

INSPECTION REPORT

1.0 GENERAL

S.N	Particulars	Details
1(a)	Name of the Mine	Singsar Limestone Mine (Sy.No-Various)
1(b)	Name of Inspecting Officer & Designation	G.Ram, DCOM
1(c)	Accompanying Mines Representatives	Mr.Jiendra Kumawat, Mine Manager
1(d)	Type of Inspection	MCDR
1(e)	Date of Inspection	12.11.2022
2	Total Lease Area (Ha),Non-forest and forest land	728.1156ha{ Non-Forest: 704.4516ha (Agriculture Land), 16.0257ha (Gauchar Land) 7.6383 (Waste Land)} Forest: Nil
3	Mine code	38GUJ08351
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	Singsar, Barevla and Thordi
7	Taluka/Mandal	Sutrapada
8	District	Gir-Somnath
9	Pin code	362715
10	State	Gujarat
11	Post office	Sutrapada
12	Nearest police station	Sutrapada
13	Nearest Railway station	Veraval
14	Date of Grant of Mining Lease	18 th OCT'2011 (vide Order No.MCR-112000-644-CHH
15	Date of Execution	08 th December'2011
16	Date of opening of Mine	15 th January'2012
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable
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	Ajay Kapoor, (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	Mahesh Kr Jain, M/s Ambuja Cements Limited , At & PO: Ambujanagar, Taluka: Kodinar, District: Gir Somnath, State:Gujarat- 362 715, Tel.: (02795) 221137, 232009 Fax: (02795)220328,Appointment: 16/6/2022
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Jiendra Kumawat, BE(Mining),FCC(R), M/s Ambuja Cements Limited ,At & PO: Ambujanagar, Taluka: Kodinar,District: Gir Somnath, Gujarat- 362 715, Date of appointment: 01/8/2022
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Jiendra Kumawat, BE(Mining),FCC(R), M/s Ambuja Cements Limited ,At & PO: Ambujanagar, Taluka: Kodinar,District: Gir Somnath, Gujarat- 362 715, Date of appointment: 01/8/2022
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties	Ajay Kumar Jain, MSc (Geology), M/s Ambuja Cements Limited ,At & PO: Ambujanagar, Taluka: Kodinar,District: Gir Somnath, Gujarat-362 715, Date of appointment: 08/3/2018
25	Date of Approval of MP/MMP with five-year period and specific condition in approval letter, if any.	No.682 (23) (514) /2007-Udp, dated 27-04-2007
26	Date of Approval of RMP with five-year period and specific condition in approval letter, if any.	684(4)(1)/MP-311/2020-21 dated 29.1.2021 for 2021-22 to 2025-26
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)	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 tonnes)	Limestone reserves : 88.07 & resources 164.87		
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. (above water table)		

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 block no.IV, V, VI, VIII as earmarked.	Partly worked in proposed area	Legging in ROM
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	349526M3	189840m3	
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 block no.IV, V, VI, VIII as earmarked.	Partly worked in proposed area	Legging in ROM
3b	Quantity of ROM mineral production proposed (in tonnes)	Limestone: 3.0million Tonne	Limestone: 18,69,010T	
3c	Recovery of saleable / usable mineral from ROM production	100%	100% 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 benches	Surface Minor,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	262. Ha in plan period	163.618 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-163.61ha, Rec.-16.43Ha, Inf-4.495 Ha	Pit-163.61ha,Rec.-16.43Ha,Inf-4.495 Ha	
3p	Production of ROM mineral during last five-year period, as applicable (in million tonnes)	2018-19: 3.0 2019-20: 3.0 2020-21: 3.0 2021-22: 3.0 2022-23: 3.0	2018-19: 2.456, 2019-20: 2.66 2020-21: 1.476 2021-22:1.869 2022-23:0.7808 (Till Oct22)	Legging in ROM
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 Topsoil quantity generated was utilised for plantation purposes only.
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	
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	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)	Yes, Submitted with in time.	
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) 3000 (iv) 0 (v) Nil (vi) Rs.10500000	Actual: (i) Nil (ii) Nil (iii) Nil (OML-1852) (iv) 17385 (v) Nil (vi) Rs.554213	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	16.43ha (Development of agro farm/pasture land	
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)	Limestone: 3.0million Tonne	Limestone: 18,69,010T	
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	
8b	Concurrent use or storage of topsoil	Not Proposed	NIL	
8c	Separate dumps for OB, waste rock, rejects and fines.	Not Proposed	NIL	
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.(AR-21.6.2022)		
S.No.	Item	Details GIVEN in A.R 2021-22	Observations	
9b	Scrutiny of Annual return for information on ME, Geologist and Manager	Details as per given in AR	ME-Jitendra Kumawat, BE (Mi) & FCC & Geologist –AK Jain	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. (Ha)		Mining: 171 & Infra: 4.49Ha Rec.-16.431Ha,Others	
9d	Scrutiny of Annual return on afforestation		OML:1852, MLarea-0	
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 Production & Dispatch-1869010T, C/S-0T	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost		Ex Mine-Rs. 201.47 Rs/T	
9i	Scrutiny of Annual return on fixed assets		--As per Annual Return	
9k	Scrutiny of Annual return on mining machineries		Loader-2, surface miner-2, dozer-1, excavator-2, Tipper-40	

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) of MCDR 2017 were observed & pointed out.
