

**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, Mine Manager, Shri Partha Sarat
Official with
Designation
- (iv) Date of Inspection : 09-APR-23
- (v) Prev.inspection date : 22-SEP-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 : NAGAU
- 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 during previous year 2021-22.	Total of 76 Boreholes with 2455 meters of drilling was carried out during previous year 2021-22.	NIL
1b	Exploration over lease area for geological axis 1 or 2	Total of 76 BHs with 4300 meters of drilling was proposed during reporting year (RY) 2022-23.	Proposed BHs were completed during the year 2021-22. During the year 2021-22 a total of 76 BHs with 2455 meters of drilling was completed. During the year 2022-23, a total 07 BHs with 150 meters of drilling was completed.	Violation of rule 11(1) and 47 of MCDR, 2017 prepared for shortfall in drilling meters and non-submission of Form-I.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No specific proposal on exploration agency and expenditure.	Agency: 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 proposal to bring G3 level to G1/G2.	Not applicable. Entire mineralized area explored under G1 level.	NIL
1e	Balance reserve as on 01/04/20	The position of reserve and resource as on 01.03.2023 was 145.45 and 109.58 million tons respectively.	The position of reserve and resource as on 01.04.2023 was 145.45 and 109.58 million tons respectively.	NIL
1f	General remarks of inspecting officers on geology, exploration etc	Total of 76 BHs with 4300 meters of drilling was proposed during reporting year (RY) 2022-23.	Proposed BHs were completed during the year 2021-22. During the year 2021-22 a total of 76 BHs with 2455 meters of drilling was completed. During the year 2022-23, a total 07 BHs with 150 meters of drilling was completed.	Geologically the area is not complex and Limestone occurs near to surface with gentle dip of around 5 to 12 degree. Geologically area belongs to the Marwar Super group of rocks.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	N2997887- N2998253 and E386858- E387285	Development carried out within proposed limit.	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of topsoil and Waste generation. Benches proposed in mineral.	No top soil and waste generation during RY. Benches observed within proposed limit.	NIL
2c	Stripping ratio or ore to OB ratio	No proposal.	Not applicable.	No OB/Waste generation and proposal for RY.
2d	Quantity of topsoil generation in m3	No proposal of top soil generation.	No top soil was generated.	NIL
2e	Quantity of overburden generation in m3	No proposal of OB/Waste generation.	No OB/Waste was generated.	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development has been proposed through opencast method of mining.	Development is being carried out as per proposal.	No issue related to development. EC for enhance quantity 2.0 million tons is awaited.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two Pits. Production proposed form one pit namely Pit-1.	Two Pits. Production or one pit namely Pit-1.	NIL
3b	Quantity of ROM mineral production proposed	1225665 Tons.	499596 Tons.	Production achieved as per existing Environmental Clearance (EC) capacity of 0.5 MTPA.
3c	Recovery of sailable/usable mineral from ROM production	1225665 Tons.	499596 Tons.	Production achieved as per existing Environmental Clearance (EC) capacity of 0.5 MTPA.

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	No proposal.	Rom proposed to process 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 not more than 8 meter.	Bench height maintained as per proposal.	NIL
3m	Total area covered under excavation/pits	5.26 Hectare.	1.72 Hecatree.	Less area degradation due to less production.
3n	Ore to OB ratio for the pit/mine during the year.	No proposal.	NIL	No OB/Waste generation and proposal for RY.

3o	Total area put in use under different heads at the end of year	Total area put in use is 10.84 Hectare.	Total area put in use is 7.15 Hectare.	Less are due to less production.
3p	Production of ROM mineral during the last five year period as applicable	2017-18: Nil 2018-19: Nil 2019-20: 80000 2020-21: 500000 2021-22: 500000 2022-23: 1225665	2017-18: Nil 2018-19: Nil 2019-20: Nil 2020-21: 2581.33 2021-22: 124194.13 2022-23: 499596	All figures in Tons.
3q	General remarks of inspecting officers on method of mining etc.	Opencast method of mining was proposed.	Opencast method of mining is being practiced.	The method of Mining proposed is best suitable to the type of 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 of waste, MR and top soil generation.	No waste, MR and top soil generation.	NIL
4b	Location of topsoil, OB and mineral reject dumps	Not applicable as no proposal.	No waste, MR and top soil generation.	NIL
4c	Number of dumps within lease area and outside of lease area	No proposal.	No waste dumps in lease area.	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal.	Not applicable.	NIL
4e	Number of active and alive dumps.	No proposal.	Not applicable.	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.	Not applicable.	NIL

4i	Length of Retaining wall or garland drain all along dumps	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	No proposal of waste generation during RY.	Not applicable as no waste generation during RY.	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.	No proposal	None of the area matured for the backfilling.	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., 2022-23 is not yet due for submission.	NIL
6b	Area available for rehabilitation (ha) .	No proposal.	Not applicable.	NIL
6c	afforestation done (ha).	1 Hect.	NIL. Only gap filling plantation.	Violation of rule 11(1) of MCDR, 2017 prepared.
6d	No. of saplings planted during the year	1000 Saplings.	500 Saplings.	Violation of rule 11(1) of MCDR, 2017 prepared.
6e	Cumulative no .of plants	No specific proposal.	3000 Nos.	NIL
6f	Any other method of rehabilitation	No proposal.	Not applicable.	NIL
6g	Cost incurred on watch and care during the year	No proposal.	Rs. 0.90 Lacs	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 Saplings.	500 Saplings.	Violation of rule 11(1) of MCDR, 2017 prepared.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1 Hect.	NIL. Only gap filling plantation.	Violation of rule 11(1) of MCDR, 2017 prepared.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation.	Gap filling plantation.	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed.	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 with 1000 number of sapling was proposed to plant.	A 500 number of saplings were planted as a gap filling. No fresh area plantation.	Violation of rule 11(1) of MCDR, 2017 prepared for shortfall in plantation and area.

Mineral Conservation:

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.	Production achieved as per existing Environmental Clearance (EC) capacity of 0.5 MTPA.
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 specific proposal.	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.	Not applicable.	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)	No proposal.	Not applicable.	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.	None of the area matured for rehabilitation.	NIL

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation of 1000 nos of saplings in 1.0 hectare area.	A 500 number of saplings were planted as a gap filling. No fresh area plantation.	Violation of rule 11(1) of MCDR, 2017 prepared.
8g	Survival rate	Survival rate 70 %	Survival rate 70 %	NIL
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling in haul roads.	Water sprinkling observed.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation of 1000 nos of saplings in 1.0 hectare area.	A 500 number of saplings were planted as a gap filling. No fresh area plantation.	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, monthly and annual returns to be submitted.	Monthly returns have been submitted for the reporting year. Annual return is yet not due for submission.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Annual return is yet not due for submission.	Not applicable as annual return is yet not due for submission.	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Annual return is yet not due for submission.	Not applicable as annual return is yet not due for submission.	NIL
9d	Scrutiny of Annual return on afforestation	Annual return is yet not due for submission.	Not applicable as annual return is yet not due for submission.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Annual return is yet not due for submission.	Not applicable as annual return is yet not due for submission.	NIL

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Annual return is yet not due for submission.	Not applicable as annual return is yet not due for submission.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Annual return is yet not due for submission.	Not applicable as annual return is yet not due for submission.	NIL
9h	Scrutiny of Annual return on fixed assets	Annual return is yet not due for submission.	Not applicable as annual return is yet not due for submission.	NIL
9k	Scrutiny of Annual return on mining machineries	Annual return is yet not due for submission.	Not applicable as annual return is yet not due for submission.	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