

INSPECTION REPORT

1.0 GENERAL

S.No	Particulars	Details
1(a)	Name of the Mine	Gujarat Ambuja Limestone Mine (Survey No.44)
1(b)	Name of Inspecting Officer & Designation	D.D.Bhardwaj, Sr. Asst. Cont. of Mines (IBM)
1(c)	Accompanying Mines Representatives	Mahendra Singh Mertia
1(d)	Type of Inspection	Modified Mining Plan and Star Rating
1(e)	Date of Inspection	22-06-2021
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non-Forest:108.9700 hectares Forest: Nil
3	Mine code	38GUJ02008
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, 232009 Fax: (02795) 220328, 232032 e.mail id. <u>md.office@ambujacement.com</u>
6	Village	Vadnagar
7	Taluka/Mandal	Kodinar
8	District	Gir-Somnath
9	Pin code	362715
10	State	Gujarat
11	Post office	Ambujanagar
12	Nearest police station	Kodinar
13	Nearest Railway station	Somnath & Veraval
14	Date of Grant of Mining Lease	10 th January, 1985
15	Date of Execution	16 April,1985
16	Date of opening of Mine	30 th January, 1986
17	Date of first Renewal, if applicable and its period & expiry	Renewed & Extended for 30 years lease period (16/04/2005 to 15/04/2035), vide Order No. MCR-102011-1770-CHH.1, dated: 02/07/2015
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,	Mr. Neeraj Akhoury (Managing Director & CEO)

	phone, email, fax number and date of appointment	M/s Ambuja Cements Ltd. Elegant Business Park, MIDC Cross Road 'B', Off Andheri – Kurla Road, Andheri (East), Mumbai-400 059. Tel.: 022 4066700 Fax: – 022 30827790 e.mail id. md.office@ambujacement.com Date of appointment: 01/03/2019
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Anupam Agrawal 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. Anupam.Agrawal@ambujacement.com Date of appointment: 20/03/2021
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Mahendra Singh Mertia M/s Ambuja Cements Limited At & PO: Ambujanagar, Taluka: Kodinar District: Gir Somnath, State:Gujarat- 362 715 Tel.: (02795) 237211 Fax: (02795) 220328, 232032 E-mail: Mahendrasing.mertia@ambujacement.com Date of appointment: 20/03/2021
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Mahendra Singh Mertia M/s Ambuja Cements Limited At & PO: Ambujanagar, Taluka: Kodinar District: Gir Somnath, State:Gujarat- 362 715 Tel.: (02795) 237211 Fax: (02795) 220328, 232032 E-mail: Mahendrasing.mertia@ambujacement.com Date of appointment: 20/03/2021
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Avinash Rai M/s Ambuja Cements Limited At & PO: Ambujanagar, Taluka: Kodinar District: Gir Somnath, State:Gujarat- 362 715 Tel.: (02795) 237200 Fax: (02795) 220328, 232032 e.mail id. avinash.raai@ambujacement.com Date of appointment: 15/06/2019
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in	The Mining Plan along with Progressive Mine Closure Plan was approved vide IBM, Ajmer Letter No.682 (23) (370) /2005-Udp, dated 01-04-2005 for the renewal of Mining Lease for five years

	approval letter, if any.	period, without any special condition.
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 Scheme of Mining along with Progressive Mine Closure Plan under reference was approved vide IBM, Udaipur Letter No. 684(4)(1)/MP-252/2019-20-GNR, Dated-21/11/2019) for five years period (2020-21 to 2024-25), without any special condition.
27	Mineral(s) granted in lease and proved for mining	Limestone and Marl.
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
30	Captive/Non Captive	Captive

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

Exploration

S.No	Item	Proposals(2020-21)	Actual work	Remarks
1a	Backlog of previous year	The deposit has been adequately explored therefore; further exploration has not been planned.	Not Applicable	Exploration over the lease area done Up To G1 level and completed in 2010.
1b	Exploration over lease area for Geological axis 1 or 2.	During the year exploration has not been 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 01.04.2021 (in million tonnes)	Limestone: 1.978 Marl: 4.517		
1f	General remarks of inspecting officer on geology, exploration etc.	Mine is explored to G-1 level.		

2.0 Development

S.No.	Item	Proposals(2020-21)	Actual work	Remarks
2a	Location of development w.r.t. lease area	During the year 2020-21 the development has been proposed for limestone in N12–N13 of AA', for Marl N13-N15 of	As Per Proposal for Marl at pit No.-2.	

		E19.		
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No topsoil exists in the lease area	Not Applicable	
2c	Stripping ratio or ore to OB ratio	Limestone deposit is simple and free from any overburden.	Not Applicable	
2d	Quantity of topsoil generation in m3	Area proposed for mining operation is free from topsoil.	Topsoil generation is nil.	No OB in Lease.
2e	Quantity of overburden generation in m3	Nil	Not Applicable	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The mine is being as per development plan.		

3.0 Exploitation

S.No.	Item	Proposals (2020-21)	Actual work	Remarks
3a	Number of pits proposed for production	Production proposed in Pit 2&5.	As per Proposal	
3b	Quantity of ROM mineral production proposed (in tonnes)	Limestone: 20000 Marl: 50000	Limestone: 17343 Marl: 18300	
3c	Recovery of saleable / usable mineral from ROM production	100%	100% mineral Utilized	Captive Use
3d	Quantity of mineral reject generation	Nil	NIL	
3e	Grade of mineral reject generation and threshold value declared	Nil	NIL	
3f	Quantity of sub-grade mineral generation	Not Proposed	NIL	
3g	Grade of sub-grade mineral generation	Not Proposed	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Not Proposed	NIL	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject.	Not Proposed	NIL	
3j	Provision of drilling & blasting in mineral benches	Mining by Surface Minor in combination with front end Loader	As per Proposal	
3k	Provision of mining machineries in mineral	Limestone excavation by	As per Proposal	

	benches	Surface Miner & Marl By Excavator.		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No OB	Not Applicable	
3m	Total area covered under excavation/pits	88.4668 Ha Agro/pasture land=12.1889	88.4668 Ha Agro/pasture land=12.1889	
3n	Ore to OB ratio for the pit/mine during the year	No OB	Not Applicable	
3o	Total area put in use under different heads at the end of year	Pit-98.9475 ha Others-7.92 Ha	Pit-88.4668ha Others-7.92 Ha	
3p	Production of ROM mineral during last five-year period, as applicable (in million tonnes)	2015-16: 1.037 2016-17: 0.609 2017-18: 0.401 2018-19: 0.385 2019-20: 0.325	2015-16: 0.515 2016-17: 0.126 2017-18: 0.014 2018-19: 0.045 2019-20: 0.00	Limestone 43.33 CaO
		2015-16: 1.466 2016-17: 0.050 2017-18: 0.588 2018-19: 0.205 2019-20: 0.000	2015-16: 0.011 2016-17: 0.025 2017-18: 0.012 2018-19: 0 2019-20: 0.000	Marl 31.10 CaO
3q	General remarks of inspecting officer on method of mining etc.	Less Production due to rain water accumulation in the mine.		

4.0 Solid Waste Management-Dumping

S.No	Item	Proposals (2020-21)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not Proposed	Nil	Used in Plantations / backfilling
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	Nil	
4c	Number of dumps within lease area and outside lease area	Not Proposed	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed	Nil	
4e	Number of active & alive dumps	Not Proposed	Nil	
4f	Number of dead dumps	Not Proposed	Nil	
4g	Number of dumps stabilized	Not Proposed	Nil	

4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	Nil
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	Nil
4j	Number of settling ponds	Not Proposed	Nil
4k	Specific comments of inspecting officer	No solid waste generation.	

5.0 Solid Waste Management-Backfilling

S.No	Item	Proposals (2020-21)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not Proposed	Nil	
5b	Area under backfilling of mined out area	Not Proposed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not Proposed	Nil	
5d	Total area fully reclaimed & rehabilitated	Not Proposed	Nil	Water Logged
5e	General remarks of inspecting officer on backfilling, reclamation etc	As the area is almost opened up, there is no Top soil generation.		

6.0 Progressive Mine Closure Plan

S.No	Item	Proposals (2020-21)	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 item No. 8.3 of PMCP (approved on last occasion,	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	Proposal: (i) Nil (ii) 0.2 ha (iii) 300 (iv) 17360 (v) Nil (vi) Rs.2,80,000.00	Actual: (i) Nil (ii) Nil (iii) 30 (iv) 17390 (v) Nil (vi) Rs.2,80,354.00	

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	No back filling	No back filling	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No Proposal	Not Applicable	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Regular monitoring	Regular monitoring	
6f	General remarks of inspecting officer on PMCP compliance & progressive	PMCP return submitted as per time schedule		

7.0 Mineral Conservation

S.No	Item	Proposals (2020-21)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area (in tonnes)	Not Proposed	NA	
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	Entire ROM is used in the cement Plant		

8.0 Environment

S.No	Item	Proposals (2020-21)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Top Soil	No Top Soil	As the area is almost opened up, there is no Top soil generatio
8b	Concurrent use or storage of topsoil	Not Proposed	Some top soil also stored for future use.	

				n
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)	The ML area was barren Govt. Land with Few trees and some agriculture land.	The area developed with water reservoir pasture land and plantation.	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on Haul Road.	As per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The mine is having beautiful aesthetic beauty around lease area.		

9.0 Compliance of Rule 45

S.No	Item	COMMENTS		Remarks
.	Status of submission of Online Monthly and Annual returns	M.R. Submitted up to June 2021 A.R. submitted up to 2019-20		
S.No	Item	Details GIVEN in A.R	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Found in order	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. (Ha)	Yes	Found in order	

9d	Scrutiny of Annual return on afforestation	Yes	Found in order	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Yes	Found in order	
9f	Scrutiny of Annual return on ROM stock and/or graded ore (Tonne)	Yes	Found in order	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Yes	Found in order	
9i	Scrutiny of Annual return on fixed assets	Yes	Found in order	
9k	Scrutiny of Annual return on mining machineries	Yes	Found in order	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - During inspection of mines violation of Rule 11(1) found and sent to lessee for rectification of same within stipulated time.

Darshan Deep Bhardwaj
Senior Asst. Controller of Mines
