

निरीक्षण रिपोर्ट / MCDR INSPECTION REPORT

Date of Inspection- 08.01.2025

1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Kashlog Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total area: 469 ha. Forest area: 122.18 ha. Private area: 346.82 ha.
2a	Date of Inspection	08.01.2025
3	Minocode	38HPR11002
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 Ltd. Ambuja Cements Limited Adani Corporate House, Shantigram,Khodiyar, S. G.Highway, Ahmedabad - 382 421, Gujarat. ceo.cementbusiness@adani.com
6	Village	Kashlog
7	Taluka/Mandal	Arki
8	District	Solan
9	Pincode	171 102
10	State	Himachal Pradesh
11	Post office	Darlaghat
12	Nearest police station	Darlaghat
13	Nearest Railway station	Solan
14	Date of Grant of Mining Lease	05-05-1992
15	Date of Execution	28-05-1992
16	Date of opening of Mine	04-08-1993
17	Date of first Renewal, if applicable and its period & expiry	28-05-2012 Period: 20 yrs. Valid: 27-05-2032 Validity extended upto 27-05-2042 as per MMDR(A) Ordinance, 2015 vide State Govt. letter dated 28-05-2015
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. Ajay Kapur,CEO, Owner-Mines Ambuja Cements Limited Adani Corporate House, Shantigram,Khodiyar, S. G.Highway, Ahmedabad - 382 421, Gujarat. ceo.cementbusiness@adani.com 9898506081

		Date of appointment: 17-09-2022
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sh. Mukesh Saxena M/s Ambuja Cements Ltd. P.O. Darlaghat, Tehsil Arki, Distt. Solan, Himachal Pradesh - 171 102. Phone: Date of appointment: 26.03.2024
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sh. Manoj Verma, M/s Ambuja Cements Ltd. P.O. Darlaghat, Tehsil Arki, Distt. Solan, Himachal Pradesh - 171 102. Phone: 9816401238 Email: manoj.verma@adani.com Fax: 01796 248335 Date of appointment:
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sh. Mukesh Kumar, M/s Ambuja Cements Ltd. P.O. Darlaghat, Tehsil Arki, Distt. Solan, Himachal Pradesh - 171 102. Phone: 8511291032 Email: mukesh.kumar29@adani.com Fax: 01796 248335 Date of appointment: 26-05-2021
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Letter no. 614(2)/MP-A-182/09-DDN, 19.12.2021
27	Mineral(s) granted in lease and proved for mining	Limestone & Shale
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

SN	Item	Proposals (2023-24)	Actual work	Remarks
1a	Backlog of previous year	Nil	NIL	
1b	Exploration over lease area for Geological axis 1 or 2.	G1-252 Ha. G2-0 Ha. G3-18 Ha. Non-mineralized -199 Ha.	Entire Limestone mineralised area of 270 Ha.has been explored upto G1 Non-mineralized -199 Ha.	Shale Area is 199 hectare
1c	Exploration Agency & Expenditure in lakh Rupees during the year	As per proposal	As per proposal	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserves as on 01.04.2021.	Reserves reassessed as on 01-09-2021 Limestone(111): 302.50 million tonnes Shale(111): 36.40 million tonnes	Depletion 1/9/2021 to 31/3/2024 Lst 13614800 T Shale 1512300 T Balance reserves: Lst 288.89 million tonnes Shale : 34.49 million tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	Shale bearing area may be explored as per requirement.		

2.0 Development

SN	Item	Proposals (2023-24)	Actual work	Remarks
2a	Location of development w.r.t. lease area	The working was proposed in both Kashlog & Mangu block in two separate pits.	The work was undertaken broadly as per proposal. Kashlog mine pit is near exhaustion whereas work has been done predominantly in Mangu block.	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No proposal incorporated.	The shale intrusions are visible in exposed benches in Kashlog block.	
2c	Stripping ratio or ore to OB ratio	Nil	Nil	
2d	Quantity of topsoil generation in m3	Negligible generation proposed	NIL reported	
2e	Quantity of overburden	Nil	Nil	

	generation in m3		
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.		

3.0 Exploitation

SN	Item	Proposals (2023-24)	Actual work	Remarks
3a	Number of pits proposed for production	2 nos.	2 nos.	
3b	Quantity of mineral production proposed (Limestone + Shale)	Limestone:7068665 MT Shale:530640 MT	Limestone: 5859900 MT Shale: 1131100 MT	E.C Capacity of the mine is 7.6 million tonnes. As per mining plan Excess shale has been produced & lessee has committed for modification in mining plan, which is to be submitted shortly.
3c	Recovery of salable/ usable mineral from ROM production	100% Limestone is proposed to be used.	100% Limestone is useable.	However the entire shale can not be consumed & has been stacked separately.
3d	Quantity of mineral reject generation	238700 T of excess shale is proposed to be produced & stacked separately.	1131100 T shale produced & 651100 has been despatched for use . Remaining has been stacked as waste	
3e	Grade of mineral reject generation and threshold value declared	N.A	N.A	
3f	Quantity of sub-grade mineral generation	No subgrade limestone generation proposed.	No subgrade limestone generated.	However the excess shale has been stacked separately.
3g	Grade of sub-grade mineral generation	Not applicable	Not applicable	.
3h	Manual / Mechanised method adopted for segregating from ROM	NO proposal	Visual segregation is done in Kashlog block only.	
3i	Any analysis or beneficiation study proposed & carried out for	Nil	Nil	

	sub-grade mineral and reject			
3j	Provision of drilling & blasting in mineral benches	Conventional method of drilling & blasting with down the hole drill machine of 150 mm dia. size.	Conventional method of drilling & blasting with down the hole drill machine of 150 mm dia. size.	
3k	Provision of mining machineries in mineral benches	Hydraulic excavators and dumpers will be used for loading and transporting blasted material.	Hydraulic excavators and dumpers are used for loading and transporting blasted material.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	115.9 hectare by 2023-24	113.25 ha is under excavation.	
3n	Ore to OB ratio for the pit/mine during the year	Nil	Nil	
3o	Total area put in use under different heads at the end of year	Excavation: 112.66 ha. OB/waste/dump: 3.25 ha.. Infrastructure and Roads: 14.680 ha. .	Excavation: 109.25 ha. OB/waste/dump: 1.750ha. Infrastructure and Roads: 14.440 ha. Green belt/Plantation: 16.45 ha.	
3p	Production of Limestone & Shale during last five-year period, as applicable	2018-19: Limestone: 6840000 MT Shale: 760000 MT 2019-20: Limestone: 6840000 MT Shale: 760000 MT 2020-21: Limestone: 6840000 MT Shale: 760000 MT 2021-22 Limestone: 6840000 MT Shale: 760000 MT 2022-23 Limestone: 6840535 MT Shale: 998100 MT	2018-19: Limestone: 4868850 MT Shale: 527200 MT 2019-20: Limestone: 5148700 MT Shale: 567200 MT 2020-21: Limestone: 5882800 MT Shale: 651800 MT 2021-22: Limestone: 5931000 MT Shale: 658100 MT 2022-23 Limestone: 4643800 MT Shale: 515900 MT	

		2023-24 Limestone: 7068665 MT Shale: 530640 MT	2023-24 Limestone: 5859900 MT Shale: 1131100 MT	
3q	General remarks of inspecting officer on method of mining etc.	Violation has been pointed out during the last inspection for excess shale production and lessee has replied that action is being taken for modification in proposal. The shale is being stacked separately by lessee as it is reportedly not having any other use except for its limited use in cement industry.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2023-24)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate stacking of Shale proposed	Excess Shale which is not useable is stocked as mineral reject.	
4b	Location of topsoil, OB & mineral reject dumps	Dumps were proposed within UPL both in Kashlog & Mangu Block.	Dumping done at the proposed sites only. Around location N 3458705-N 3459126, E 687000- E 687254 in Mangu Block.	
4c	Number of dumps within lease area and outside lease area	Kashlog Block: one existing dump is there to the south of Kashlog block & one dump in the eastern part if lease.	Dumping is done as per proposal in both kashlog & Mangu Block.	In Kashlog scattered mineral dumps have also been observed.

		Mangu Block: One dumps is there.		
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)		Within UPL	
4e	Number of active & alive dumps	3	3	
4f	Number of dead dumps	-	-	
4g	Number of dumps stabilised	-	-	
4h	Whether Retaining wall or garland drain all along dumps are there		Provided in the dump at Mangu Block.	
4i	Length of Retaining wall or garland drain all along dump	proposed in 2023-24	Undertaken in Mangu block as per proposal.	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer			

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2023-24)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Not done	
5b	Area under backfilling of mined out area	No proposal	Not done	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Negligible generation of top soil	No generation reported	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc			

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2023-24)	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 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	No proposal	Not done	Action for plantation may be one on part of pit in Kashlog block.

	iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year			
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 proposal	Not done	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	2500	5000 saplings have planted over 2 hectare area.	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed	Monitoring is carried out.	
6f	General remarks of inspecting officer on PMCP compliance & progressive			

7.0 Mineral Conservation

SN	Item	Proposals (2021-22)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Limestone & Shale is dispatched to cement plant.	Limestone & Shale is dispatched to cement plant. Excess shale generated is stacked / dumped.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not applicable	Visual segregation of shale & LimeStone is done in Kashlog block	
7c	Different grade of mineral sorted out at mines	Not applicable	Not applicable	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues			

8.0 Environment

SN	Item	Proposals (2021-22)	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Negligible/ Nil generation proposed	Not generated	
8b	Concurrent use or storage of topsoil	Not applicable	Not done.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump of OB reported	Done as per proposal.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Not done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not done	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	2500 saplings over 2 hectare	5000 sapling over 2 hectare.	
8g	Survival rate	80%	70%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			

9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto Dec 2022 A.R. submitted upto 2023-24	

S.N	Item	Details given in AR (2023-24)	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information submitted	Mining Engineer & Geologist appointed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Information submitted	Broadly as reported	
9d	Scrutiny of Annual return on Afforestation	Information	Broadly as reported	

		submitted		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Information submitted	As reported	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Limestone ROM- 5859900 T Shale ROM- 1131100 T	As reported	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Information submitted	As reported	EMP LSt 224/- PMT & Shale 200.86/- PMT
9i	Scrutiny of Annual return on fixed assets	Information submitted	As reported	
9k	Scrutiny of Annual return on mining machineries	Information submitted	As reported	

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