

MCDR INSPECTION REPORT FY 2023-24

1) Name of Inspecting officer:	Mohammad Nimar
2) Designation	DCOM-Gandhinagar
3) Accompanying mine official with designation	Mayur kumar Galoriya-Mines Manager Vikas Tiwari- Geologist
4) Date of Inspection	17-07-2024

Part-I: General

S. N.	Particulars	Details
1	Name of the Mine	Sugala Limestone & Marl Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	417.3584ha { Non-Forest: 417.3584ha Forest: Nil
3	Mine code	38GUJ08299
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	Sugala & Jagatiya
7	Taluka/Mandal	Kodinar
8	District	Gir-Somnath
9	Pin code	362715
10	State	Gujarat
11	Post Office	Ghatwad
12	Nearest Police Station	Ghatwad
13	Nearest Railway Station	Veraval
14	Date of Grant of Mining Lease	19 th JUL '2002 (vide Order No. MCR-1096-3711-CHH)
15	Date of Execution	02-09-2002 to 01-09-2052
16	Date of opening of Mine	02-11-2002
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 Mayurkumar Galoriya M/s Ambuja Cements Limited, At & PO: Ambujanagar, Taluka: Kodinar, District: Gir Somnath, State: Gujarat- 362 715 Tel. #: (02795) 237011. email id.: mayurkumar.galoriya@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 Mayurkumar Galoriya 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) 237011. email id.: mayurkumar.galoriya@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.	Shri Avinash Rai Qualification – Post Graduate (M.Sc. Geology) M/s Ambuja Cements Limited, Address-At & PO: Ambujanagar, Taluka: Kodinar, District: Gir Somnath, State: Gujarat- 362 715 Tel. # : (02795) 237217. email id.: avinash.raii9@adani.com Date of appointment in mines 01.06.2024
25	Date of Approval of Mine Plan/Modified Mine Plan with five-year period and specific condition in approval letter, if any.	The Mining Plan of Sugala Limestone & Marl Mine 417.3584 Ha was approved by Controller of Mines (NZ) Ajmer vides Letter No.682 (23) MS-374/2006 – Udp, dated 02 nd December, 2016. Condition no. 6 regarding change of the name of Company from Gujarat Ambuja Cements Ltd. To Ambuja Cements Ltd. – It has been compiled by the order no.MCR-102011-1770-chh01, Sachivalay, Gandhinagar dtd. 18.09.2017 & 17.10.2017.
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 Mining Plan of Sugala Limestone & Marl Mine period starting from 2022-23 to 2026-27 over an Area: 417.3584 hectares} was approved by Regional Controller of Mines Gandhinagar, vide Letter No.684 (4)(1)/ MP-361/2021-22 – GNR, dated 17 th December, 2021.
27	Mineral(s) granted in lease and approved for Mining	Limestone & Marl
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	‘A’ (Mechanized Opencast)
30	Captive/Non-Captive	Captive

PART III-MCDR Report details.

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Not proposed	Not Applicable	Exploration over the lease area done upto G1 level
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed	Not Applicable	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not proposed	Not Applicable	

1d	Balance area to be explored to bring Geological axis in 1 or 2.	No area Remaining for exploration	Not Applicable	
1e	Balance reserves as on 01.04.2024 (in tones)	111:- 16082225	111:- 16145649	
1f	General remarks of Inspecting officer on geology, exploration etc.	Total area is explored in G1 level.		

2. Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	N2310945-2311642 to 2310350-2311160 E683230-683636 to 683100-683855	N20°53.982' E70°45.733'	Work done as per proposed planning as per mentioned grids and achieved.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Topsoil:- Nil Overburden:- Nil Mineral reject:- Nil	Not Applicable	
2c	Stripping ratio or ore to OB ratio	1:00	Not Applicable	
2d	Quantity of topsoil generation in m ³	97196	Nil	
2e	Quantity of overburden generation in m ³	Not proposed	Not Applicable	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development work is done within the proposed limit.		

3. 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-27ext., 24ext, 25ext.	N20.908397, E70.766786 & N20.888589,E70.7629 21	
3b	Quantity of ROM mineral production proposed	Limestone:1290000 MT	Limestone:1226598 MT	
3c	Recovery of Salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Not proposed	Not Applicable	
3e	Grade of mineral reject generation and threshold value declared	Not proposed	Not Applicable	
3f	Quantity of sub-grade mineral generation	Not proposed	Not Applicable	
3g	Grade of sub-grade mineral generation	Not proposed	Not Applicable	
3h	Manual/Mechanized method adopted for segregation from ROM	Not proposed	Not Applicable	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Eco friendly mining with surface miner is proposed in day-light hours	In practice	
3j	Provision of drilling & blasting in mineral benches	Not proposed	Mining operation is carried out by	

			deployment of proposed mining machineries.	
3k	Provision of mining machineries in mineral benches	The mine is being worked by mechanized open-cast method of mining without adoption of drilling & blasting which comprises bench height 3-6 meters & bench width not less than bench height, overall bench slope 45 degree.	Same as per Plan.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Not proposed	Not Applicable	
3m	Total area covered under excavation /pits (Ha.)	248.084	232.806	
3n	Ore to OB ratio for the pit/mine during the year	Not proposed	As per Proposal	
3o	Total area put in use under different heads at the end of year	Area under Mining:- 248.084 ha Infrastructure:1.954Ha Road:1.8 Ha Other (R&R, Plantation): 36.927Ha	Area under Mining:- 232.806 ha Reclaimed & rehabilitated: 37.528Ha Occupied by plant, buildings, residential, welfare buildings and roads:- 1.954Ha other purpose (Plantation): 16.090Ha Work under PMCP: 0.178Ha	
3p	Production of ROM mineral during last five-years period, as Applicable	2018-19=1.29 2019-20= 1.29 2020-21= 1.29 2021-22= 1.29 2022-23= 1.29 2023-24= 1.29	2018-19=1.277 2019-20= 1.278 2020-21= 1.288 2021-22= 1.289 2022-23= 1.289 2023-24= 1.226	
3q	General remarks of inspecting officer on method of mining etc	Mining is being carried out with the help of Surface Miners, Back hoe, loader and tippers. All the generated ROM is being utilized for captive consumption.		

4. Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	OB:- Not proposed Mineral Reject:- Not proposed Topsoil:- 97196 m ³	OB:- As per Proposal Mineral Reject:- As per Proposal Topsoil:- Nil	Top soil removed separately and concurrently utilizes for development of Pasture Land/Agri-
4b	Location of topsoil, OB & mineral reject dumps	OB:- Not proposed Mineral Reject:- Not proposed Topsoil:- N2310945-2311642 to E683230-683636	Removal of Topsoil is Nil.	

4c	Number of Dumps within lease area and outside lease area	Not proposed	Not Applicable	farming
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Not Applicable	
4e	Number of Active & Alive dumps	Not proposed	Not Applicable	
4f	Number of dead dumps	Not proposed	Not Applicable	
4g	Number of dumps established	Not proposed	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	Not Applicable	
4i	Length of Retaining wall or garland drain all along dump	Not proposed	Not Applicable	
4j	Number of settling ponds	Not proposed	Not Applicable	
4k	Specific comments of inspecting officer on waste dump management	No issue reported in solid waste management .		

5. 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 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)	97196	NIL	
5d	Total area fully reclaimed & rehabilitated (Ha)	Not proposed	Not Applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	NO top soil generated during the year and no work carried out.		

6. 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). Details should be given in the format as given in Annexure-20	Yes	Submitted on 20-06-2024 along with Annual Return.	
6b	Area available for rehabilitation (Ha)	Not proposed	Not Applicable	
6c	Afforestation done (ha)	5.0	5.0 Ha	
6d	No. of saplings planted during the year	7500	4399 within lease area & 6914 Outside lease area	
6e	Cumulative no. of plants	Not proposed	As per Proposal	
6f	Any other specific method of rehabilitation	Not proposed	As per Proposal	
6g	Cost incurred on watch & care during the year	Rs.1650000	Rs.967780	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	Not proposed	Not Applicable	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	Not proposed	Not Applicable	
6j	Compliance on reclamation and rehabilitation by backfilling	Not proposed	Not Applicable	

	(iii) Afforestation on the backfilled area.		
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	Not proposed	Not Applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	Not proposed	Not Applicable
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	Not proposed	Not Applicable
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	Not proposed	Not Applicable
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	Not proposed	Not Applicable
6p	Compliance of Environment monitoring (core zone & buffer zone)	Regular Monitoring	As per Proposal
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Plantation as proposed was not carried out. Violation under Rule 11(1) for plantation and fencing sent.	

7. Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Not proposed	Not Applicable	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not proposed	Not Applicable	
7c	Different grade of mineral sort out at mine	Not proposed	Not Applicable	
7d	Any beneficiation process at mines	Not proposed	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No issue reported in Mineral conservation. All the ROM generated is being used in captive consumption.		

8. Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	97196	NIL	
8b	Concurrent use or storage of topsoil	Top Soil shall be concurrently utilizes for development of Pasture Land/Agri-farming.	None	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Not proposed	Not Applicable	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Not	

			Applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Not Applicable	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	7500 saplings in 5Ha	Within lease area:- 4399 Outside lease area:- 6914	
8g	Survival rate	70%	70%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on Haul Road.	Yes, through water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Environmental monitoring is being carried out on quarterly basis. No top soil generated during the year.		

9.0 Compliance of Rule 45

S. No.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	Monthly Returns upto July 2024 & Annual Returns up to 2023-24 submitted (20-06-2024) with stipulated time.	

S. No.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer, Geologist and Manager -1	Mines Manager= Shri Tripurari Choudhary Mining Engineer= Shri Tripurari Choudhary Geologist= Shri Avinash Rai	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current O/C Workings – 232.806, Reclaimed-rehabilitated - 37.528, Occupied by plant, buildings, residential, welfare buildings and roads – 1.954, Plantation – 16.09, progressive mine closure plan during the year 0.178	Covered under current O/ C Workings – 232.806, Reclaimed-rehabilitated - 37.528, Occupied by plant, buildings, residential, welfare buildings and roads – 1.954, Plantation – 16.09, progressive mine closure plan during the year 0.178	
9d	Scrutiny of Annual return on afforestation	4399 within lease area & 6914 Outside lease area	4399 within lease area & 6914 Outside lease area	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	0.00 MT	0.00 MT	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	0.00 MT	0.00 MT	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex Mine Price and cost of Production - Rs 189.44	Ex Mine Price and cost of Production - Rs 189.44	
9i	Scrutiny of Annual return on fixed assets	Rs 345248221/-	Rs 345248221/-	

9k	Scrutiny of Annual return on mining machineries	Surface Miner 900.000 HP 1, Surface Miner 610.000 HP , Dozer 410.000 HP 1, Front End Loader 4.600 Cum 1 , Front End Loader 5.000 Cum 1 ,Tipper 21.875 Cum 25 , Tipper 26.250 Cum 15	Surface Miner 900.000 HP 1, Surface Miner 610.000 HP , Dozer 410.000 HP 1, Front End Loader 4.600 Cum 1 , Front End Loader 5.000 Cum 1 ,Tipper 21.875 Cum 25 , Tipper 26.250 Cum 15	
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10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: -No violations were pointed out in the year 2022-23.

- 1) This year violation under Rules 11(1), 45(5)©, 47 and 48 observed. Violation cum show cause notice issued on 21-08-2024 and the same has been complied on 30-09-2024.
- 2) Drone data of the mine has been checked and found that it is not as per SOP hence Referred back on DDMS portal.

Mohammad Nimar
 Deputy Controller of Mines
 Regional Office
 Indian Bureau of Mines
 Gandhinagar.