

**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 : **P022**) **PANKAJ KULSHRESTHA**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Manoj Verma, Mines Manager , Shri Partha Sarathi Maji
Official with
Designation
- (iv) Date of Inspection : 07/12/2023
- (v) Prev.inspection date : 09/04/2023

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 : **NAGAUR**
- 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** : **05/05/2007**
- (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** : **04/05/2057**
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/ : 18/09/2021
 Termination date

Geologist

Name : Partha Sarathi Maji,Full Time
 Qualification : M.Sc (Geology)
 Appointment/ : 01/09/2021
 Termination date

Manager

Name : 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	29/11/2016
	:	MP review under 17(1) MCR 2016	12/11/2021

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	76 bore holes were proposed in the year 2022-23	Completed	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- 635 Ha.	G1- 635 Ha.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Geotech-Exploration Nagpur & Shree Balaji Enterprises, Kherwad Rs.59,80,260	Geotech-Exploration Nagpur & Shree Balaji Enterprises, Kherwad Rs.59,80,260	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	432.5 Ha. From G2 to G1	Now all area in the G1 axis	
1e	Balance reserve as on 01/04/20	145.45 Million Tons (111)	145.45 Million Tons (111)	
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	N2997887- N2998253 E386858- E387285	N2997911- N 2998150 E386879- E386984	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No benches proposed in topsoil & Overburden	NA	
2c	Stripping ratio or ore to OB ratio	NA	NA	No OB/IB generation reported
2d	Quantity of topsoil generation in m3	No proposal	No generation	

2e	Quantity of overburden generation in m3	No generation	No generation
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	The overall development of pit w.r.t type of deposit may be considered as satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Three	Two	
3b	Quantity of ROM mineral production proposed	1225665 T	499596 T	
3c	Recovery of sailable/usable mineral from ROM production	Entire ROM is usable	As above	
3d	Quantity of mineral reject generation	No proposal	No generation	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	No generation	
3f	Quantity of sub grade mineral generation.	NA	No generation	
3g	Grade of sub grade mineral generation	na	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.	NA	NA	

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 shovel 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 not more than 6 meter	6 meter bench height not maintained at some places .	A violation is under process
3m	Total area covered under excavation/pits	5.26 ha. proposed up to 2022-23	2.21 ha. Up to the year 2022-23	
3n	Ore to OB ratio for the pit/mine during the year.	NA	NA	
3o	Total area put in use under different heads at the end of year	Total area put in use is 10.34 Ha.	Total area put in use is 7.64Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2018-19 : Nil 2019-20 : 0.08 Mil Tons 2020-21 : 0.50 Mil Tons 2021-22 : 0.50 Million Tons 2022-23 : 1225665 Tons	2018-19 : Nil 2019-20 : Nil 2020-21 : 2581.33 T 2021-22 : 124194.13T 2022-23 : 499596 T	
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	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal	No generation	

4b	Location of topsoil, OB and mineral reject dumps	No proposal	No generation
4c	Number of dumps within lease area and outside of lease area	No proposal	No generation
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	No generation
4e	Number of active and alive dumps.	Nil	Not applicable
4f	Number of dead dumps.	No dead dump	No dead dum
4g	Number of dumps established.	NA	Not applicable
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Not applicable
4i	Length of Retaining wall or garland drain all along dumps	NA	Not applicable
4j	Number of settling ponds	NA	Not applicable
4k	Specific comments of inspecting officer on waste dump management	NA	The overall status of waste dump management may be considered as satisfactory.

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.	Part extraction of mineral	As above	
5b	Area under backfilling of mined out area	NA	Not applicable	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	Not applicable
5d	Total area fully reclaimed and rehabilitated	NA	Not applicable
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	May be considered as satisfactory.

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.	
6b	Area available for rehabilitation (ha) .	Nil	Not applicable	
6c	afforestation done (ha).	1.0 ha.	0.5 ha.	
6d	No. of saplings planted during the year	1000 Nos.	Total 500 saplings planted during the year 2022-23	
6e	Cumulative no .of plants	3500 Nos.	Total cummulative number of plants up to 2022-23 : 3000	
6f	Any other method of rehabilitation	NA	Not applicable	
6g	Cost incurred on watch and care during the year	Rs. 1.80Lacs	Rs. 1.80 Lacs	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	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	NA	No activity regarding reclamation and rehabilitation has been carried out during the year 2022-23
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NA	No activity regarding reclamation and rehabilitation has been carried out during the year 2022-23
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	No activity regarding reclamation and rehabilitation has been carried out during the year 2022-23
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	No activity regarding reclamation and rehabilitation has been carried out during the year 2022-23
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	No activity regarding subject matter during 2022-23
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	No activity regarding subject matter during 2022-23
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	No activity regarding subject matter during 2022-23
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 present 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	ROM mineral dispatch: 1225665 Tons No proposal for grade-wise sorting.	Actual ROM mineral dispatched: 499596Tons.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No such proposal	Not applicable	
7c	Different grade of mineral sorted out at mines.	NA	Not applicable	
7d	Any beneficiation process at mines	None	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The present 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)	No proposal	Not applicable	
8b	Concurrent use or storage of topsoil	NA	Not applicable	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	One OB/IB dump proposed.	Nil due to no non generation of the same
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	Not applicable
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	Not applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During 2022-23 total 1000 nos of plantation proposed in 1.0 ha.	During 2022-23: 500nos of sapling planted in 0.5 ha.
8g	Survival rate	Survival rate 70 %	As above
8h	Water sprinkling on roads to control airborne dust	Yes, Water Sprinkling in haul roads and pit by water tankers	Water sprinkling in haul roads has carried out
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	The overall status of aesthetic beauty in and around mines area may be considered as satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Yes as per rule	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Shri VinodChoudhary Geologist: Shri ParthaSarathi Maji	As above
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings : 1.72 ha. Occupied by plant, buildings, residential, welfare buildings and roads : 5.08 ha. Used for any other purpose (specify) : 0.35 ha(Mineral Storage)	Pits: 2.21ha Plants, building & roads: 5.08 Plantation: 3.0ha
9d	Scrutiny of Annual return on afforestation	No of trees planted during the year: 500 in 0.50 ha with survival rate 85%	No of trees planted during the year: 500 in 0.50 ha with survival rate 70-75%
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	As above
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock at mine head : 3337.0 T, Production during the year 2022-23 : 499796.670 T, Closing stock at the end of year 2022-23 : 3537.000 T	As above
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price (?-Tonne) : 225.61, Cost of production per tonne of ore-mineral produced : 225.61	Seems to be correct.

9h	Scrutiny of Annual return on fixed assets	At the beginning of the year 2022-23 : Rs. 1319031216, Additions during the Year 2022-23 :Rs. 189096739 Depreciation during the year : Rs. 13351132 and Net closing balance : Rs. 1494776823	The information furnished seems to be correct.
9k	Scrutiny of Annual return on mining machineries	Dumper: 3nos Shovel: 1 no Rock drill: 1 no	Dumper: 3nos Shovel: 1 no Rock drill: 1 no

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(PANKAJ KULSHRESTHA)

Indian Bureau of Mines