

General

SN	Particulars	Details
1(a)	Name of the Mine	Babarkot Limestone Mine-I (Jafarabad ML 739)
1(b)	Name of Inspecting Officer & Designation	Dr. Debajyoti Nayak, 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	18.12.2024
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total ML area - 49.8454 Ha. Forest land -0 Non-forest land – 49.8454 Ha.
3	Mine code	38GUJ02018
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

			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 Jaydeep Gondaliya, Diploma in Mining with FCC (R) Narmada Cement- Jafarabad Works Village – Babarkot Taluka – Jafarabad Dist. – Amreli 365540 Mobile – 9826429066 Email- jaydip.gondaliya@adityabirla.com Date of Appointment – 06.09.2022.	
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr Jaydeep Gondaliya, Diploma in Mining with FCC (R) Narmada Cement- Jafarabad Works Village – Babarkot Taluka – Jafarabad Dist. – Amreli 365540 Mobile – 9826429066 Email- jaydip.gondaliya@adityabirla.com Date of Appointment – 06.09.2022.	
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: - 21.01.2023	
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 Modified Mining Plan: 684(4)(1)/MP-164/2018-nwz, Approval Date: 06.09.2018 Period from 2018-19 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 the previous year in exploration.
1b	Exploration over lease area for Geological axis 1 or 2.	Not Proposed	Nil	No exploration activities were carried out during 2023-24.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal in approved mining plan.	Nil	
1d	Balance area to be explored	No Proposal	NIL	

	Geological axis in 1 or 2			been explored in G1 level.
1e	Balance reserves as on 01.04.2024	Balance reserves : 111-5186770 121-2594000 122-0 Tonne		Total balance reserves: 7780770 Tonnes.
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 749165 E to 749400 E; 2312162 N to 2312456 N	42 Q 749648m E 2311981m N	The actual development location differed from the proposed location as per the submitted mining plan (Plate No. 5C). The actual development coordinates being 42 Q 749648 m E 231198 m N, around ML boundary pillar 39 to 51. This deviation has resulted in a violation of Rule 11(1) of the MCDR 2017.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	One bench proposed in mineral. No proposal for benches in topsoil and overburden	One bench made in mineral for development work.	
2c	Stripping ratio or ore to OB ratio	1:0.09	1:0.13	
2d	Quantity of topsoil generation in m ³	Not proposed	Not Applicable	
2e	Quantity of overburden generation in m ³	24691m ³	24001m ³	The reported quantities of overburden (OB) generation in the submitted Annual Returns (AR) for 2023-24 were incorrect, showing 2401 cubic meters. This discrepancy has led to a violation of Rule 45(5) (c) read with 45(7).
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The mining operation is carried out by drilling and blasting. The bench height was about 5m, and the slope was around 80-degree angles. The limestone formation overlain by overburden which is loose sand of an average thickness of about 1.25 m.		

3.0 Exploitation

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	One (Pit-1)	One	
3b	Quantity of ROM mineral	250000 Tonnes	178230 Tonnes	71.3% of

	production proposed			production achieved w.r.t proposal in FY-2023-24	I/51052/2025
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		
3g	Grade of sub-grade mineral generation	Not proposed	Not Applicable		
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method adopted for segregating from ROM.	100% mineral extracted by mechanised method is crushed directly and dispatched to cement plant.		
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	Proposed	The excavation was carried out by drilling and blasting.	DHT drilling by 110mm dia, burden 3.5m, spacing 4.5m and depth 6m. Power factor on an average 10 tonnes/kg.	
3k	Provision of mining machineries in mineral benches	Shovel, Drilling machine, Surface miner, Loader, dumper, tipper & dozer is proposed.	Shovel, Drilling machine, Surface miner, Loader, dumper, tipper, dozer, and water sprinkler are used.		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed Bench height-6 meters, the width of benches 15 m in mineral. No proposal for bench in the OB.	Bench parameter in mineral: The actual bench height is 5 meters in minerals. 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	Since the OB is loose sand therefore no proposal given for bench in OB.	

3/2022	GNR-IBM_RO_GNR			Review of Mining Plan (MP).		I/5105
3m	Total area covered under excavation/pits in Ha	3.27 Ha		Covered under current (O-C) Workings is 0.8 Ha		
3n	Ore to OB ratio for the pit/ mine during the year	1:0.09		1:0.13		
3o	Total area put in use under different heads at the end of year	Under mining-3.27 Ha. Storage of OB sand - 1.20 Infrastructure- 0.1.8Ha. Road-0.5Ha Plantation/Green belt development- 1.50Ha.		Under mining- 0.8Ha.		The areas used for mine infrastructure/roads, waste/overburden (OB) disposal, and PMCP works were not reported in the Annual Returns (AR) for 2023-24. This omission has led to a violation of Rule 45(5)(c) read with Rule 45(7).
3p	Production of ROM mineral during last five-year period, as applicable in MT	2019-20	0.06	2019-20	Nil	Production started in May 2023-24.
		2020-21	0.06	2020-21	Nil	
		2021-22	0.05	2021-22	Nil	
		2022-23	0.15	2022-23	Nil	
		2023-24	0.25	2023-24	0.178230	
3q	General remarks of inspecting officer on method of mining etc.	The method of working is open-cast and the mining carried out by using drilling & blasting method. Productions started in May 2023-24 and produced 178230 Tonnes with 100% recovery. This mine does not have any proposal to produce sub-grade minerals and was rejected because the mine only has saleable ore of cement grade. The areas used for mine infrastructure/roads, waste/overburden (OB) disposal, and PMCP works were not reported in the Annual Returns (AR) for 2023-24. This discrepancy has led to 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)	There is no proposal for separate dumping of topsoil & minerals rejected. The OB is proposed to outspread along the statutory barrier and to make ramps to access the various benches with proper	The OB was utilized to outspread along the statutory barrier of the ML boundary.	Total 24001m ³ of OB generated as loose sand during 2023-24, which was utilized to outspread along the statutory barrier of ML

		gradients.		boundary for
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 the ML boundary	The OB was utilized to outspread along the statutory barrier, bund, and ramps.	plantation and made ramps to access the various benches with proper gradient.
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 inspecting officer	As the mine does not have any top-soil and mineral reject so, no proposal for the same given. A total of 24001m ³ of OB was generated as loose sand during 2023-24, which was utilized to outspread along the statutory barrier of the ML boundary; this area was subsequently used for plantation.		

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 minerals from mined out before starting backfilling	Not Applicable	
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.	Reclamation and rehabilitation through backfilling were not 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	Proposed	Submitted along with annual return 2023-24	

3/2022-GM/1140-20.	Annexure-20.			I/5105
6b	Management of worked/mined out benches	i) No proposal ii) 0.50 Ha iii) 500 iv) 1500 v) Wire Fencing-150m vi) 575000/-	i) Not Applicable ii) 0.5 Ha iii) 455 iv) 1365 v) Wire Fencing-150m vi) 600000/-	Plantation and fencing work were carried out in the proposed location.
	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			
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 Applicable	
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 the mining plan. Half-yearly monitoring is done in the core zone, and quarterly monitoring is done in the buffer zone. The Quarterly Compiled Report is being submitted.	All the compliances are compiled as per the mining plan and submitted on a 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%, resulting in 455 surviving plants. Plantation and wire-fencing were observed as the proposed location mentioned in the mining plan.		

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	0.25 Million Tonne ROM production was proposed	0.178 Million Tonnes dispatched	0.178 Million tonnes of ROM mineral dispatched for captive purposes. No mineral sorting and

7b	Method of mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	beneficiation process is done. 100% mineral extracted mechanically is crushed directly and dispatched to the cement plant.
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 for sorting and beneficiation of minerals, so there is no work carried out for the same. 0.178 million tonnes of ROM mineral dispatched for captive purposes. 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 the existence of the plantation - 1000 no.of plants Additional plantation done-500	Cumulative-1365no.of plants	
8g	Survival rate	No details are given in the mining plan	91%	
8h	Water sprinkling on roads to control airborne dust	Proposed use water sprinklers on roads to control airborne dust	Water sprinkling on roads to control airborne dust is carried out.	Water sprinkling carried out on haul road.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Since the mine does not have any top-soil and mineral reject, no proposal for the same has been given. A total of 24001m ³ of OB was generated as loose sand during 2023-24, which was utilized to outspread along the statutory barrier of ML, 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, as this was not proposed.

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. Jaydeep Gondaliya Mining Engineer – Jaydeep Gondaliya 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 0.8Ha	Not mentioned area covers under mining road, waste/OB disposal and PMCP works.	The areas used for mine infrastructure/roads, waste/overburden (OB) disposal, and PMCP works were not reported in the Annual Returns (AR) for 2023-24. This omission has led to 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: 455	Found in order	The types and number of mining machinery were reported incorrectly in the Annual Returns (AR) for 2023-24, which has led to a violation of Rule 45(5)(c) read with 45(7).
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	No mineral reject generation was reported in the 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	This is a captive mine so the sale value, Ex. Mine	Found in order	

MCDR-MiFLOLST/3/2022-GNR	GNR	price & production cost is the same which is 244.20 rupees.		I/51052/2025
9i	Scrutiny of Annual return on fixed assets	Details given	Found in order	
9k	Scrutiny of Annual return on mining machineries	Shovel, Rock drill & Tipper	Shovel, Rock drill, Tipper, Loader, Dozer, and water sprinkler used in mining operation.	

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 18, 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