation.	Nil
4b	Location of topsoil, OB and mineral reject dumps	Waste dumping WD-1: Latitude 27:06:10.07 to 27:06:13.12 and Longitude: 73:51:53.34 to 73:51:56.02.	No waste generation during RY, hence no waste dumping and not applicable.	Nil
4c	Number of dumps within lease area and outside of lease area	One waste dump (WD-1)	No waste generation during RY, hence no waste dumping and not applicable.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Not applicable as no waste generation during RY.	No waste dumps in the lease area.
4e	Number of active and alive dumps.	One	None.	Nil
4f	Number of dead dumps.	No proposal.	Not applicable.	Nil
4g	Number of dumps established.	No proposal.	Not applicable.	Nil

4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall & garland drain proposed around waste dump WD-1.	Retaining wall and garland drain not constructed.	Not constructed as no waste generation/dumping .
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall and garland drain of 340 meter each.	Not constructed as no waste generation/dumping.	Nil
4j	Number of settling ponds	No proposal.	Not applicable.	Nil
4k	Specific comments of inspecting officer on waste dump management			No issue related to waste dump management as no waste dump in lease area and no waste generation during RY.

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.	None of the area matured for the backfilling.	Nil
5b	Area under backfilling of mined out area	No proposal.	Not applicable.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of top soil generation.	No top soil generation during RY.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			None of the area matured for the backfilling.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	As per rule 26(2) of MCDR, 2017, PMCP report to be submitted for previous year by 1st July.	Annual PMCP report for reporting year i.e., 2023-24 was submitted,	Nil
6b	Area available for rehabilitation (ha) .	No proposal.	Not applicable.	Nil
6c	afforestation done (ha).	1.0 ha.	0.5 ha.	Violation of rule 11(1) of MCDR, 2017 issued for less area plantation vide letter dated 14/10/2024.
6d	No. of saplings planted during the year	1000 nos.	500 nos.	Violation of rule 11(1) of MCDR, 2017 issued for less number of plantation vide letter dated 14/10/2024.
6e	Cumulative no .of plants	Not specified.	3000 nos.	As on 31/03/2024.
6f	Any other method of rehabilitation	No proposal.	Not applicable.	Nil
6g	Cost incurred on watch and care during the year	No proposal.	Not applicable.	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	1000 nos.	500 nos.	Violation of rule 11(1) of MCDR, 2017 issued for less number of plantation vide letter dated 14/10/2024.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.0 ha.	0.5 ha.	Violation of rule 11(1) of MCDR, 2017 issued for less area plantation vide letter dated 14/10/2024.
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)	Environment monitoring is proposed.	Environmental monitoring has been carried out and on sample check parameter are found within limit.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The PMCP compliance was found unsatisfactory as area and numbers of plants planted during the RY are less than the proposal for which Violation of rule 11(1) of MCDR, 2017 issued vide letter dated 14/10/2024.

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch. No proposal for grade-wise sorting.	Entire ROM dispatches to the crusher located in ML-1 lease of the lessee. No grade wise sorting.	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.	Not applicable.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No issue related to mineral conservation as entire ROM is useable.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of top soil generation.	No top soil generation.	Nil
8b	Concurrent use or storage of topsoil	No proposal.	Not applicable.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	One OB/waste dump proposed.	Nil due to no OB/waste generation during RY.	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 2023-24 total 1000 nos of plantation proposed in 1.0 ha.	During 2023-24, total 500 nos of sapling planted in 0.5 ha.	Violation of rule 11(1) of MCDR, 2017 issued vide letter dated 14/10/2024.
8g	Survival rate	70%	70%	Nil
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling in haul roads to control air borne dust. .	Water sprinkling observed.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The aesthetic beauty in and around the mine is satisfactory.

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 shall be submitted to RCOM.	Monthly and annual return for the RY as per rule 45 of MCDR, 2017 has been submitted.	Show-cause notice issued under rule 45(7) for not furnishing the reserve (122) and proposed production figures correctly in annual return 2023-24 vide letter dated 14/10/2024.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information of Mining Engineer and Geologist is furnished.	Mining Engineer, Mine Manager and Geologist has been appointed.	Nil

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pits: 5.43 ha, Infrastructure : 5.08 ha, Mineral storage: 0.35 ha and PMCP area: 0.50 hs.	The information on land use furnished appears in order.	Nil
9d	Scrutiny of Annual return on afforestation	No of trees planted during the year: 500 in 0.50 ha	The information of plantation is found in order.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject generation reported as NIL	No mineral reject generation during RY.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: NIL and Graded stock: 3637.00 tons	Appears in order.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price and cost of production: Rs. 194.85 per ton.	The mine is captive mine and the information of Ex-mine price and cost of production furnished appears in order.	Nil
9h	Scrutiny of Annual return on fixed assets	Fixed asset value: Rs. 1479429585/-	Appears in order.	Nil
9k	Scrutiny of Annual return on mining machineries	Dumper, shower, rock drill etc.	The information of mining machinery furnished appears in order.	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)	14-OCT-24				
MCDR17 Rule 45(7)(a)	14-OCT-24				

Date :
(DILIP JAIN)

Indian Bureau of Mines