

**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 : **DJ03**) **DILIP JAIN**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Lokesh Shrimali, Mine Manager, Shri Mayur Bhalch
Official with
Designation
- (iv) Date of Inspection : 21-SEP-22
- (v) Prev.inspection date : 27-APR-22

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-SEP-88
- (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-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 : 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-AUG-21
 Termination date

Geologist

Name : Shri. Mayur Bhalchandra Potkatore, Full T
 Qualification : M.Sc. Geology
 Appointment/ : 14-SEP-19
 Termination date

Manager

Name : Shri. 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	27-DEC-17
	:	MP modif under 17(3) MCR 2016	21-JUN-22

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal in 2020-21 (Total 42 BH proposed in the year 2018-19 and 2019-20)	21 Boreholes have been drilled in the year 2020-21.	Backlog of 21 BHs.
1b	Exploration over lease area for geological axis 1 or 2	No proposal for the year 2021-22 (Total 42 BH proposed in the year 2018-19 and 2019-20)	29 Boreholes have been drilled in the year 2021-22.	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.39,56,260	NIL.
1d	Balance area to be explored to bring Geological axis in 1 or 2	259.10 hectare area of G2 level proposed to convert under G1 level by above drilling programme.	Exploration carried out as per proposal.	NIL.
1e	Balance reserve as on 01/04/20	Reserve: 85.39 Million Tones Resource: 46.86 million tones. (As on 30/06/2017)	Reserve: 47.145 Million Tones Resource: 46.86 million tones. (As on 31/03/2022)	Depletion of 2.02 million tons from July-17 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 50 exploratory BHs have been drilled during 2020-21 to 2021-22.	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
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2a	Location of development w.r.t.lease area	N250- N700/E250-E850	N250-N1000/E200-E850	Violation of rule 11(1) of MCDR, 2017 has already been issued during previous inspection.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No benches proposed in topsoil & overburden, only mineral benches was proposed.	Two mineral benches are developed.	NIL.
2c	Stripping ratio or ore to OB ratio	1:0.06 Ton/Ton	1:0.30 Ton/Ton	Violation of rule 11(1) of MCDR, 2017 has already been issued during previous inspection.
2d	Quantity of topsoil generation in m3	138000	Nil.	NIL.
2e	Quantity of overburden generation in m3	122000 Tons or 48800 CuM	595670 Tons or 238268 CuM	Violation of rule 11(1) of MCDR, 2017 has already been issued during previous inspection for higher OB/IB generation.
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 method 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	2.00 Million Tons.	1.99 Million Tons.	NIL.
3c	Recovery of sailable/usable mineral from ROM production	2.00 Million Tons.	1.99 Million Tons.	NIL.
3d	Quantity of mineral reject generation	No proposal of MR generation.	Not applicable.	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 SG generation.	Not applicable.	NIL.
3g	Grade of sub grade mineral generation	No proposal.	Not applicable.	NIL.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised (crushing and screening).	Mechanised (crushing and screening).	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 10 meter.	Bench height maintained as per proposal.	NIL.
3m	Total area covered under excavation/pits	29.55 hectare at the end of 2022-23.	34.70 hectare at the end of the year 2021-22.	NIL.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.06 Ton/Ton	1:0.30 Ton/Ton	NIL.
3o	Total area put in use under different heads at the end of year	53.50 hectare at the end of 2022-23.	60.20 hectare at the end of the year 2021-22.	Violation of rule 11(1) of MCDR, 2017 has already been issued during previous inspection.

3p	Production of ROM mineral during the last five year period as applicable	2017-18:Nil 2018-19:Nil 2019-20:0.05 2020-21:1.00 2021-22:2.00	2017-18:Nil 2018-19:Nil 2019-20:Nil 2020-21: 0.023 2021-22: 1.99	All figures in million tons.
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.	Soil and MR not generated. Waste/IB dumped separately.	NIL.
4b	Location of topsoil, OB and mineral reject dumps	Soil and MR not generated. Waste/IB dumped separately.	Two OB dumps (near boundary pillar Y-2 and crusher). No soil dumps.	Violation of rule 11(1) of MCDR, 2017 issued during previous inspection for deviation in dumping location.
4c	Number of dumps within lease area and outside of lease area	One (OB) and One (Soil).	Two (OB) and no soil dump.	Violation of rule 11(1) of MCDR, 2017 issued during previous inspection for deviation in dumping location.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside of UPL.	Outside of UPL.	NIL.
4e	Number of active and alive dumps.	Two (OB and Soil)	Two (OB).	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.	No proposal.	Garland drain observed.	NIL.

4i	Length of Retaining wall or garland drain all along dumps	No proposal for reporting year.	Not applicable.	NIL.
4j	Number of settling ponds	No proposal for reporting year.	Not applicable.	NIL.
4k	Specific comments of inspecting officer on waste dump management	No proposal for topsoil & mineral reject dumping. Only waste (IB) dumping proposed.	Soil and MR not generated. Waste/IB dumped separately.	Dumping of the waste has not been carried out as per proposal. Violation of rule 11(1) of MCDR, 2017 issued during previous inspection.

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.

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 of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year.	PMCP report for the year 2021-22 is submitted.	NIL.
6b	Area available for rehabilitation (ha) .	No proposal.	Not applicable.	NIL.
6c	afforestation done (ha) .	2.0 hectare.	2.0 hectare.	NIL.
6d	No. of saplings planted during the year	3000 numbers.	3000 numbers.	NIL.
6e	Cumulative no .of plants	6500 numbers. (2018-19 to2021-22)	5000 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	No proposal.	4.74 lacs.	NIL.
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	3000 numbers.	3000 numbers.	NIL.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	2.0 hectare.	2.0 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 2.0 hectare has been proposed for plantation with 3000 numbers of saplings.	An area of 2.0 hectare has been planted with 3000 number of saplings.	NIL.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch: 2.00 Million Tons. No proposal for grade-wise sorting.	Actual ROM mineral dispatched: 1.99 Mio Tons. 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.	NIL.

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 generation.	NIL.
8b	Concurrent use or storage of topsoil	0.72 Lac. Cum is reuse & 0.66 Lac Cum. proposed to storage.	No top Soil generation.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	One (OB) and One (Soil).	Two (OB) and no soil dump.	Violation of rule 11(1) of MCDR, 2017 issued during previous inspection for deviation in dumping location.
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 3000 nos of plantation proposed in 2.0 ha.	3000 nos of sapling planted in 2.0 ha.	NIL.
8g	Survival rate	No proposal.	85%	NIL.
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 3000 nos of plantation proposed in 2.0 ha.	Total 3000 nos of sapling planted in 2.0 ha.	NIL.

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 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: Ravi Bhushan Singh Geologist: Mayur Bhalchandra Potkatore	Manager, Mining Engineer and Geologist have been appointed.	NIL.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Excavation: 34.70 hectare Infrastructure : 19.73 hectare Mineral Storage: 1.27 hectare Waste dumping: 4.65 hectare	The information on land use found in order.	NIL.
9d	Scrutiny of Annual return on afforestation	3820 nos. Within ML & 10120 nos. outside ML	The information on afforestation furnished in AR appears 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. Cement Grade Stock: 30246 tons	Found 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 285.10/tons.	The limestone produced being used for captive purpose. The information of Ex-mine price and cost of production found in order.	NIL.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in ?) 1230401805	The information on fixed asset appears in order.	NIL.
9k	Scrutiny of Annual return on mining machineries	Dumper, Shovel. Dozer, Motor Grader, Road Roller, Rock Drill, Explosive Van, Crusher, Wheel Loader etc.	Dumper, Shovel. Dozer, Motor Grader, Road Roller, Rock Drill, Explosive Van, Crusher, Wheel Loader etc.	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

Date :

(DILIP JAIN)

Indian Bureau of Mines