

MCDR INSPECTION REPORT

1.0 GENERAL

SL.N	PARTICULARS	DETAILS
1	File No.	CHG/BLB/LST/38CHG19003
2	Name & Designation of the inspecting officer	Shri Rudra N. Mishra, Senior Mining Geologist
3	Date of Inspection	28/07/2021 (MPI & MCDR)
4	Accompanying mine personnel	Mr. Raju Joshi , Head Mineral Resources
5	Date of Last Inspection & Officer	27/11/2020, Shri R K Das, Sr. ACOM
6	Name of the Mine	Maldi Mopar Limestone Mine
7	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest Land: Nil. Non-forest land: 553.656 Ha Total land: 553.656 Ha
8	Mine code	38CHG19003
9	IBM Registration Number under rule 45 of MCDR, 2017	IBM/447/2011
10	Name of the lessee, Address, , email and fax number	Ambuja Cements Ltd. PO – Rawan, Tehsil, BalodaBazar, District – Balodabazar-Bhatapara, Pin- 493331, Email: avnvs.murthy@ambujacement.com phone: 07727220010
	Village	Maldi, Mopar, Devrani, Karmandih & Boirdih
	Taluka/Mandal	Bhatapara,
	District	Baloda Bazar- Bhatapara
	Pincode	493331
	State	Chhattisgarh
	Post office	Rawan
11	Nearest police station	Balodabazar
12	Nearest Railway station	Bhatapara
13	Date of Grant of Mining Lease	29/10/2007
14	Date of Execution	18/02/2009
15	Date of opening of Mine	06/12/2014
16	Date of first Renewal, if applicable and its period & expiry	18/02/2009 to 17/02/2059
17	Date of Second Renewal, if applicable and its period & expiry	NA
18	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
19	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

		Mail. id: md.office@ambujacement.com Date of appointment: 21.02.2020
20	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, Email: avnvs.murthy@ambujacement.com phone: 07727220010 Date of appointment: – 01.06.2021
21	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Shiv Kumar Sahu M.G. Road Baloda Bazar, Phone: 08982073586, Email: shiv.sahu@ambujacement.com Date of appointment: -04/09/2020 Ambuja Cement Ltd Rawan Colony. PIN: 493331
22	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Vipin Sharma BE Mining (9 Yrs) Date of appointment: - 04/09/2020, Phone: 08982073667, Email: vipin.sharma1@ambujacement.com Ambuja Cement Ltd Rawan Colony. PIN: 493331
23	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes, Shri Shantanu Chatterjee, Manager Geology, M. Sc (Applied Geology), Ambuja Cement Ltd Rawan Colony. PIN: 493331, Phone: 9001090780, Email: santanu.chatterjee@ambujacement.com Date of appointment: - 23/07/2020
24	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan Approved vide letter no. 314(3)/2008-MCCM©/MP-1Nagpur dated 28/04/2008 Proposal period: 2008-09 to 2012-13 Modified Mining plan approved vide letter no-BLD/LST/MPLN-1127/2017/RPR Raipur dated 04/12/2017 Proposal period: 2017-18 to 2022-23
25	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Sheme of Mining Plan approved vide letter no-RAP/LST/MPLN-988/NGP Nagpur dated 13/10/2015. Proposal period: 2013-14 to 2017-18
26	Mineral(s) granted in lease and proved for mining	Limestone
27	Method of Mining (Opencast, Underground)	Opencast
28	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
29	Captive/Non-Captive	Captive

30	EC for ROM Prod:	2.00 million Tone dated 13/08/2010
31	FA amount Rs Valid up to:	Rs.2,27,40,000/--, Valid up to: 31/03/2023.

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 EXPLORATION

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
1a	Backlog of previous year	No Exploration Proposal has been given in approved document.	NA	Entire Lease area is explored under G1 Category
1b	Exploration over lease area for Geological axis 1 or 2.	No Exploration Proposal has been given in approved document	NA	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Exploration Proposal has been given in approved document	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Exploration Proposal has been given in approved document	NA	
1e	Balance reserves as 01.04.2021	Under 111 categories: 238.56 million tones, Under 211 categories: 574.48 million tones		
1f	General remarks of inspecting officer on geology, exploration etc.	Complete area is explored under G1 Category in 2016.		

2.0 DEVELOPMENT

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
2a	Location of development w.r.t. lease area	E609400-E609500 & N 2394500 -N 2394700 E609825-E610078 & N 2394478- N 2394650 E609750-E609950 & N 2394500-N2394610	Broadly as per proposal,	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes	Implemented	
2c	Stripping ratio or ore to OB ratio	1:0.14	1:0.0	

2d	Quantity of topsoil generation in m ³	110000 Tonne	0.0 tonne	
2e	Quantity of overburden generation in m ³	NIL	0.0 Tonne	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development is very less. Limestone production only 3135 tons but not dispatched		

3.0 EXPLOITATION

S.N.	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARK
3a	Number of pits proposed for production	01	01	
3b	Quantity of Limestone production proposed	1000000 Tonne	3135 Tonne	
3c	Recovery of saleable/usable mineral from Limestone production	1000000 Tonne	3135 Tonne	
3d	Quantity of mineral reject generation	0.03 million tons	NIL	
3e	Grade of mineral reject generation and threshold value declared	NA	NA-	
3f	Quantity of sub-grade mineral generation	NA	NA	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	Yes, Maintaining benches separately with suitable working method	
3m	Total area covered under excavation/pits	22.45 Hectare	14.312 Hectare	
3n	Ore to OB ratio for the pit/mine during the year	1:0.14	1:0.0	

3o	Total area put in use under different heads at the end of year	Pit: 22.45 Ha Other heads: 20.68 Ha	Pit- 14.31 Ha Other heads:22.48Ha	
3p	Production of Limestone during last Five -year period, as applicable	2016-17	124945 T	No dispatch
		2017-18	115665 T	No dispatch
		2018-19	61545 T	No dispatch
		2019-20	132490 T	No dispatch
		2020-21	3135 T	No dispatch
3q	General remarks of inspecting officer on method of mining etc.	Method of mining is Open cast mechanized mining with shovel dumper combination.		

4.0 SOLID WASTE MANAGEMENT-DUMPING

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Yes	Yes	
b	Location of topsoil, OB & mineral reject dumps	Top Soil E609657 to 609881 N2394837 to 2395009 OB Dump E609792 to 610096 N2394772 to 2395051	Broadly as per proposal,	
4c	Number of dumps within lease area and outside lease area	01	01	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	E609792 to 610096 N2394772 to 2395051	Broadly as per proposal,	
4e	Number of active & alive dumps	01	01	
4f	Number of dead dumps	Not mentioned in approved document	NA	
4g	Number of dumps stabilized	Not mentioned in approved document	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	Not mentioned in approved document	NA	
4i	Length of Retaining wall or garland drain all along dump	Not mentioned in approved document	NA	
4j	Number of settling ponds	Not Applicable	Not Applicable	
4k	Specific comments of inspecting officer	It's a development stage of mines. Production started from 2016 but not dispatched till 31/03/2021.		

5.0 SOLID WASTE MANAGEMENT-BACKFILLING

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not mentioned in approved document	NA	Area is not matured for backfilling, reclamation etc.
5b	Area under backfilling of mined out area	Not mentioned in approved document	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not mentioned in approved document	NA	
5d	Total area fully reclaimed & rehabilitated	Not mentioned in approved document	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Area is not matured for backfilling, reclamation etc.		

6.0 PROGRESSIVE MINE CLOSURE PLAN

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E (2). Details should be given in the format as given in Annexure-20.	Yes	Yes	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	Nil 1.0 hectare 1500	Nil 1.00 hectare 1510 Within ML- 8879 Out Side ML- 4623	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	Not mentioned in approved documents	NA	

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not mentioned in approved documents	NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Implementation of PMCP is done properly		

7.0 MINERAL CONSERVATION

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM directly dispatch from the mines to Captive plant.	ROM stacked at mines	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not mentioned in approved documents	NA	
7c	Different grade of mineral sorted out at mines	Not mentioned in approved documents	NA	
7d	Any beneficiation process at mines	Not mentioned in approved documents	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Limestone grade of this mine is meeting the specifications required for the Cement plant		

8.0 ENVIRONMENT

SN	ITEM	PROPOSALS (2020-21)	ACTUAL WORK (2020-21)	REMARKS
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Not mentioned in approved documents	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not mentioned in approved documents	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not mentioned in approved documents	NA	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	Not mentioned in approved documents	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Planned	1510 nos of Saplings within Lease, zero Saplings outside lease area	
8g	Survival rate	Not mentioned in approved documents	85%	
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling on roads is being done water tanker to control air borne dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	EMP parameters are monitored regularly for control.		

9.0 COMPLIANCE OF RULE 45

S. N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	M.R. Submitted up to–June-2021 A.R. submitted up to- 2020-21,	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O/C) Workings 14.312, Occupied by building, residential, welfare buildings, roads 7.90 ha & Other purpose: 7.806 ha, Reclaimed/Rehabilitated: 3.480 ha	
9d	Scrutiny of Annual return on afforestation	Within Lease area: 1000 nos of Saplings. Outside Lease area: Zero Saplings	Since the production is only 3135 T only so the cost of production is very high.
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Production: 3135 T, Opening Stock: 434645.00 T, Closing stock: 437780.00 T	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Rs. 2031.00 per ton ex-mine price and cost of production: Rs. 2031.00.	

9i	Scrutiny of Annual return on Fixed assets	Rs. 358338868.00 As per mentioned in the AR		
9k	Scrutiny of Annual return on mining Machineries	Type of Machinery	Capacity of each Unit	No. of Unit
		Shovel (Hydraulic)	6.55 Cum	1
		Dumper	55 T	3
		Air Compressor	400.000 CUM/MN	1
		Blast Host Drill	115.000 MM	1
		Water Tanker	9000.00Lt	1
		Dozer	330.000 HP	1

10 - Details of violations observed during current inspection and compliance position of earlier violation pointed out: - No serious violation observed. No Outstanding Violations. Also, Star rating of mines validated

Date: 05/08/2021

Rudra Narayan Mishra
Senior Mining Geologist