

MCDR INSPECTION REPORT

Part-I: General

1) Name of Inspecting officer:	Mr. Naman Ekka
2) Designation	Senior Mining Geologist, Gandhinagar
3) Accompanying mine official with designation	Tripurari Choudhary - Mines Manager
4) Date of Inspection	15.07.2024

S. N.	Particulars	Details
1	Name of the Mine	Lodhva Limestone & Marl Mine (having Various Survey Numbers)
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	505.6839ha {Non-Forest: 479.9511ha (Agriculture Land) and 25.7328 ha (Waste Land)} Forest: Nil
3	Mine code	38GUJ08365
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/447/2011
5	Name of the Lease, Address, Phone, email and fax number	M/s Ambuja Cements Limited At & PO: Ambujanagar, Taluka: Kodinar, District: Gir Somnath, State:Gujarat- 362 715 Tel.: (02795) 221137, 232009 Fax:(02795) 220328, 232032 e.mail id. ceo.cementbusiness@adani.com
6	Village	Lodhva
7	Taluka/Mandal	Sutrapada
8	District	Gir-Somnath
9	Pin code	362275
10	State	Gujarat
11	Post Office	Lodhva
12	Nearest Police Station	Sutrapada
13	Nearest Railway Station	Veraval
14	Date of Grant of Mining Lease	18 th NOV'2016 (vide Order No. MCR-1599-3748-CHH-1)
15	Date of Execution	02 nd January'2017
16	Date of opening of Mine	01 st March'2017
17	Date of First Renewal, if applicable and its period & expiry	Not Applicable
18	Date of Second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Ajay Kapur, (Managing Director and CEO) M/s Ambuja Cements Ltd. Adani Corporate House, Shantigram, S. G.Highway, Ahmedabad - 382 421,Gujarat. India Ph +91 79-2555 555 e.mail id: ceo.cementbusiness@adani.com Date of appointment: 17/09/2022
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Mahesh Kumar Jain M/s Ambuja Cements Limited, At & PO: Ambujanagar, Taluka: Kodinar, District: Gir

		Somnath, State: Gujarat- 362715 Tel. #: 02795 237011 e.mail id: maheshkumar.jain@adani.com Date of appointment: 06/06/2022
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Tripurari Choudhary M/s Ambuja Cements Limited, At & PO: Ambujanagar, Taluka: Kodinar, District: Gir Somnath, State: Gujarat- 362 715 Tel. #: (02795) 237217. e.mail id.: tripurari.choudhary@adani.com Date of appointment: 18.08.2023
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Tripurari Choudhary Qualification – Diploma (Mining) Total experience -28 years M/s Ambuja Cements Limited, At & PO: Ambujanagar, Taluka: Kodinar, District: Gir Somnath, State: Gujarat- 362 715 Tel. #: (02795) 237217. e.mail id.: tripurari.choudhary@adani.com Date of appointment: 18.08.2023
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Not Appointed
25	Date of Approval of Mine Plan/Modified Mine Plan with five-year period and specific condition in approval letter, if any.	The Review of Mining Plan along with Progressive Mine Closure Plan of Lodhva Limestone Mine {(having Various Survey Nos.), Area: 505.6839 hectares} was approved by Regional Controller of Mines (NR), vides Letter No.684 (4) (1) /MP-360(15)/2021-22– GNR, dated 15 th December, 2021.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	The Review of Mining Plan along with Progressive Mine Closure Plan of Lodhva Limestone Mine {(having Various Survey Nos.), Area: 505.6839 hectares} was approved by Regional Controller of Mines (NR), vides Letter No.684 (4) (1) /MP-360(15)/2021-22– GNR, dated 15 th December, 2021.
27	Mineral(s) granted in lease and approved for Mining	Limestone
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanised
30	Captive/Non-Captive	Captive

1.0 Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	FY22-23= 55BH (1650MTR) FY 23-24= Nil	FY22-23= Nil FY 23-24= 03BH (160Mtr)	Violation of Rule 11(1)
1b	Exploration over lease area for Geological axis 1 or 2.	During the year exploration has not been proposed	G1 = 329.7010 Ha. G2 = 175.9289 Ha.	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not in Proposal	As reported no work has been carried out	

1d	Balance area to be explored to bring Geological axis in 1 or 2.	G2 = 175.9289 Ha.	As reported no work has been carried out	
1e	Balance reserves as on 01.04.2024 (in tones)	-	Total Mineral Resources 181397232.00 (Limestone) Total Mineral Resources 1263816.00 (Marl)	
1f	General remarks of Inspecting officer on geology, exploration etc.	Entire lease area has not been explored in G1 Category, Violation of Rule 12(4) Pointed Out.		

2.0 Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Pit 2 Ext. - 664780E to 663293E , 2302926N to 2302575N Pit 1 Ext. - 663952E to 664242E, 2305426N to 2305421N Pit 1- 664242E to 664563E, 2305711N to 2305421N	Pit 1- 664242E to 664563E, 2305711N to 2305421N One New Pit in location 20°49'09.49" N, 70°35'10.49" E was observed	No work has been carried out in PIT 2 Ext. and Pit1 Ext. Violation of Rule 11(1) for Excavation in Location other than proposed.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Topsoil:- Nil Overburden:- Nil <u>Mineral:-</u> Pit 2 EXT –Bench - 02 Pit 1 Ext – Bench - 01 Pit 1- Bench - 02	Pit 1- Bench - 02	
2c	Stripping ratio or ore to OB ratio	Pit 2 EXT – 0.41 (ton/m ³) Pit 1 Ext – 0.41 (ton/m ³) Pit 1- 0.41 (ton/m ³)	1:0	
2d	Quantity of topsoil generation in m ³	307675 m ³	No Top soil Generated.	There was no topsoil in PIT 1
2e	Quantity of overburden generation in m ³	Not in Proposal	As reported no OB Generated.	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	No work has been carried out in PIT 2 Ext. and Pit1 Ext. only PIT -1 has been developed.		

3.0 Exploitation FY 2023-24

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	Production proposed for Limestone in Pit No-2ext, 1ext, Pit-1.	Only Pit 1 has been mined	
3b	Quantity of ROM mineral production proposed	Limestone:15,00,000 MT	Limestone: 4,76,311 MT	
3c	Recovery of Salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Not in Proposal	No Mineral Reject Generated	
3e	Grade of mineral reject generation and	Not in Proposal	Not applicable	

	threshold value declared		
3f	Quantity of sub-grade mineral generation	Not in Proposal	No sub-grade mineral generated
3g	Grade of sub-grade mineral generation	Not in Proposal	Not applicable
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Mechanized
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not in Proposal	No work carried out
3j	Provision of drilling & blasting in mineral benches	Not in Proposal	No Drilling and Blasting Carried out.
3k	Provision of mining machineries in mineral benches	Yes, Surface Miner (200 & 400 TPH), Hydraulic Excavator (3.8 m3 bucket), Front End Loader (3.5 to 5.0 m3) and Tata Tippers (16 CuM)	As reported the excavation, loading and transport has been carried out by Surface Miner (200 & 400 TPH), Hydraulic Excavator (3.8 m3 bucket), Front End Loader (3.5 to 5.0 m3) and Tata Tippers (16 CuM) respectively
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Not in Proposal	No OB generated
3m	Total area covered under excavation /pits (Ha.)	60.815 Ha	16.90 Ha (upto FY 23-24)
3n	Ore to OB ratio for the pit/mine during the year	Not in Proposal	No OB generated
3o	Total area put in use under different heads at the end of year	Area under Mining:- 60.815 ha Top Soil Storage: 5.3Ha Infrastructure: 0.6 Ha Road: 3.2333Ha Township Area: 0.4498Ha Other: 0.1483Ha	Area under Mining:- 24.21 ha Reclaimed & rehabilitated: 0.374 Plantation:1.000Ha Work done under PMCP: 0.200
3p	Production of ROM mineral during last five-years period, as Applicable	2019-20= 1.5 2020-21= 1.5 2021-22= 1.5 2022-23= 1.5 2023-24= 1.5	2019-20= 0.00 2020-21= 0.00 2021-22= 0.9804 2022-23= 1.05 2023-24= 0.4763
3q	General remarks of inspecting officer on method of mining etc	Method of Mining done is opencast; Production has not been achieved as per proposal.	

4.0 Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	OB:- Not in Proposal Mineral Reject:- Not in Proposal Topsoil:- Not in Proposal	No, Waste, OB or Topsoil has been generated.	
4b	Location of topsoil, OB & mineral reject dumps	OB:- Not in Proposal Mineral Reject:- Not in	No, Waste, OB or Topsoil has been generated.	

		Proposal Topsoil:- Not in Proposal	
4c	Number of Dumps within lease area and outside lease area	Not in Proposal	No work carried out
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Not in Proposal	No work carried out
4e	Number of Active & Alive dumps	Not in Proposal	No work carried out
4f	Number of dead dumps	Not in Proposal	No work carried out
4g	Number of dumps established	Not in Proposal	No work carried out
4h	Whether Retaining wall or garland drain all along dumps are there	Not in Proposal	No work carried out
4i	Length of Retaining wall or garland drain all along dump	Not in Proposal	No work carried out
4j	Number of settling ponds	Not in Proposal	No work carried out
4k	Specific commends of inspecting officer on waste dump management	No, Waste, OB or Topsoil has been generated.	

5.0 Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not in Proposal	No work carried out	
5b	Area under backfilling of mined out area	Not in Proposal	No work carried out	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	307675 m ³	No Top soil Generated.	
5d	Total area fully reclaimed & rehabilitated (Ha)	Not in Proposal	No work carried out	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Back filling and Reclamation work has not been carried out.		

6.0 Progressive Mine Closer Plan

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 23E (2).	Yes	Submitted on 20/06/2024	
6b	Area available for rehabilitation (Ha)	Not in Proposal for 2023-24	No work carried out against Rehabilitated	
6c	Afforestation done (ha)	1.0	0.2Ha	Violation of Rule 11(1)
6d	No. of saplings planted during the year	2500	250	Violation of Rule 11(1)
6e	Cumulative no. of plants	Not in Proposal	1500	
6f	Any other specific method of rehabilitation	Not in Proposal	No work carried out	
6g	Cost incurred on watch & care during the year	Rs.300000	Rs.100000	
6h	Compliance on reclamation and rehabilitation by	Not in Proposal	No work carried	

	backfilling (i) Voids available for backfilling (L X B X D).		out	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	Not in Proposal	No work carried out	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	Not in Proposal	No work carried out	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	Not in Proposal	No work carried out	
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	Not in Proposal	No work carried out	
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	Not in Proposal	No work carried out	
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	Not in Proposal	No work carried out	
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	Not in Proposal	No work carried out	
6p	Compliance of Environment monitoring (core zone & buffer zone)	Regular Monitoring	No work carried out	
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	PMCP compliance has not been done as per approved proposals.		

7.0 Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM Mineral Dispatch	ROM Mineral Dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not in Proposal	No work carried out	
7c	Different grade of mineral sort out at mine	Not in Proposal	No work carried out	
7d	Any beneficiation process at mines	Not in Proposal	No work carried out	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	As reported Optimum use of mineral is being done.		

8.0 Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	307675	No removal of Topsoil	
8b	Concurrent use or storage of topsoil	Top Soil shall be concurrently utilizes for development of Pasture Land/Agri-farming.	No removal of Topsoil	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not in Proposal	No work carried out	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not in Proposal	No work carried out	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not in Proposal	No work carried out	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	2500 saplings in 1Ha	No. of sapling Planted: 250	
8g	Survival rate	70%	70%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on Haul Road.	Sprinkling of water on roads is in practice.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Mines is surrounded by little to no vegetation of local species, Plantation has been done by lessee within the lease area.		

9. Compliance of Rule 45 (2022-23)

S.N.	Item	Comments	Observation	Remarks
9a	Status of submission of monthly and Annual returns	Monthly Return - June – 06/07/2024 July – 8/08/2024; August – 7/09/2024; Sept. – 8/10/2024; Oct. – 8/11/2024 Annual Return - of FY 22- FY 23-24 - 20/06/2024		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer= Shri Tripurari Choudhary Geologist= Avinash Rai	Mining Enginee - Shri Tripurari Choudhary Geologist - Avinash Rai (for the Period- 2023-24)	Geologist at the time of inspection was not appointed.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pits – 23.836 Reclaimed area – 0.374 Plantation – 1.0 Ha.	Area under Pits – 16.9 Ha. Reclaimed area – 0.00 Ha. Plantation – 0.2 Ha.	Area Covered Under Pits is shown more than the actual area covered under pits. Showcause of Rule 45(7) is observed.
9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year - 250	Number of trees planted during the year – 250; survival rate – 70%	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Mineral Reject was not generated in mines.	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Grade of Ore:- Cement Opening stock at mine-head:- 300474MT Production:- 476311MT Despatch:- 509099MT Closing stock at mine-head:-	Grade of Ore:- Cement Opening stock at mine-head:- 300474MT Production:- 476311MT Despatch:- 509099MT Closing stock at mine-head:-	

		267686MT	267686MT	
9g	Scrutiny of Annual return on sale value, Ex.Mine price & production costs	Ex. Mine price – 187.05/- Cost of Production – 187.05/-	Ex. Mine price – 187.05/- Cost of Production – 187.05/-	
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets (₹ 281439227)	Value of Fixed Assets (₹ 281439227) Reported for Land, Industrial Building, Machinery.	
9k	Scrutiny of Annual return on mining Machineries	Surface Miner Wheel Loader Back Hoe Dozer	Surface Miner Wheel Loader Back Hoe Dozer Dumper Water Sprinkler.	Violation of Rule 45(7)

Details of violations observed during current inspection:-

Violation of MCDR-2017, Rules 11(1), 55(1)(3)(i), 45(7) is observed.

Date: 03/12/2024

Naman Ekka
SMG