

MCDR INSPECTION REPORT**1.0 GENERAL**

S. N.	Particulars	Details
1a	Name of the Mine	Lodhva Limestone & Marl Mine (having Various Survey Numbers)
1b	Date of Inspection:	20.12.2023
1c	Name of Inspecting Officer	Sunil Kumar Sharma, Sr.ACOM
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 lessee, 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, 237011 Fax # : 02795) 220328, 232032 e.mail id: mines-ambujanagar@adani.com
6	Villages	Lodhva
7	Taluka/Mandal	Sutrapada
8	District	Gir-Somnath
9	Pincode	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 Mines 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 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

1/25734/2024

		715 Tel. #: (02795) 237217. e.mail id.: tripurari.choudhary@adani.com Date of appointment: 18.08.2023
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	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
25	Date of Approval of Mining Plan/Modified Mining 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 Review of Mining Plan/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 proved for mining	Limestone
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	'A' (Mechanized Opencast)
30	Captive/Non Captive	Captive

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

Exploration

S. No.	Item	Proposals (2022-23)	Actual work	Remarks
1a	Backlog of previous year	No backlog	NA	-
1b	Exploration over lease area for Geological axis 1 or 2.	53 boreholes to the location of Block-1&2	3 boreholes done due to local site issue.	Violation observed under Rule 11(1).
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Proposed	NA	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	NA	-
1e	Balance reserves as on 01.04.2023 (in million tonnes).	Balance reserves as on 01.04.2022 (in million tonnes). 88.29 million Tonnes.	Balance reserves as on 01.04.2023 (in million tonnes). 87.24 million Tonnes.	-
1f	General remarks of inspecting officer on geology, exploration etc.	Exploration over the lease area will be done up to G1 level and completed till 31/03/2024.		

2.0 Development

S. No.	Item	Proposals(2022-23)	Actual work	Remarks
2a	Location of development w.r.t. lease area in 2022-23	24.48 ha in between Grid lines of {664780 E to 664563 E & 2302733 N to 2305711 N} shall be opened-up for exploitation of Limestone.	664780 E to 664563 E & 2302733 N to 2305711 N	-
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	The top soil occurring within the proposed working area would be removed separately and concurrently used for Plantation /	Removed and reused as proposal.	-

1/25734/2024

		horticultural activities.		
2c	Stripping ratio or ore to OB ratio	1:0	1:0	-
2d	Quantity of topsoil generation in m ³	172665 m ³	44000 m ³ Removed and reused.	
2e	Quantity of overburden generation in m ³	No overburden	NA	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The top soil occurring within the proposed working area is being removed separately and concurrently used for Plantation.		

3.0 Exploitation

S.No.	Item	Proposals (2022-23)	Actual work	Remarks
3a	Number of pits proposed for production	24.48 ha in between Grid lines of {664780 E to 664563 E & 2302733 N to 2305711 N} shall be opened-up for exploitation of Limestone.	As proposed	Partially achieved as per plant requirement.
3b	Quantity of ROM mineral production	1.50 million tonnes	1.05 million tonnes	-
3c	Recovery of saleable/usable mineral from ROM production	95%	-	-
3d	Quantity of mineral reject generation	Not Proposed	NA	-
3e	Grade of mineral reject generation and threshold value declared	Not Proposed	NA	-
3f	Quantity of sub-grade mineral generation	Not Proposed	NA	-
3g	Grade of sub-grade mineral generation	Not Proposed	NA	-
3h	Manual / Mechanised method adopted for segregating from ROM	Not Proposed	NA	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject.	Not Proposed	NA	-
3j	Provision of drilling & blasting in mineral benches	Mining deposit is sedimentary, only surface miner is proposed.	Mining is carried out with surface miner.	-
3k	Provision of mining machineries in mineral benches	The excavation, loading and transport shall be carried out by Surface Miner (200 & 400 TPH), Hydraulic Excavator (3.8 m ³ bucket), Front End Loader (3.5 to 5.0 m ³) and Tata Tippers (16 CuM) respectively.	As proposed.	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/ SOM	No O/B	No O/B	-
3m	Total area covered under excavation/pits	Total 24.48 ha proposed for 2022-23.	17.324 Ha	-7.156 Ha area due to local issue
3n	Ore to OB ratio for the pit/mine during the year 2022-23	No O/B	NA	
3o	Total area put in use under different heads at the end of year	34.2114 ha	27.0554 Ha.	-7.156 Ha area due to local issue
3p	Production of ROM mineral during last five-year period, as applicable (In million tonne)	2018-19=1.5 2019-20= 1.5 2020-21= 1.5 2021-22= 1.5 2022-23= 1.5	2018-19=0.0 2019-20= 0.0 2020-21= 0.0 2021-22 =0.9804 2022-23= 1.05	-

1/25734/2024

3q	General remarks of inspecting officer on method of mining etc.	The mining operations shall be carried out by Surface Miner, Hydraulic Excavators, Front End Loaders and Tippers.
----	--	---

4.0 Solid Waste Management-Dumping

S.No	Item	Proposals (2022-23)	Actual work (2022-23)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	172665 m ³	44000 m ³ Removed and reused.	
4b	Location of topsoil, OB & mineral reject dumps	664780 E to 664563 E & 2302733 N to 2305711 N	664780 E to 664563 E & 2302733 N to 2305711 N	
4c	Number of dumps within lease area and outside lease area	Not Proposed	NA	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed	NA	
4e	Number of active & alive dumps	Not Proposed	NA	
4f	Number of dead dumps	Not Proposed	NA	
4g	Number of dumps stabilized	Not Proposed	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	NA	
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	NA	
4j	Number of settling ponds	Not Proposed	NA	
4k	Specific comments of inspecting officer	The top soil occurring within the proposed working area is being removed separately and concurrently used for Plantation.		

5.0 Solid Waste Management-Backfilling

S.No.	Item	Proposals (2022-23)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not Proposed	Not Applicable	
5b	Area under backfilling of mined out area	Not Proposed	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Total 172665 m ³ top soil would be removed separately and concurrently utilizes for development of Pasture Land/ Agri-farming	44000 m ³ Removed and reused.	
5d	Total area fully reclaimed & rehabilitated	Not Proposed	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The top soil occurring within the proposed working area is being removed separately and concurrently used for Plantation.		

6.0 Progressive Mine Closure Plan

S.No.	Item	Proposals (2022-23)	Actual work	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	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	i)Not Proposed ii)1.0 Ha iii) 2500 No. iv) - v)NIL vi)Rs 10,00,000	i)NIL ii) 0.724 Ha iii) 700 No. iv) 1000 v)Nil vi)Rs. 4,89,561/-	The sapling is not carried out in accordance of the approved mining plan in the year 2022-23.
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 Proposed	NA	

1/25734/2024

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not Proposed	NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Regular Monitoring	Regular Monitoring	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Violation was observed under Rule 11(1) for plantation. The sapling is not carried out in accordance of the approved mining plan in the year 2022-23.		

7.0 Mineral Conservation –

S.No.	Item	Proposals (2022-23)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Mineral dispatch 15,00,000 tonnes	ROM Mineral dispatch 8,79,668 tonnes	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Proposed	NA	-
7c	Different grade of mineral sorted out at mines	Not Proposed	NA	-
7d	Any beneficiation process at mines	Not Proposed	NA	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There is no sorting of mineral in the pit. ROM dispatches to captive cement plant.		

8.0 Environment

S.No	Item	Proposals (2022-23)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Total 172665 m ³ top soil would be removed separately and concurrently utilizes for development of Pasture Land/ Agri-farming	44000 m ³ Removed and reused.	-
8b	Concurrent use or storage of topsoil	Top Soil shall be concurrently utilizes for development of Pasture Land/Agri-farming.	Nil	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed	NA	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	NA	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	NA	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1000 saplings in 1Ha	Number of sapling Planted: 700(ML), 250(OML)	-
8g	Survival rate	Survival Rate: 70%	70%	-
8h	Water sprinkling on roads to control airborne dust	Proposals have been made for water sprinkling on haul road.	Water sprinkling on haul road is carried out.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Violation was observed under Rule 11(1) for plantation. The sapling is not carried out in accordance of the approved mining plan in the year 2022-23.		

I/25734/2024

9.0 Compliance of Rule 45

S.No.	Item	COMMENTS	Remarks
9a	Status of submission of Online Monthly and Annual returns	M.R. Submitted up to – Nov. 2023 A.R. submitted up to 2022-23	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: 02 Geologist:01	At the time of inspection, it is found that no geologist is appointed for the mine. (Violation observed under Rule 55(1).
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under Forest 0.000 hectares Outside Forest 505.684 hectares	
9d	Scrutiny of Annual return on afforestation	Total no. of trees at the end of the year within lease area: 490 Outside the lease area: 175	Violation was observed under Rule 11(1) for plantation
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock : 3,00,474 tonnes (as on 31.03.2023)	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Rs. 262.01	-
9i	Scrutiny of Annual return on fixed assets	Rs 31,86,64,273/-	Land, Plant and machinery.
9k	Scrutiny of Annual return on mining machineries	SURFACE MINER 950 HP- 1, WHEEL LOADER 4.8 CUM- 2, BACK HOE 3.2 CUM -1,DOZER 410 HP -1, TIPPER 16 CUM -28	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-
Details of Validations observed during current inspection and compliance position of earlier violation pointed out

Rule No.	Nature of Violation pointed out
11(1)	इस कार्यालय के पत्र संख्या 684(4)(1)/MP-360(15)/2021-22/GNR दिनांक 15.12.2021 के द्वारा अनुमोदित खनन योजना के निम्न लिखित प्रावधानों का उल्लंघन करते हुए खनन कार्य किया जा रहा है- (i) अनुमोदित खनन योजना की बिंदु संख्या 2.2.5.5 के अनुसार वर्ष 2022-23 में गवेषण (Exploration) के लिए 55 बोरहोल (boreholes) प्रस्तावित थे, लेकिन निरीक्षण के समय पाया गया कि निर्धारित गवेषण (Exploration) नहीं किया गया (ii) अनुमोदित खनन योजना की बिंदु संख्या 6.2.3.2 के अनुसार वर्ष 2022-23 में पर्यावरण सुधार हेतु 2500 पौधे लगाकर वृक्षारोपण करना प्रस्तावित था,लेकिन निरीक्षण के समय पाया गया कि निर्धारित वृक्षारोपण नहीं किया गया है।
55(1)	श्रेणी 'ए' खदानों के मामले में, खनन पट्टे का प्रत्येक धारक को पूर्णकालिक एक भूविज्ञानी को नियुक्त करना होगा, लेकिन निरीक्षण के समय पाया गया कि नियमानुसार लोधवा चूनापत्थर खदान के लिए भूवैज्ञानिक को नियुक्त नहीं किया गया है

(Sunil Kumar Sharma)
Sr. Asst. Controller of Mines
Indian Bureau of Mines
