

MCDR INSPECTION REPORT 2021-22

General:

Sl .No.	Particulars	Details
1	Name of the Mine	Maldi Mopar Limestone Mine
2	Date of Inspection:	14.10.2022
3	Name of Inspecting Officer	Shri D.Upadhyay Indian Bureau of Mines, Raipur
4	Name of official accompanying inspection	
5	Last date of Inspection & Officer	28.07.2021& Shri Rudra P Mishra Indian Bureau of Mines, Raipur
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	553.656 Ha Govt. Waste Land- 53.682 Hec. Agriculture Land - 499.974 Hec.
7	Mine code	38CHG19003
8	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/447/2011
9	Name of the Lease, Address, Phone, email and fax number	Ambuja Cements Ltd.
10	Village	Maldi,Mopar,Devrani,Karmandih & Boirdih
11	Taluka/Mandal	Bhatapara
12	District	Baloda Bazar- Bhatapara
13	Pin code	493331
14	State	Chhattisgarh
15	Post Office	Rawan
16	Nearest Police Station	Baloda Bazar
17	Nearest Railway Station	Bhatapara
18	Date of Grant of Mining Lease	18/02/2009
19	Date of Execution	18/02/2009(18/02/2009 to 17/02/2039)
20	Weekly day of rest	Sunday
21	Date of opening of Mine	06/12/2014
22	Date of First Renewal, if applicable and its period & expiry	18/02/2039 to 17/02/2059, extension of lease in light of MMDR Amendment Act 2015.
23	Date of Second Renewal, if applicable and its period & expiry	NA
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Neeraj Akhoury MD & CEO Ambuja Cement Ltd, Elegant Business Park, MIDC Cross Roads,Andheri,Mumbai-400059 DOA -21.02.2020

26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri A.V.N.V.S Murthy PO – Rawan , Tehsil, BalodaBazar, District – Balodabazar-Bhatapara,PIN-493331,avnvs.murthy@ambujacement.com 07727220010 DOA – 01.06.2021
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Shiv Kumar Sahu M.G.Road Baloda Bazar,Phone: 08982073586,shiv.sahu@ambujacement.com PIN -493332 DOA-04/09/2020
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Mr.Vipin Sharma BE Mining (9 Yrs) DOA- 04/09/2020, PIN: 493331 Phone: 08982073667,vipin.sharma1@ambujacement.com Ambuja Cement Ltd Rawan Colony.
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
30	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	28/04/2008
31	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	30/08/2021
32	Mineral(s) granted in lease and approved for Mining	Limestone
33	Method of Mining (Opencast, Underground)	Opencast
34	Category (Fully Mechanized, Others or Manual)	Fully Mechanised
35	Captive/Non-Captive	Captive
36	Present EC Status	2.00 million ton
37	Status of Financial Assurance	Submitted

Scientific Mining: Compliance of proposals of approved Mining Plan/Review of Mining Plan:

1.0 Exploration:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
1a	Backlog of previous year Proposals	Not proposed	NiL	No Backlog.
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed	NiL	Entire lease area 553.656 ha is explored under G1 Category.
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not proposed	NiL	Entire lease area 553.656 ha is explored under G1 Category.
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not proposed	NiL	Entire lease area 553.656 ha is explored under G1 Category.
1e	Balance reserves as on 01.04.2022	As per approved modified mining Plan: Total Mineral Reserve- 264.813Million T Remaining Resource- 548.23813Million T	Balance reserves as on 01.04.2022: Total Mineral Reserve- 262.82. Total Remaining Resource- 548.23	
1f	General remarks of Inspecting officer on geology, exploration etc.	Entire lease area 553.656 ha is explored under G1 Category.		

2.0 Development:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
2a	Location of Development w.r.t. lease area	E609500- E609960& N 2394350-N 2394800 E609550- E607700& N 2394550- N 2394750	E609490- E609925& N 2394330-N 2394930 E609579- E609696 & N 2394710- N 2394880	Developmental is carried out within approved proposal.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in topsoil & Ore	Separate benches in topsoil & Ore are maintained as per	Separate benches in topsoil & Ore are maintained

			proposal.	
2c	Stripping ratio or ore to OB ratio	OB not proposed.	Nil.	
2d	Quantity of topsoil generation in m ³	31633	72200	Due to variation in thickness, Topsoil quantity varies.
2e	Quantity of overburden generation in m ³	Not proposed	Nil	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Developmental is carried out within approved proposal		

3.0 Exploitation:

S.N	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
3a	Number of pits proposed for production	01	01	01 pit
3b	Quantity of ROM mineral production proposed	2500000T	1988488T	ROM production is consumed to its captive plant.
3c	Recovery of Salable/usable mineral from ROM production	2500000T	1988488T	ROM production is consumed to its captive plant
3d	Quantity of mineral reject generation	Not proposed	Nil	Nil
3e	Grade of mineral reject generation and threshold value declared	Not proposed	Nil	Nil
3f	Quantity of sub-grade mineral generation	Not proposed	Nil	Nil
3g	Grade of sub-grade mineral generation	Not proposed	Nil	Nil
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanised	Mechanised	Mechanised
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	Nil	Nil
3j	Provision of drilling & blasting in mineral benches	Drilling and blasting is proposed,	Drilling and blasting is carried out as per proposal.	Drilling and blasting is carried out as per proposal.
3k	Provision of mining machineries in mineral benches	Shovel and dumper combination	Shovel and dumper combination	Excavator, Loader and Dumper are equipped to winning out the mineral.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Bench height is suitably matched with the excavator.
3m	Total area covered under excavation /pits	27.83 Hectare during plan period.	20.35 Hectare	20.35 Hectare area covered under excavation.
3n	Ore to OB ratio for the pit/mine during the year	OB not proposed.	Nil.	Nil.
3o	Total area put in use under different	Pit: 27.83 Ha	Pit- 20.35 Ha	Pit- 20.35 Ha

	heads at the end of year	Other heads : 39.08 Ha	Other heads: 24.48Ha	Other heads: 24.48Ha
3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	2017-18- 2000000 ton 2018-19- 500000 ton 2019-20 – 1000000 ton 2020-2021- 1000000 ton 2021-2022 2500000	2017-18- 115665 Ton 2018-19- 61545 Ton 2019-20 – 132490 Ton 2020-2021- 3135 Tons 2021-2022: 1988488 Tons	ROM production is consumed to its captive plant.
3q	General remarks of inspecting officer on method of mining etc	The ROM production has been carried out from single pit as per proposal..		

4.0 Solid Waste Management-Dumping:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Dump Not proposed	OB not proposed. Topsoil is temporary stored and concurrently utilized in plantation.	OB not proposed. Topsoil is temporary stored and concurrently utilized in plantation.
4b	Location of topsoil, OB & mineral reject dumps	Dump Not proposed	OB not proposed. Topsoil is temporary stored and concurrently utilized in plantation.	OB not proposed. Topsoil is temporary stored and concurrently utilized in plantation.
4c	Number of Dumps within lease area and outside lease area	Not proposed	NiL	NiL
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	NiL	NiL
4e	Number of Active & Alive dumps	Not proposed	NiL	NiL
4f	Number of dead dumps	Not proposed	NiL	NiL
4g	Number of dumps established	Not proposed	NiL	NiL
4h	Whether Retaining wall or garland drain all along dumps are there	YES	YES	Retaining wall along the mineral storage side is made.
4i	Length of Retaining wall or garland drain all along dump	Retaining wall 343m	Retaining wall 359m	Retaining wall along the mineral storage side is made.

4j	Number of settling ponds	Not proposed	NiL	NiL
4k	Specific commends of inspecting officer on waste dump management	OB not proposed. Topsoil is temporary stored and concurrently utilized in plantation. Retaining wall along the mineral storage side is made.		

5.0 Solid Waste Management-Backfilling:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not proposed	NiL	Area is not matured for reclamation and rehabilitation.
5b	Area under backfilling of mined out area	Not proposed	NiL	--do--
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	NiL	--do--
5d	Total area fully reclaimed & rehabilitated	Not proposed	NiL	--do--
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area is not matured for reclamation and rehabilitation.		

6.0 Progressive Mine Closer Plan:

S. N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26 (2)	As per provision of MCDR 2017.	Annual report on PMCP submitted	Annual report on PMCP submitted
6b	Management of worked/mined out benches	Not proposed	NiL	NiL
	Area available for rehabilitation (Ha)	Not proposed	NiL	Area is not matured for reclamation and rehabilitation.
	Afforestation done (ha)	1.0 Ha	1.92 Ha	Afforestation done in 1.92 Ha
	No. of saplings planted during the year	1500nos.	4814nos.	4800nos. saplings planted during the year
	Cumulative no. of plants	Not specified.	Total trees planted within ML:13693 nos.	Total trees planted within ML:13693 nos.
	Any other specific method of rehabilitation	Not proposed	NiL	Area is not matured for

				reclamation and rehabilitation.
	Cost incurred on watch & care during the year	2.50 Lakhs	3.70 Lakhs	Rs 3.70 Lakhs Cost incurred on watch & care
6c	Compliance on reclamation and rehabilitation by backfilling Voids available for backfilling (L*B*D) Void filled by waste/tailings Afforestation on the backfilling Rehabilitation by making water reservoir Any other specific means	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	Not proposed	NIL	NIL
6e	Compliance of Environment monitoring (core zone & buffer zone)	Quarterly monitoring	Quarterly monitoring	Quarterly monitoring
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Area is not matured for reclamation and rehabilitation. Plantation is carried out as per proposal.		

7.0 Mineral Conservation:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Total ROM Dispatched.	Total ROM is dispatched after crushing and screening.	Total ROM is dispatched after crushing and screening.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	Mechanical
7c	Different grade of mineral sort out at mine	Homogeneous grade	Homogeneous grade	Mechanical
7d	Any beneficiation process at mines	Not proposed	NIL	Not proposed
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Total ROM is dispatched through belt conveyor after crushing and screening.		

8.0 Environment:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	31633 m3	72200 m3	Topsoil is concurrently utilized in plantation.
8b	Concurrent use or storage of	YES	YES	Topsoil is

	topsoil			concurrently utilized in plantation.
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Dump Not proposed	OB not proposed. Topsoil is temporary stored and concurrently utilized in plantation.	posed. Topsoil is temporary stored and concurrently utilized in plantation.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1500nos. of plantation	4814nos. of plantation	4800nos. saplings planted during the year
8g	Survival rate	Not specified.	Survival rate 99.71%	Survival rate 99.71%
8h	Water sprinkling on roads to control airborne dust	Water tanker	Water tanker deployed to control airborne dust.	Water tanker deployed to control airborne dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mines area is maintained by plantation.		

9.0 Compliance of Rule 45:

S N	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	AR & MR submitted regularly.		AR & MR submitted regularly.
S N	Item	Details Given in A.R.	Observation of I/Officer	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer, Geologist employment is furnished	Mining engineer, Geologist are employed in the mine.	Mining engineer, Geologist are employed in the mine.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern furnished in AR.	Found in order.	Found in order.

9d	Scrutiny of Annual return on afforestation	Within Lease Area:4814 trees planted	Within Lease Area:4814 trees planted	Within Lease Area:4814 trees planted
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Opening Stock: 437780.00T, Production (ton): 1988488.00T, Closing Stock: 287227.00T	Opening Stock: 437780.00T, Production (ton): 1988488.00T, Closing Stock: 287227.00T	Opening Stock: 437780.00T, Production (ton): 1988488.00T, Closing Stock: 287227.00T
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex.Mine Price:Rs 239.36/ton. Production Cost : Rs 239.36/ton	Ex.Mine Price:Rs 239.36/ton.	Ex.Mine Price:Rs 239.36/ton.
9i	Scrutiny of Annual return on Fixed assets	Total Value of Fixed Assets: Rs 349506969	Fixed Assets: Rs 349506969	Fixed Assets: Rs 349506969
9k	Scrutiny of Annual return on mining Machineries	Machineries furnished in AR.	Found in order.	Found in order.

10- Details of violations observed during inspection and the compliance status.

No violation was observed during inspection.

Date: 23/12/2022

Signature:
Name: D. Upadhyay
Designation: Sr. ACOM