

**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 Lokesh Shrimali, GM Mines, Shri Partha Sarathi M  
Official with  
Designation
- (iv) Date of Inspection : 22-SEP-22
- (v) Prev.inspection date : 26-APR-22

**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. : 9437107204  
E-mail : hamendrasingh.rathore@ambu  
Phone : 9437107204
- (f) Police Station : Mundwa
- (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, Rajasthan 341026
3. (a) Lease Number : RAJ5232
- (b) Lease area : 635
- (c) Period of lease : 50
- (d) Date of Expiry : 04-MAY-57
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 : Neeraj Akhoury  
 Elegant Business Park,MIDC  
 Cross Road Boff Andheri  
 Kurla Road Mumbai Andheri  
 East,Maharashtra-400059  
 MUMBAI (SUBURBAN)  
 MAHARASHTRA  
 Phone:  
 FAX :

Agent : Hamendra Singh Rathore  
 Post-Mundwa Tehasil-Mundwa  
 District: Nagaur  
 (Rajasthan) NAGOUR  
 RAJASTHAN  
 Phone: 7625060320  
 FAX : 7625060320

## Mining Engineer

Name : Vinod chaudhry,Full Time  
 Qualification : B. E. (Mining Engg)  
 Appointment/ : 18-SEP-21  
 Termination date

## Geologist

Name : Partha Sarathi Maji,Full Time  
 Qualification : M.Sc (Geology)  
 Appointment/ : 01-SEP-21  
 Termination date

## Manager

Name : Lokesh Shrimali  
 Qualification : BE Mining  
 Appointment/ : 12-AUG-21  
 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
	:	MP review under 17(1) MCR 2016	12-NOV-21

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal of exploration during previous year 2020-21.	No proposal of exploration during previous year 2020-21.	NIL.
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during RY 2021-22.	A total of 76 exploratory BHs have been drilled.	NIL.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No specific proposal on Exploration Agency & Expenditure.	Geotech-Exploration Nagpur & Shree Balaji Enterprises, Kherwad. Expenditure: Rs.59,80,260	NIL.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No specific proposal on area to be explored under G1/G2.	An area of around 430 hectare explored under G1 level.	NIL.
1e	Balance reserve as on 01/04/20	Reserve: 49.29 Million Tones Resource: 109.58 million tones. (As on 01/09/2021)	Reserve: 49.165 Million Tones Resource: 109.58 million tones. (As on 31/03/2022)	Depletion of 0.125 million tons from Sept-21 to Mar-22.
1f	General remarks of inspecting officers on geology, exploration etc	No proposal of exploration during reporting year (RY) 2021-22.	A total of 76 exploratory BHs have been drilled.	Geologically the lease area is simple and the beds are generally sub-horizontal with gentle rolling dips.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1150-N1350 E1100-1500	N800-N950 E1100-1200	Violation of rule 11(1) of MCDR issued during previous inspection deviation in working location.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No benches proposed in topsoil & overburden, only mineral benches was proposed.	One mineral bench is developed.	NIL.
2c	Stripping ratio or ore to OB ratio	1:0.02 tons/tons	1:0.0 tons/tons	No OB/IB/waste generation
2d	Quantity of topsoil generation in m3	No proposal.	No generation.	NIL.
2e	Quantity of overburden generation in m3	10000 CuM of IB generation.	No generation.	NIL.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Opencast method of development was proposed.	Opencast method of development is in practice.	No issue relate to development.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One.	One.	NIL.
3b	Quantity of ROM mineral production proposed	500000.00 Tons.	125096.13 Tons.	NIL.
3c	Recovery of sailable/usable mineral from ROM production	500000.00 Tons.	125096.13 Tons.	NIL.
3d	Quantity of mineral reject generation	No proposal of MR generation.	No mineral reject generation during RY.	NIL.
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	Not applicable.	NIL.
3f	Quantity of sub grade mineral generation.	No proposal of sub-grade generation.	No sub-grade generation during RY.	NIL.
3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	NIL.

3h	Manual / Mechanised method adopted for segregating from ROM	No proposal of processing within lease area.	ROM is being crushed at crusher located in ML-1.	NIL.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal of any beneficiation.	Not applicable.	NIL.
3j	Provision of drilling and blasting in mineral benches	Drilling is proposed through 115 mm diameter drill.	No issue related to drilling and blasting.	NIL.
3k	Provision of mining machineries in mineral benches	Excavation & transportation proposed by 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 not more than 8 meter.	Bench height maintained as per proposal.	NIL.
3m	Total area covered under excavation/pits	5.12 hectare.	1.47 Hectare.	NIL.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.02 Ton/Ton	Nil.	No OB/Waste generation.
3o	Total area put in use under different heads at the end of year	Total area put in use is 13.42 Ha.	Total area put in use is 7.95 Ha.	NIL.
3p	Production of ROM mineral during the last five year period as applicable	2017-18:Nil 2018-19:Nil 2019-20:0.08 2020-21:0.50 2021-22:0.50	2017-18:Nil 2018-19:Nil 2019-20:Nil 2020-21:0.0025 2021-22:0.125	Figures in million tones.
3q	General remarks of inspecting officers on method of mining etc.	Opencast method of mining is proposed.	Opencast method of mining is in practice.	Opencast mechanized mining method has been adopted, which is best suited method for the type of the deposit.

## 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 for topsoil & mineral reject dumping. Only waste (IB) dumping proposed.	No waste dumping as IB not generated.	NIL.
4b	Location of topsoil, OB and mineral reject dumps	N1400-1500 E1600-1700	No waste dumping as no waste generation.	NIL.
4c	Number of dumps within lease area and outside of lease area	One.	NIL.	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL.	No waste dumping as no waste generation.	NIL.
4e	Number of active and alive dumps.	Two (Soil and waste).	Nil as no waste & soil generation during RY.	Soil dump was proposed in 2017-18 to 2018-19.
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.	No proposal.	Not applicable.	NIL.
4j	Number of settling ponds	No proposal.	Not applicable.	NIL.
4k	Specific comments of inspecting officer on waste dump management	One waste dump proposed during RY.	No waste dumping as no waste generation.	No waste dumping as no waste generation.

## 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 part or full extraction of mineral.	Not applicable.	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 during RY.	Not applicable.	NIL.
5d	Total area fully reclaimed and rehabilitated	No proposal.	Not applicable.	NIL.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal of part or full extraction of mineral.	Not applicable.	None of the area matured for backfilling.

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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 before 1st day of July every year.	PMCP report for the year 2021-22 has been submitted.	NIL.
6b	Area available for rehabilitation (ha) .	No proposal.	Not applicable.	NIL.
6c	afforestation done (ha) .	1.0 hectare.	1.0 hectare.	NIL.
6d	No. of saplings planted during the year	1000 numbers.	1000 numbers.	NIL.
6e	Cumulative no .of plants	5000 numbers. (2017-18 to 2021-22)	2500 numbers. (2020-21 to 2021-22)	NIL.
6f	Any other method of rehabilitation	No proposal of any other method of rehabilitation	Not applicable.	NIL.
6g	Cost incurred on watch and care during the year	2.2 lacs.	1.58 lacs.	NIL.

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6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal of backfilling.	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 numbers.	1000 numbers.	NIL.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.0 hectare.	1.0 hectare.	NIL.
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)	Monitoring of environment parameter.	Environmental monitoring has been carried out as per proposal.	NIL.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	An area of 1.0 hectare has been proposed for plantation with 1000 numbers of saplings.	An area of 1.0 hectare has been planted with 1000 number of saplings.	PMCP compliances are satisfactory.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal for grade-wise sorting.	No grade wise sorting.	NIL.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal for grade wise sorting.	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 of any beneficiation.	Not applicable.	NIL.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No proposal of any beneficiation.	Not applicable.	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.	Top soil has not been generated.	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 waste dump and one top soil dump.	Nil due to no IB and top soil generation.	Soil dump was proposed in 2017-18 to 2018-19.
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)	Total 1000 nos of plantation proposed in 1.0 ha.	1000 nos of sapling planted in 1.0 ha.	NIL.
8g	Survival rate	Not specified.	Around 85%.	As per AR 2021-22.
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling in haul roads and pit by water tankers.	Water sprinkling observed.	NIL.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Total 1000 nos of plantation proposed in 1.0 ha.	1000 nos of sapling planted in 1.0 ha.	The general aesthetic beauty is satisfactory in and around mine area.

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR, 2017 monthly and annual returns to be submitted.	Annual and Monthly returns for RY have been submitted.	NIL.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Lokesh Shrimali Mining Engineer: Vinod Choudhary Geologist: Partha Sarathi Maji	Manager: Lokesh Shrimali Mining Engineer: Vinod Choudhary Geologist: Partha Sarathi Maji	NIL.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Excavation: 1.47 hectare Infrastructure : 4.98 hectare Mineral Storage: 0.35 hectare	Found in order.	NIL.
9d	Scrutiny of Annual return on afforestation	1000 nos.	Found in order.	NIL.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL.	No mineral reject generation.	NIL.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock: NIL.	ROM Stock: NIL.	NIL.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production and Ex-mine price: Rs. 280.07 per ton.	Appears to be in order.	NIL.
9h	Scrutiny of Annual return on fixed assets	Fixed assest: Rs. 1319031216.00	Appears to be in order.	NIL.
9k	Scrutiny of Annual return on mining machineries	Dumper, Shovel, Rock drill etc.	Dumper, Shovel, Rock drill etc.	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

**Date :**

**(DILIP JAIN)**

Indian Bureau of Mines