

## MCDR-MiFLOLST/47/2022-GNR-IBM\_RO\_GNR

## INSPECTION REPORT

I/2040/20221.0 GENERAL

S.N	Particulars	Details
1(a)	Name of the Mine	Gujarat Ambuja Limestone Mine (Survey No.44)
1(b)	Name of Inspecting Officer & Designation	G.Ram, DCOM
1(c)	Accompanying Mines Representatives	Mr.Praveen Singh, Mine Manager
1(d)	Type of Inspection	MCDR
1(e)	Date of Inspection	11.11.2022 AN
2	Total Lease Area (Ha),Non-forest and forest land	Non-Forest:108.9700 hectares, Forest: Nil
3	Mine code	38GUJ02008
4	IBM Regn. Number under rule 45 of MCDR, 2017	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: GirSomnath, State: Gujarat-362715, Tel.:(02795) 221137,232009, e.mailmd.office@ambujacement.com
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 <sup>th</sup> January, 1985
15	Date of Execution	16 April,1985
16	Date of opening of Mine	30 <sup>th</sup> 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, 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	<b>Ajay Kapoor</b> , (MD & CEO), M/s Ambuja Cements Ltd., Elegant Business Park, MIDC Cross Road 'B', Off Andheri – Kurla Road, Andheri (East), Mumbai-400 059. Tel.: 022 4066700, e.mail id. md.office@ambujacement.com, Appointment: 17/9/2022
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	<b>Mahesh Kr Jain</b> , M/s Ambuja Cements Limited , At & PO: Ambujanagar, Taluka: Kodinar, District: Gir Somnath, State:Gujarat- 362 715,Tel.: (02795) 221137, 232009Fax: (02795)220328,Appointment: 16/6/2022
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	<b>PraveenSingh, BE(Mining),FCC(R)</b> , M/s Ambuja Cements Limited ,At & PO: Ambujanagar, Taluka: Kodinar,District: Gir Somnath, Gujarat- 362 715, Date of appointment: 01/11/2022
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	<b>PraveenSingh, BE(Mining),FCC(R)</b> , M/s Ambuja Cements Limited ,At & PO: Ambujanagar, Taluka: Kodinar,District: Gir Somnath, Gujarat- 362 715, Date of appointment: 01/11/2022
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties	<b>Geologist-Not appointed, Violation under rule 55 pointed out.</b>
25	Date of Approval of MP/MMP with five-year period and specific condition in approval letter, if any.	No.682 (23) (370) /2005-Udp, dated 01-04-2005
26	Date of Approval of RMP with five-year period and specific condition in approval letter, if any.	684(4)(1)/MP-335(252)/2021-22 dated 16.8.2021 for 2021-22 to 2024-25
27	Mineral(s) granted in lease and proved for mining	Limestone and Marl.
28	Method of Mining(Open cast, Underground)	Open cast
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.N	Item	Proposals(2021-22)	Actual work	Remarks
1a	Backlog of previous year	NIL		
1b	Exploration over lease area for G-axis 1 or 2.	Not proposed	Not done	
1c	Exploration Agency & Exp. in lakh Rupees during the year	Not proposed	Not done	
1d	Balance area to be explored to bring G- axis in 1 or 2	Not Applicable, The deposit has been adequately explored		
1e	Balance reserves as on 01.04.2022 (in million)	Lst: 0.327,Marl:	Limestone: 1.995, Marl: 4.609	

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	<b>tonnes)</b>	2.606	
1f	General remarks of inspecting officer on geology, exploration etc.	Entire lease area is explored by way of worked out pits/Core drilling in G1/G2 level of exploration.	

**2.0 Development**

S.No.	Item	Proposals(2021-22)	Actual work	Remarks
2a	Location of development w.r.t. lease area	It was proposed to work in Pit no.2&5 as earmarked.	Partly worked in proposed pit No.2&6	
2b	Separate benches in topsoil, OB and mineral	No topsoil proposed	Not generated	
2c	Stripping ratio or ore to OB ratio	1:0.0	1:0.0	
2d	Quantity of topsoil generation in m3	Not proposed	Not generated	
2e	Quantity of overburden generation in m3	Not Proposed	Not generated	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The lease area is developed by various number mine pits, (quality of raw mix and plant requirement).		

**3.0 Exploitation**

S.No.	Item	Proposals(2021-22)	Actual work	Remarks
3a	Number of pits proposed for production	It was proposed to work in Pit no.2&5 as earmarked.	Partly worked in proposed pit No.2&6	
3b	Quantity of ROM mineral production proposed ( <b>in tonnes</b> )	<b>Limestone:</b> 100000T <b>Marl:</b> 50000T	<b>Limestone:</b> 13897T <b>Marl:</b> 0T	
3c	Recovery of saleable / usable mineral from ROM production	100%	100% mineral Utilized	Captive Use
3d	Quantity of mineral reject generation	No subgrade / mineral reject proposed & generated since entire ROM is utilising by way of sizing, sorting & blending.	Not generated, since entire ROM is utilising.	
3e	Grade of mineral reject generation and threshold value declared			
3f	Quantity of sub-grade mineral generation	Not Proposed	Not generated	
3g	Grade of sub-grade mineral generation	Not Proposed	Not generated	
3h	Manual / Mechanised method	Not Proposed	Not generated	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject.	Not Proposed	Not generated	
3j	Provision of drilling & blasting in benches	Not proposed	NIL	
3k	Provision of mining machine in mineral benches	Surface Minor, combination with Excavator & Loader	As per Proposal	
3l	Whether height of benches in OB and mineral suitable for method of mining proposed	No OB proposed	Not generated	
3m	Total area under excavation/pits	90.6296 Ha	88.50 Ha	
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-90.6296ha Others-7.92 Ha	Pit-88.4668ha Others-7.92 Ha	
3p	Production of ROM mineral during last five-year period, as applicable ( <b>in million tonnes</b> ) &	2018-19: 0.385 2019-20: 0.325 2020-21: 0.020 2021-22: 0.100 2022-23:0.100	2018-19: 0.045, 2019-20: 0.0 2020-21: 0.017843 2021-22:0.013897 2022-23:0.0 (Till Oct22)	Limestone-
		2018-19: 0.205, 2019-20: 0.06 2020-21: 0.06 2021-22:0.05 2022-23:0.05	2018-19: 0.0 2019-20: 0.0 2020-21: 0.0 2021-22:0.008225 2022-23:0.0 (Till Oct22)	Marl-
3q	General remarks of inspecting officer on method of mining etc.	Eco-friendly method of mining without drilling & blasting. Less Production due to rain water accumulation/plant requirement.		

**4.0 Solid Waste Management-Dumping**

S.No	Item	Proposals(2021-22)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject	Not Proposed	Nil	No OB/Waste proposed & generated
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	Not Proposed	Nil	

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4e	Number of active & alive dumps	Not Proposed	Nil	Topsoil quantity generated was utilised for plantation purposes only.
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	The lease area is devoid of OB/Waste generation, Hence no dump & entire ROM is utilises therefore no mineral rejects generated.		

**5.0 Solid Waste Management-Backfilling**

S.No.	Item	Proposals(2021-22)	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 36)	Not Proposed	Nil	
5d	Total area fully reclaimed & rehabilitated	Not Proposed	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Mined-out area after full extraction of mineral has been reclaimed /rehabilitated by means of Pasture Land /water reservoir.		

**6.0 Progressive Mine Closure Plan**

S.No.	Item	Proposals(2021-22)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly -	Annual return on PMCP under rule 26(2)	Submitted on	
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	<b>Proposal:</b> (i) Nil (ii) 0.2 ha (iii) 300 (iv) 17660 (v) Nil (vi) Rs.3,00,000	<b>Actual:</b> (i) Nil (ii) Nil (iii) Nil (iv) 17385 (v) Nil (vi) Rs.483,475	Violation under rule 11(1) pointed out.
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)	Periodical monitoring	Periodical monitoring	
6f	General remarks of inspecting officer on PMCP compliance & progressive	There are no OB/Waste generation. Hence no backfilling & reclamation proposed & not carried out.		

**7.0 Mineral Conservation**

S.No	Item	Proposals(2021-22)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area (in tonnes)	<b>Limestone:</b> 100000T <b>Marl:</b> 50000T	<b>Limestone:</b> 13897T <b>Marl:</b> 0T	Not done due to water accumulated in proposed pits.
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	As the entire limestone is being for the cement plant, there is no need for any beneficiation.		

**8.0 Environment**

S.No.	Item	Proposals(2021-22)	Actual work	Remarks
8a	Separate removal and utilization of topsoil	Not Proposed	Not done	As the area is almost opened up, there is no Top soil
8b	Concurrent use or storage of topsoil	Not Proposed	NIL	
8c	Separate dumps for OB, waste rock,	Not Proposed	NIL	

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	rejects and fines.			generation
8d	Use of OB, waste rock, rejects and fines dumps for restoring land to its original use	Not Proposed	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations	Not Proposed	NIL	
8f	Baseline information on existence of plantation & additional plantation done	Not Proposed	The area developed with water reservoir pasture land & plantation.	
8g	Survival rate	----	About 70%	
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 area is having aesthetic beauty and there is greenery all around the lease area and the cultivation is being practiced around the lease area.		

**9.0 Compliance of Rule 45**

S.No	Item	COMMENTS		Remarks
	Status of submission of Online Monthly and Annual returns	M.R. & A.R. submitted up to till date.		
S.No.	Item	Details GIVEN in A.R 2021-22	Observations	Violation pointed out under Rule 55(1)©(1)
9b	Scrutiny of Annual return for information on ME, Geologist and Manager	Details as per given in AR	ME-Praveen Singh, BE (Mi) & FCC & Geologist not appointed.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. (Ha)		O/C: 88.467 & Infra: 7.92 Others	
9d	Scrutiny of Annual return on afforestation		OML:10966	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)		Not generated.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore (Tonne)		Limestone: C/S-NIL Marl: C/s-262383T	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost		Rs. 152.56 Rs/T	
9i	Scrutiny of Annual return on fixed assets		--	
9k	Scrutiny of Annual return on mining machineries		Loader-1, surface miner-1, dozer-1, excavator-1, Tipper-5	

**10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:** Mine was inspected for star rating of mine & validation done (4Star). Presently violation of Rule 11(1), 55(1)(c)(1) of MCDR 2017 were observed & pointed out.

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