

MCDR INSPECTION REPORT**General**

SN	Particulars	Details
1(a)	Name of the Mine	Babarkot Limestone Mine-II (Jafarabad ML 738)
1(b)	Name of Inspecting Officer & Designation	Dr.DebajyotiNayak, JMG
1(c)	Accompanying Mines Representatives	Mr. Rajendra Kumar Goyal, B.E. Mining
1(d)	Type of Inspection	Star Rating/SDF
1(e)	Date of Inspection	19.12.2024
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total ML area -14.2045 Ha. Forest land -0 Non-Forest land – 14.2045 Ha.
3	Mine code	38GUJ02017
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/ 441/2011
5	Name of the lessee, Address, phone, email and fax number	M/s. UltraTech Cement Limited, Narmada Cement- Jafarabad works P.B. No: 10, Jafarabad – 365 540, Dist. Amreli, Gujarat Tel: (02794) 245105 / 145113 / 245121 Fax: (02794) 245109 / 245110.
6	Village	Babarkot
7	Taluka/Mandal	Jafarabad
8	District	Amreli
9	Pin code	365540
10	State	Gujarat
11	Post office	Jafarabad
12	Nearest police station	Jafarabad
13	Nearest Railway station	Rajula- Junction
14	Date of Grant of Mining Lease	08.01.2017
15	Date of Execution	11.01.2017
16	Date of opening of Mine	02.12.2020
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	Mr. K.C. Jhanwar UltraTech Cement Limited, Ahura Centre, “B” Wing, 2 nd Floor, Mahakali Caves Road, Andheri (E), Mumbai – 400093, Phone No.: (022) – 66917800 E-Mail: - occupierutcl@adityabirla.com Fax: - 02794 – 245357 Date of appointment - 09.11.2018
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Rajendra Kumar Goyal, B.E. Mining with FCC (R) Narmada Cement- Jafarabad Works Village – Babarkot Taluka – Jafarabad

		Dist. – Amreli 365540 Mobile – 8003895390 Email- rajendra.goyal@adityabirla.com Date of Appointment – 21.10.2019.
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Thakar Chintan Kumar Hitesh Bhai, B.E. Mining with FCC (R) Narmada Cement- Jafarabad Works Village – Babarkot Taluka – Jafarabad Dist. – Amreli 365540 Mobile – 9826429066 Email- Chintan.thakkar@adityabirla.com Date of Appointment – 08.11.2024.
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Thakar Chintan Kumar Hitesh Bhai B.E. Mining Narmada Cement- Jafarabad Works Village – Babarkot Taluka – Jafarabad Dist. – Amreli 365540 Mobile – 9574211176 Email- Chintan.Thakar@adityabirla.com Date of Appointment – 08.11.2024 B.E. (Mining Engineer) Experience – 11 years
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 &57.	Geologist appointed: Mr Arvind Singh Rathore, M.Sc. Geology Date of appointment: - 27.06.2023
25	Date of Approval of Mining Plan/Modified Mining Plan /Review of Mine Plan with five-year period and specific condition in approval letter, if any.	Mine Plan: 684(4)(1)/MP-26/2017/GNR, Approval Date: 31.05.2017 Period from 2016-17 to 2020-21 Review of Mine Plan: 684(4)(1)/MP-296/2020-21- GNR, Approval Date: 13.01.2021 Period from 2021-22 to 2025-26
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Not Applicable
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. –

1.0 Exploration

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	No backlog	Nil	No backlog of previous year in exploration
1b	Exploration over lease area for Geological axis 1 or 2.	Not Proposed	Nil	No exploration activities carried out during 2023-24
1c	Exploration Agency & Expenditure in lakh Rupees	No Proposal in approved mining	Nil	

	during the year	plan.		
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	NIL	The lease area has been explored in G1 level
1e	Balance reserves as on 01.04.2024	Balance reserves : 111-1486362 121-97500 122-94500 Tonne		
1f	General remarks of inspecting officer on geology, exploration etc.	The mine did not have any proposal for exploration activities during 2023-24, as the mine has been explored at the G1 level.		

2.0 Development

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	Pit-1 at EW174 to 460 NS60 to 418	Pit-1, 42 Q 750072.28 m E 2310718.93 m N	Location of development: 42 Q 750072.28 m E 2310718.93 m N No deviation from proposed location.
2b	Separate benches in topsoil, overburden(OB) and mineral (Rule 15)	01 No.of benches proposed in mineral. No proposal of benches in topsoil and overburden	01 No.of benches made in mineral for development work.	Since the overburden (OB) consists of windblown loose sand, there is no proposal to make benches in the OB.
2c	Stripping ratio or ore to OB ratio	1:0.10	1:0.86	
2d	Quantity of topsoil generation in m ³	Not proposed	Not Applicable	
2e	Quantity of overburden generation in m ³	11785m ³	11771m ³	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development works were carried out by using surface miner, loader, and dumper. The bench height was about 5m, and the slope was around 80-degree angles. The limestone formation is overlain by overburden which is loose sand of an average thickness of about 0.85 meters.		

3.0 Exploitation

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	One (Pit-1)	Pit-1	No deviation from proposal.
3b	Quantity of ROM mineral production proposed	109426 Tonnes	13638 Tonnes	Production & dispatched stored in FY-2023-24
3c	Recovery of saleable/usable mineral from ROM production	100% of recovery	100% utilization	
3d	Quantity of mineral reject generation	Not proposed	Not Applicable	
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	

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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 reject	Not proposed		Not Applicable		
3j	Provision of drilling & blasting in mineral benches	No proposal of drilling & blasting in mineral benches		Not Applicable		
3k	Provision of mining machineries in mineral benches	Surface miner, Loader, dumper, tipper & dozer is proposed.		Surface miner, Loader, dumper, tipper & dozer is used.		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed Bench height-6 meter, width of benches 4.5 m to 6.0 m in mineral. No proposal of benches in overburden.		The actual bench height is 5 meters in mineral. The width of the benches is not applicable at this time because only one bench has been developed. The mentioned parameters are suitable for the method of mining proposed in the Review of Mining Plan (MP).		
3m	Total area covered under excavation/pits in Ha	Total area covered in excavation is 1.6835 Ha		Covered under current (O-C) workings is 0.330 Ha.		Production started in FY-2023-24
3n	Ore to OB ratio for the pit/ mine during the year	1:0.10		1:0.86		
3o	Total area put in use under different heads at the end of year	Under mining-1.6835Ha. Storage of OB sand - 0.20 Infrastructure, haul roads-0.26 Ha. Plantation/Green belt development-0.25Ha.		Under mining-0.33Ha. Plantation/Green belt development-0.2 Ha.		The areas used under mine roads and waste/overburden (OB) disposal were not reported in the Annual Return (AR) 2023-24, which has resulted in a violation of Rule 45(5)(c) read with 45(7).
3p	Production of ROM mineral during last five-year period, as applicable in MT	2019-20	0.055	2019-20	Nil	Production started in FY-2023-24.
		2020-21	0.138	2020-21	Nil	

		2021-22	0.033914	2021-22	Nil
		2022-23	0.065005	2022-23	Nil
		2023-24	0.109426	2023-24	0.013638
3q	General remarks of inspecting officer on method of mining etc.	The working method involves open-cast mining, where in-situ rocks (minerals) are loosened using a surface miner. The ore extraction process is carried out utilizing equipment such as surface miners, loaders, dozers, and dumpers. No provisions have been made for drilling or blasting. The exploitation was conducted in pit-1, achieving a Run-of-Mine (ROM) production of 13,638 tonnes with 100% recovery. The production work commenced in the fiscal year 2023-24. This mine does not have any proposals for producing sub-grade minerals or rejects, as it only contains saleable ore of cement grade. The areas used under mine roads and waste/overburden (OB) disposal were not reported in the Annual Return (AR) for 2023-24, which has resulted in a violation of Rule 45(5)(c) read with 45(7).			

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No proposal for separate dumping of topsoil & mineral reject. The OB is proposed to outspread along the statutory barrier of ML boundary	The OB utilised to outspread along the statutory barrier of ML boundary	Total 11771m ³ of OB generated as loose sand during 2023-24, which utilised to outspread along the statutory barrier of ML boundary for plantation purpose.
4b	Location of topsoil, OB & mineral reject dumps	No proposal for topsoil & mineral reject, but OB is proposed to outspread along the statutory barrier of ML boundary	The OB utilised to outspread along the statutory barrier of ML boundary	
4c	Number of dumps within lease area and outside lease area	No proposal	Not Applicable	
4d	Location of dumps w.r.t. ultimate pit limit	No proposal	Not Applicable	
4e	Number of active & alive dumps	No proposal	Not Applicable	
4f	Number of dead dumps	No proposal	Not Applicable	
4g	Number of dumps stabilised	No proposal	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Not Applicable	
4i	Length of Retaining wall or garland drain all along dump	No proposal	Not Applicable	
4j	Number of settling ponds	No proposal	Not Applicable	
4k	Specific comments of	As the mine does not have any top-soil and mineral reject so,		

	inspecting officer	no proposal for the same given. Total 11771m ³ of OB generated as loose sand during 2023-24, which utilised to outspread along the statutory barrier of ML boundary, this area was subsequently used for plantation.
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5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Proposed to full extraction of mineral from mined out area. Backfilling not proposed	Not Applicable	No reclamation and rehabilitation by backfilling were carried out in 2023-24.
5b	Area under backfilling of mined out area	No backfilling proposed	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	Not Applicable	
5d	Total area fully reclaimed & rehabilitated	Not proposed	Not Applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No reclamation and rehabilitation by backfilling were carried out in 2023-24.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). Details should be given in the format as given in Annexure-20.	Proposed	Submitted along with annual return 2023-24	
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	i) No proposal ii) 0.25 Ha iii) 250 iv) 750 v) Wire Fencing- 150m vi) 185000/-	i) Not Applicable ii) 0.30 Ha iii) 500 iv) 675 v) Wire Fencing- around 100m vi) No details given	The plantation and fencing work carried out in 2023-24 was done in a different location than the one proposed in the mining plan for the 2023-24 year. This deviation from the planned location has resulted in a violation of Rule 11(1) of the MCDR 2017.
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	No proposal	Not Applicable	

	iv) Rehabilitation by making water reservoir v) Any other specific means			
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)	Monitoring of Ambient air quality, water quality, noise level survey and ground vibration is given in mining plan. Half yearly monitoring done in core zone and quarterly monitoring done in buffer zone. The Quarterly Compiled Report is being submitted.	All the compliances are compiled as per mining plan and submitted on quarterly basis.	All the monitoring values are within the prescribed limits.
6f	General remarks of inspecting officer on PMCP compliance & progressive	During the year 2023-24, 500 saplings were planted along the statutory barrier, with a survival rate of 91.45%, resulting in 457 surviving plants. However, it was observed that there was a deviation in the plantation and wire-fencing activities, as these works were not carried out in the proposed locations mentioned in the mining plan. This deviation has resulted in a violation of Rule 11(1) of the MCDR 2017.		

7.0 Mineral Conservation

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	109426 Tonnes of ROM was proposed for production	13638 Tonnes dispatched	13638 tonnes of ROM mineral dispatched for captive purposes. No mineral sorting and beneficiation process is done. 100% mineral extracted by mechanised method is crushed directly and dispatched to cement plant.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	Cement grade	Cement grade	
7d	Any beneficiation process at mines	No proposal	Not Applicable	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	As this mine does not have any provision of sorting and beneficiation of minerals, so there is no work carried out for the same. 100% mineral extracted by mechanised method is crushed directly and dispatched to cement plant.		

8.0 Environment

S N	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Not Applicable	

8b	Concurrent use or storage of topsoil	No proposal	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Not Applicable	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal for waste rock, reject and fines dumps. The OB is proposed to outspread along the statutory barrier for plantation purpose.	The OB was utilized to outspread along the statutory barrier for plantation purposes.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No proposal	Not Applicable	
8f	Baseline information on existence of plantation & additional plantation done	Baseline information on existence of plantation - 500 no.of plants Additional plantation done-250	Cumulative-675 no.of plants	
8g	Survival rate	No details given in mining plan	90%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling on roads to control airborne dust carried out.	Water sprinkling carried out on the haul road.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Since the mine does not have any topsoil or mineral rejects, no proposals for these were given. A total of 11,771 cubic meters of overburden (OB) was generated as loose sand during 2023-24, which was utilized to spread along the statutory barrier of the mining lease (ML) boundary. This area was subsequently used for plantation. No reclamation and rehabilitation by backfilling were carried out in 2023-24.		

9.0 Compliance of Rule 45

S. N	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	All monthly returns for the year 2023-24 submitted. Annual returns for the year 2023-24 also submitted on 09/06/2024.		
S. N	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Mr. Natwar Singh Mori Mining Engineer –Thakar Chintan Kumar Hiteshbhai. Geologist – Arvind Singh Rathore	Found in order	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. in Ha	Covered under current (O-C) Workings 0.330 Work done under progressive mine closure plan during the year 0.2	Not mentioned area cover under mine road and area used for waste/OB disposal.	The areas covered under mine roads and used for waste/overburden (OB) disposal were not reported in the Annual Report (AR) for 2023-24, which has resulted in a violation of Rule 45(5)(c) read with 45(7).
9d	Scrutiny of Annual return on afforestation	No.of plant planted during 2023-24: 500 Total no. of trees at the end of the year: 457	Found in order	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	No on mineral reject generation reported in AR	Found in order	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	No ROM stock and/or graded ore reported in AR	Found in order, total production quantity is used as captive purpose.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	This is a captive mine so the sale value, Ex. Mine price & production cost is same which is 404.38 rupees	Found in order	
9i	Scrutiny of Annual return on fixed assets	Details given	Found in order	
9k	Scrutiny of Annual return on mining machineries	Shovel & Tipper	During the inspection, types of equipment were utilized: surface miner, loader, dumper, tipper, dozer, and water sprinkler.	
				The mining machinery details were reported incorrectly in the Annual Return (AR) for 2023-24, which has resulted in a violation of Rule 45(5)(c) read with 45(7).

10-Details of violations observed during current inspection and compliance position of earlier violation pointed out:

As per office records, there are currently no pending violations.

The MCDR/SDF inspection of the aforementioned mine was conducted on December 19, 2024, and the mine was found to be in working condition. However, during the field inspection, violations were noted under Rule 45(5)(c) read with 45(7), Rule 34(A) and Rule 11(1) of MCDR 2017.

The drone data was examined and returned to the party as it was not submitted according to the Standard Operating Procedures (SOP).

The Star Rating validation for the assessment year 2023-24 has been completed.

Dr. Debajyoti Nayak
Junior Mining Geologist
IBM, Gandhingar