

INSPECTION REPORT

I/22675/2023

1.0 GENERAL

S. No.	Particulars	Details
1	Name of the Mine	RKBA Limestone & Marl Mine (having Various Survey Numbers)
1(a)	Inspecting Officer	Sunil Kumar Sharma, Sr. Assistant Controller of Mines
1(b)	Date of Inspection	03.09.2023
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	310.3290 ha { Non-Forest: 278.7937ha (Agriculture Land), 31.5353ha (Grazing Land)} Forest: Nil
3	Mine Code	38GUJ08338
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/447/201
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: ceo.cementbusiness@adani.com
6	Villages	Rampara-Kukras-Bhetali-Anandpara
7	Taluka/Mandal	Veraval & Sutrapara
8	District	Gir-Somnath
9	Pincode	362 715
10	State	Gujarat
11	Post Office	Rampara
12	Nearest Police Station	Patan & Sutrapada
13	Nearest Railway Station	Veraval
14	Date of Grant of Mining Lease	27 th May'2005 (vide Order No. MCR-1599-1619-CHH)
15	Date of Execution	05 th September'2005
16	Date of opening of Mine	04 th October' 2005
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. Elegant Business Park, MIDC Cross Road 'B', Off Andheri-Kurla Road, Andheri (East), Mumbai-400 059. Tel. #: 022 4066700, Fax #: 079 2555 5555 e.mail id: ceo.cementbusiness@adani.com

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21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	<p>Date of appointment: 17/09/2022</p> <p>Shri Mahesh Kumar Jain M/s Ambuja Cements Limited, At & PO: Ambujanagar, Taluka: Kodinar, District: Gir Somnath, State: Gujarat- 362 715 Tel. # : (02795) 237011 Fax # :02795) 220328, 232032 e.mail id: maheshkumar.jain@adani.com Date of appointment: 16/06/2022</p>
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	<p>Shri Mahendra Singh Meratia M/s Ambuja Cements Limited, At & PO: Ambujanagar, Taluka: Kodinar, District: Gir Somnath, State: Gujarat- 362 715 Tel. #: (02795) 237210. e.mail id.: mahendrasingh.meratia@adani.com Date of appointment: 01/08/2022</p>
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	<p>Shri Mahendra Singh Meratia Qualification - B E Mining Total experience -20 years M/s Ambuja Cements Limited, At & PO: Ambujanagar, Taluka: Kodinar, District: Gir Somnath, State: Gujarat- 362 715 Tel. #: (02795) 237210. e.mail id.: mahendrasingh.meratia@adani.com Date of appointment in mines 01/08/2022</p>
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	<p>Shri Siddharth Ranjan Qualification – M.Sc. Geology Total experience -15 years M/s Ambuja Cements Limited, Address-At & PO: Ambujanagar, Taluka: Kodinar, District: Gir Somnath, State: Gujarat- 362 715 Tel. # : (02795) 237210. e.mail id.: siddharth.ranjan@adani.com Date of appointment in mines 26/11/2022</p>
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	<p>The Mining Plan of RKBA Limestone & Marl Mine {(having Various Survey Nos.), Area: 310.3210 hectares} was approved by Controller of Mines (NZ) Ajmer vides Letter No.682 (23) (143)/2001 – Udp, dated 28th January, 2002 for the grant of Mining Lease.</p> <p>Progressive Mine Closure Plans (component of approved Mining Plan) of the area under reference was approved by Controller of Mines (NZ) vides Letter No.682 (23) CLP-40/2004-Udp, dated 05th January, 2005.</p> <p>Due to the lease area discrepancy, Modified Mining Plan was submitted to IBM and same was approved by Controller of Mines (NZ) vides Letter No.682 (23) (431) /2005-Udp, dated 06th February, 2006 for the 1.0 MTPA production level Planning.</p> <p>Further modifications in the approved Modified Mining Plan/Modifications were proposed for increase in the production from the lease from 1.0 MTPA to 2.0 MTPA. The Modified Mining Plan along with Progressive Mine Closure Plan for the capacity expansion of the RKBA ML was submitted</p>

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		to IBM and same was approved by Controller of Mines (NZ) vide Letter No.682 (23) (446) /2006-Udp, dated 16 th June, 2006 for the 2.0 MTPA productions level planning.
26	Date of Approval of review of mining plan/Modified review of mining plan with five-year period and specific condition in approval letter, if any.	Review of Mining plan with PMCP was Approved vide Letter No. 684(4)(1)/MP-251/2019-20 GNR , Dated the 21 st November, 2019.
27	Mineral(s) granted in lease and proved for mining	Limestone & Marl are included in the Lease deed. Applicant intends to mine only 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	The deposit has been adequately explored.	Not Applicable	
1b	Exploration over lease area for Geological axis 1 or 2.	Not Proposed	Done up to G1 level and completed in 2016.	-
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	Not remaining area for exploration.	Not Applicable	-
1e	Balance reserves as on 01.04.2022 (in million tonnes) .	Reserves (111) of Limestone (as on 01/04/2022): 07.90 million tonnes.	Reserves (111) of Limestone (as on 01/04/2023): 05.95 million tonnes.	-
1f	General remarks of inspecting officer on geology, exploration etc.	Whole lease area have been explored in G1 Category.		

2.0 Development

S. No.	Item	Proposals (2022-23)	Actual work	Remarks
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2a	Location of development w.r.t. lease area	During the year 2022 -23, The development work has been proposed under the following: (Extension of Pit No.-10,12, 14, 17 & Fresh)	Extension of Pit No.-10,12, 14, 17 & Fresh	-
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Efforts shall be made to recover layer of soil, it shall be scrapped in separate slice and kept preserved for utilization in plantation work.	Separate bench maintained for overburden and top soil but it is found in only 2 pits.	-
2c	Stripping ratio or ore to OB ratio	Limestone deposit is simple and free from any overburden.	Stripping ratio or ore to OB ratio is nil.	-
2d	Quantity of topsoil generation in m ³	0 m ³	7517 m ³	-
2e	Quantity of overburden generation in m ³	35136 m ³	4082 m ³	-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Due to rainy season, Bottom bench of pits was full with rainy water in the Pit No.-10,12, and 14. Mineral were dispatching from stacks.		

3.0 Exploitation

S.No	Item	Proposals (2022-23)	Actual work	Remarks
3a	Number of pits proposed for production	4 pits was proposed	As per proposal	-
3b	Quantity of ROM mineral production proposed	2.00 million tonnes	1.999566 million tonnes	-
3c	Recovery of saleable/usable mineral from ROM production	Estimate recovery of saleable / useable mineral from ROM is 85%	Estimate recovery of saleable / useable mineral from ROM is 85%	-
3d	Quantity of mineral reject generation	Quantity of mineral reject generation is nil	Quantity of mineral reject generation is nil	-
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 / Mechanised method adopted for segregating from ROM	Not Proposed	Not Applicable.	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and	Not Proposed	Not Applicable.	-

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	reject.			
3j	Provision of drilling & blasting in mineral benches	Mining deposit is sedimentary deposit. Only Surface Miner is used for windrowing of material.	Not Applicable.	-
3k	Provision of mining machineries in mineral benches	SURFACE MINER 900 HP -1,SURFACE MINER 610 HP- 1,FRONT END LOADER 5.0 CUM- 1, FRONT END LOADER 3.5 CUM - 1,DOZER 410HP- 1, MOTOR GRADER 160 HP- 1,TIPPER 21 CUM- 33,TIPPER 21CUM- 10	Surface Miner is being utilized for excavation. Front End Loader 5.0 Cum- 1, Front End Loader 3.5 Cum -1,Dozer 410hp- 1, Motor Grader 160 Hp- 1,Tipper 21 Cum- 33,Tipper 21cum- 10	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No Overburden	Not Applicable	-
3m	Total area covered under excavation/pits	227.9643 Ha	212.997 Ha	-
3n	Ore to OB ratio for the pit/ mine during the year	No Overburden	Not Applicable	-
3o	Total area put in use under different heads at the end of year	Pit- 212.997 Ha along with existing Pits (O/c) Reclaimed- 47.930 Waste/ reject:0.000ha Others:1.18 Ha Afforestation-2.00 ha	Pit-212.997 Ha along with existing Pits (O/ c) Reclaimed-47.930 Waste/ reject:0.000ha Others:0.963 Ha Afforestation-1.74 ha	-
3p	Production of ROM mineral during last five-year period, as applicable (In Million Tonne)	Proposal (2018-19)=1715431 (2019-20)=1208327 (2020-21)=2000000 (2021-22)=2000000 (2022-23)=2000000	Compliance Position (2018-19)=1774336 (2019-20)=1205207 (2020-21)=1851107 (2021-22)=1999555 (2022-23)=1999566	-
3q	General remarks of inspecting officer on method of mining etc.	Due to rainy season, Bottom bench of pits was full with rainy water in the Pit No.-10,12, and 14. Mineral were dispatching from stacks.		

4.0 Solid Waste Management-Dumping

S.No	Item	Proposals (2022-23)	Actual work	Remarks
4a	Separate dumping of	Separate top soil to	As per	-

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	topsoil, OB & mineral reject (Rule 32, 33)	be stacked for further use.	proposal	
4b	Location of topsoil, OB & mineral reject dumps	Not Applicable	Not Applicable	-
4c	Number of dumps within lease area and outside lease area	Not Applicable	Not Applicable	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Applicable	Not Applicable	-
4e	Number of active & alive dumps	Not Applicable	Not Applicable	-
4f	Number of dead dumps	Not Applicable	Not Applicable	-
4g	Number of dumps stabilized	Not Applicable	Not Applicable	-
4h	Whether Retaining wall or garland drain all along dumps are there	Not Applicable	Not Applicable	-
4i	Length of Retaining wall or garland drain all along dump	Not Applicable	Not Applicable	-
4j	Number of settling ponds.	Not Applicable	Not Applicable	-
4k	Specific comments of inspecting officer.	No overburden was observed in the benches of existing pits.		

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	No Proposal	Not Applicable	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Total 0 m ³ top soil would be removed separately and concurrently utilizes for development of Pasture Land/Agri-farming.	Total 7517 m ³ top soil would be removed separately and concurrently utilizes for development of Pasture Land/Agri-farming.	-
5d	Total area fully reclaimed & rehabilitated	No Proposal	Not Applicable	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	There are no OB/Waste generation. Hence no backfilling & reclamation proposed & not carried out.		

6.0 Progressive Mine Closure Plan

S.No.	Item	Proposals (2022-23)	Actual work	Remarks
6a	Whether Annual report	Yes	Yes	-

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	on PMCP submitted on time and correctly - Rule 23E(2).			
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) 2.0000 ha (iii) 2000 (iv) 25820 (v) Nil (vi) Rs.68,98,837/-	Actual: (i) Nil (ii) 1.74 Ha. (iii) 2179 (iv) 17150 (v) Nil (vi) Rs. 3793171/-	-
6	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	i) Pit-7 ii) 35136 iii) Nil iv) Nil v) Nil	i) Pit-7 (925x140x1.8) ii) 8164 iii) Nil iv) Nil v) Nil	-
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 report is submitted with in stipulated time.		

7.0 Mineral Conservation

S.No.	Item	Proposals (2022-23)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No Sorting	No Sorting	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No Sorting	No Sorting	-
7c	Different grade of	No Sorting	No Sorting	-

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	mineral sorted out at mines			
7d	Any beneficiation process at mines	No Sorting	No Sorting	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No proposal in the Mining Plan.		

8.0 Environment

S.No.	Item	Proposals (2022-23)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Total 0 m ³ top soil would be removed separately.	Total 7517 m ³ top soil would be removed & Use for plantation.	-
8b	Concurrent use or storage of topsoil	Top Soil shall be concurrently utilizes for development of Pasture Land/Agri-farming	Top Soil is concurrently utilized for development of Pasture Land/Agri-farming.	-
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)	It was majorly agriculture land with few trees and barren land.	It was majorly agriculture land with few trees and barren land.	-
8g	Survival rate	Survival Rate: 70%	No. of saplings survived: 1525 (@ 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 regularly carried out.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Plantation work was carried out as per approved mining plan.		

9.0 Compliance of Rule 45

S.No.	Item	COMMENTS	Remarks
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	Status of submission of Online Monthly and Annual returns	M.R. Submitted upto Aug.2023 A.R. submitted upto 2022-23.	-
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S.No.	Item	Details GIVEN in A.R.(2022-23)	Observation of I/Officer /Actual reported in Returns	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Mahendra Singh Meratia	M.R. & A.R. submitted with in time for the year 2021-22	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit-212.997 Ha along with existing Pits (O/c) Reclaimed-47.930 Waste/reject:0.000ha Infrastructure-0.963ha PMCP-1.74 ha	Details are given in Annual Return	Nil
9d	Scrutiny of Annual return on afforestation	WML-2179, OML-1172	Details are given in Annual Return	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NIL	Details are given in Annual Return	No mineral rejects available in mines. 100% of mineral utilised with proper blending.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	FOR 2022-23-1999566	Details are given in Annual Return	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Rs.-194.03	Details are given in Annual Return	No sales is done. Mineral is used for captive purpose for manufacturing of cement. Hence no sale value is given.
9i	Scrutiny of Annual return on fixed assets	Rs.-542379475/-	Details are given in Annual Return	Nil
9k	Scrutiny of Annual return on mining machineries	Surface miner-02, Loader-2, Dozer-01,	Details are given in Annual Return	As per the proposal of mining plan mining machinery is deployed.

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		Motor Grader- 01 Tipper-43		
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10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

Presently mine was inspected for MCDR/Star Rating & Online star rating evaluation done (5Star). Presently no significant violation observed & pointed out.

(Sunil Sharma)

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भारतीय खान ब्यूरो
