

MCDR INSPECTION REPORT**General**

S.	Particulars	Details
N		
1	Name of the Mine	Kukurdi Limestone Mines
2	Date of Inspection:	23.10.2024
3	Name of Inspecting Officer	Shri S. K. Mahapatra, (Assistant Controller of Mines)
4	Name of official accompanying inspection	Shri Mayank Saini, Mines Manager
5	Last date of Inspection & Officer	05.12.2023, Shri D Upadhyay, DCOM
6	Total Lease Area (Ha) with breakup of non-forest and forest land	Total Lease area-251.527 Ha Forest – 7.234 Ha. Non-Forest – 244.293 Ha
7	Mine code	38CHG19002
8	IBM Registration Number under rule 45 of MCDR, 1988	IBM/441/2011
9	Name of the lessee, Address, phone, email and fax number	Name - M/s UltraTech Cement Limited Address - ‘B’ Wing, Ahura Centre 2nd floor, Mahakali caves Road, Andheri (E), Mumbai 400093 Fax No - 02266928109 Phone No- 02266917800 Email ajit.ostwal@adityabirla.com
10	Village	Kukurdi
11	Taluka/Mandal	Balodabazar
12	District	Balodabazar-Bhatapara
13	Pin code	493332
14	State	Chhattisgarh
15	Post office	Balodabazar
16	Nearest police station	Balodabazar
17	Nearest Railway station	Bhatapara
18	Date of Grant of Mining Lease	06/04/2010
19	Date of Execution	04/11/2010
20	Date of opening of Mine	10/10/2016
21	Date of first Renewal, if applicable and its period & expiry	Not Applicable
22	Date of second Renewal, if applicable and its period & expiry	Not Applicable
23	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
24	Name of the Nominated Owner with Address, phone, email, fax number and date of	Mr. K. C. Jhanwar UltraTech Cement Limited

	appointment	Aditya Birla Centre, S.K. Ahire Marg, Worli, Mumbai-400 030 Email: ajit.ostwal@adityabirla.com Phone No.: 022-66917421 Date of Appointment – 19/10/2018
25	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Keshav Nooguri Agent (Mines) & Unit Head Kukurdi Limestone Mines Vill. Sarkipar, PO Semradih Tahsil-Balodabazar, District- Balodabazar Bhatapara (Chhattisgarh) Email – nooguri.keshav@adityabirla.com Phone no – 8978473337 Date of appointment – 02/12/2022
26	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Mayank Saini Kukurdi Limestone Mines Vill. Sarkipar, PO Semradih Tahsil – Balodabazar, District – Balodabazar Bhatapara (Chhattisgarh) Phone No- 9424833773 Email- Mayank.saini@adityabirla.com Date of appointment- 10/11/2022
27	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Mayank Saini Kukurdi Limestone Mines Vill. Sarkipar, PO Semradih Tahsil – Balodabazar, District – Balodabazar Bhatapara (Chhattisgarh) Phone No- 9424833773 Email- Mayank.saini@adityabirla.com Date of appointment- 10/11/2022
28	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Hemant Verma Qualification: M.Tech. (Applied Geology) Experience: 18 Years Vill. Sarkipar, PO Semradih Tahsil – Balodabazar, District – Balodabazar Bhatapara (Chhattisgarh) Phone No- 9826145473 Email- hemantk.verma@adityabirla.com Date of appointment: 13.03.2023

29	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.	Yes Geologist Shri Hemant Verma Date of appointment: 13.03.2023 Qualification: M.Tech. (Applied Geology) Experience: 18 Years Mining Engineer Shri Mayank Saini Date of appointment: 10.11.2022 Qualification: B. E. (Mining) Experience: 21 Years
30	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Approved Mining Plan for the period 2009-10 to 2014-15 vide letter no 14(3)/2008-MCCM (CZ)/MP-24, Nagpur dated 18.12.2008
31	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Approved Review of Mining Plan for the period 2020-21 to 2024-25 dated 09.12.2019 Approved Modification of Review of Mining Plan for the period 2023-24 to 2024-25 dated 18.01.2024.
32	Mineral(s) granted in lease and proved for mining	Limestone
33	Method of Mining (Opencast, Underground)	Opencast
34	Category (Fully Mechanised, Others or Manual)	Mechanized
35	Captive/Non-Captive	Captive
36	Present EC Status	EC is granted for 5 Million Ton per annum Limestone production.
37	Status of Financial Assurance	Financial Assurance of Rs 2,34,05,000.00 by way of bank Guarantee which were valid up to 31.03.2025.

Exploration

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
1a	Backlog of previous year	No Proposal	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	7 Boreholes 500 meters	To be completed in the current year	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil	Expenditure – Approx. 10-12 lakhs	Nil

1d	Balance area to be explored to bring Geological axis in 1 or 2	23.215 Ha.	Nil	To be completed in year 2024-25
1e	Balance reserves as per latest approved document	As on 31.03.2024 Proved Min. Reserve (111) – 203.52MT Probable Min. Reserve (122) – 12.83MT Pre-feasi. Min. Reso. (221) – 70.29MT Pre-feasi. Min. Reso. (222) – 18.41MT Inferred Min. Resource (333) – 4.45MT		Production from 01.10.2023 to 31.03.2024 – 0.019 MT has been reduced from reserve.
1f	General remarks of inspecting officer on geology, exploration etc.	Proposed Exploration will be completed in the FY 2024-25. As 07 Boreholes to be completed in the current year. At present G1 area 228.31 ha and G2 area 23.21.		

Development

S.N	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
2a	Location of development w.r.t. lease area	E:612938to 613493 N: 2395072 to N: 2395649 RL 270-250 m	E: 01 Quarry, Within the proposed area.	Production is less as compare to proposed due to delay in erection & commissioning of new captive cement plant.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate bench proposed.	As per plan	The development carried out within the proposed extent as per the proposal.
2c	Stripping ratio or ore to OB ratio	1:0.112	1:0.276	Less generation of limestone
2d	Quantity of topsoil generation in m3	18246	17882.50	
2e	Quantity of overburden generation in m3	78407	78951.48	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc	During inspection it is observed that, the Mining Pit has been developed haphazardly without formation of systematic and regular benches as envisaged in the MRMP and over burden benches		

are not observed to be kept sufficiently in advance from the mineral benches violation of Rule 11 of MCDR 2017 issued on 30.10.2024.

EXPLOITATION

N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	700000 Tons	350959.90 Tons	Dispatched 19591.89 Tons and remaining 331368.01 Tons material has been stocked.
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	21000 Tons	0.00	Delay in erection & commissioning of Screen circuit
3e	Grade of mineral reject generation and threshold value declared	Grade of Screen reject is below 34% CaO. As per mining plan Threshold value of limestone is 34% CaO.	Nil	No screen reject generation
3f	Quantity of sub-grade mineral generation	NA	NA	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	No segregation. Mechanized.	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	Nil	
3j	Provision of drilling & blasting in mineral benches	Drill – 152 mm dia	Drill – 115 mm dia	As reported in AR 2023-24
		Slurry & Emulsion Explosive	Slurry Explosive	Proposed 152mm Drill M/c was not commissioned

				due to delay in Plant commissioning. As reported in AR 2023-24 and found to be in operation. Proposed machineries were not commissioned.
3k	Provision of mining machineries in mineral benches	Excavator -2 nos 6.5CuM Excavator – 1 nos. 2.1CuM Dumper – 5 nos. 100 tons Dozer – 1 no.	Excavator – 1 no, 2.1CuM Excavator – 1 no, 0.91CuM Tipper – 5 nos. 25 tons Dozer – 1 no.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of benches in Soil & OB – 5.0 m LST Bench – 10.0 m	Height of benches in Soil & OB – 2.5 to 4.0m LST Bench – 10 m	
3m	Total area covered under excavation/pits	43.78 Ha. at the end of plan period (31.03.2025)	14.60 Ha As on 31.03.2024	As reported in AR 2023-24
3n	Ore to OB ratio for the pit/mine during the year	1:0.112	1:0.276	
3o	Total area put in use under different heads at the end of year	Current working – 43.78 Ha Reclaimed/ rehabilitated – 0.00 Ha Waste & screen reject Dump – 13.208 Ha Top soil storage – 3.091 Ha Infrastructure, crushing & Roads – 6.831 Ha	Current working – 14.60 Ha Reclaimed/ rehabilitated – 0.00 Ha Waste Dump – 9.08 Ha Top soil storage – 0.529 Ha Infrastructure, crushing & Roads – 4.99 Ha Others (Mineral Stock) – 4.25 Ha Work done under PMCP – 0.43 Ha (Plantation)	As reported in AR 2023-24.
3p	Production of ROM mineral during last six-year period,	19-20 = 5000000 Tons	6416.38 Tons	Delay in erection & commissioning

	as applicable	20-21 = 1030000 Tons	NIL	
		21-22 = 1030000 Tons	87580.90 Tons	of crusher as well as captive cement plant and due to Covid-19
		22-23 = 2060000 Tons	747534.07 Tons	
		23-24 = 700000 Tons	350959.90 Tons	
3q	General remarks of inspecting officer on method of	During inspection it is observed that, the Mining Pit has been developed haphazardly without formation of systematic and regular benches as envisaged in the MRMP and violation of Rule 11 of MCDR 2017 issued on 30.10.2024.		

Solid Waste Management-Dumping

S.N	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
4a	Separate dumping of topsoil, OB & mineral reject (Rule 33, 37)	Separate dumping proposed for topsoil, OB	OB and soil dumping carried out at earmarked location as per the proposal.	
4b	Location of topsoil, OB & mineral reject dumps	Topsoil Dump E612822-613050 N2395996-2395162 OB Dump E614050-614170 N2395822-2395914	As proposed	
4c	Number of dumps within lease area and outside lease area	WML-2 nos.	WML-2 nos.	
4d	Location of dumps w.r.t. ultimate pit limit	Proposed within UPL	OB & Soil dumps are	To be re-handled later on.

4e	Number of active & alive dumps	Soil Dump -1 OB Dump – 1	within UPL Soil Dump -1 OB Dump – 1	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Proposed Retaining wall or garland drain	Retaining wall & Garland drain constructed	
4i	Length of Retaining wall or garland drain all along dump	Retaining wall No proposal	Retaining wall Nil	Garland drain is made less as compare to proposal due to less advancement of dump.
		Garland drain 218m	Garland drain 140m	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	Dumps located within ultimate pit limit. Garland drain is made less as compare to proposal due to less advancement of dump as production of limestone is less than proposed.		

Solid Waste Management-Backfilling

S.N	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	No proposal	Nil	
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The area is not fully exhausted for backfilling, reclamation, etc. This is a new mine area not matured for back filling.		

Progressive Mine Closure Plan

N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	As per Rule 26(2) Annual PMCP report to be submitted before 1st day of	Submitted on 29th June, 2024 for the reporting year	

		July of every Year		
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (ha)	No Proposal	Nil	
	ii) Afforestation done (ha)	No Proposal	Nil	
	iii) No. of saplings planted during the year	No Proposal	Nil	
	iv) Cumulative no. of plants	No Proposal	Nil	
	v) Any other specific method of rehabilitation	No Proposal	Nil	
	vi) Cost incurred on watch & care during the year	NA	Nil	
6c	Compliance on reclamation and rehabilitation by backfilling	No Proposal	Nil	
	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			
6d	Compliance of Rehabilitation of waste land within lease	No Proposal	Nil	
	i) Afforestation			
	ii) Area rehabilitated (ha)			
	iii) Method of rehabilitation			
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring proposed	Environmental monitoring carried out. Air quality, Surface Water, Ground water & Noise level monitoring carried out. All parameters are within limits	Environmental monitoring Report from April-2023 to March-2024 available. The results are found within limit
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	This is a new mine area not matured for back filling.		

Mineral Conservation

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal for sorting. Total ROM is Being utilized	No grade wise sorting is practiced as total ROM is being utilized	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	NA	NA	
7c	Different grade of mineral sorted out at mines	Nil	Nil	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	There is no proposal for mineral beneficiation was proposed during the reporting year. Mineral dispatched from the lease area to the captive plant.		

Environment

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
8a	Separate removal and utilization of topsoil (Rule 36)	Top Soil proposed 18246 CuM	Top Soil handled & utilized is 17882.50 CuM	
8b	Concurrent use or storage of topsoil	Utilize & Storage	Utilized for protective bund formation and for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Proposed Soil dump: 02 Nos. OB Dump: 01 Nos.	OB & Soil dumping is carried out as per the proposal	As per proposal
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil	
8f	Baseline information on existence of plantation & additional Plantation done	Within lease- 1000 nos Outside lease -	Within lease- 1020 nos saplings	Cumulative plantation – 14520 Nos.

		Nil	planted Outside lease - Nil	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling by water tanker over haul roads has been carried out.	One dedicated water tanker of 3KL deployed to carried out water sprinkling over haul roads to minimize the fugitive dust emission
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty in & around the mine area was good.	

Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted in time. A.R. Submitted for 2023-24 on 29.06.2024	
S.N	Item	Details Given in A.R.	Observation of I/ Officer
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	<u>Mining Engineer</u> – Shri Mayank Saini Date of appointment- 10.11.2022 <u>Geologist</u> – Shri Hemant Verma, Date of appointment – 13.03.2023	Mining Engineer and Geologist appointed were present during inspection.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Current working – 14.60 Ha Reclaimed/ rehabilitated – 0.00 Ha Waste Dump – 9.08 Ha Top soil storage – 0.529 Ha Infrastructure, crushing & Roads – 4.99 Ha Others (Mineral	As reported in AR 2023-24

		Stock) – 4.25 Ha Work done under PMCP – 0.43 Ha (Plantation area)		
9d	Scrutiny of Annual return on afforestation	1020 nos. of sapling within ML area with 70% survival rate	As reported in AR 2023-24	Found to be in order.
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock – 236912.65 tons Production - 350959.90tons Dispatch - 19591.89 tons Closing stock – 568280.66 tons	As reported in AR 2023-24	Separate Limestone stock has been generated
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of Production- Rs 458.57 Ex mine price- Rs. 458.57	As reported in AR 2023-24	Captive mines.
9i	Scrutiny of Annual return on fixed assets	Rs. 3128629578 Including Land, Building & Plant and Machinery	As reported in AR 2023-24	
9k	Scrutiny of Annual return on mining machineries	Excavator – 1 no, 2.1CuM Excavator – 1 no, 0.91CuM Tipper – 5 nos. 25 Tons Rock Drill – 1 no. 115mm Dozer – 1 no.	As reported in AR 2023-24	

10. Drone Survey Information and data thereof.

Drone Survey data uploaded on 07.06.2024 (Drone survey management data) in the IBM portal for the reporting year 2023-24 and as per norms.

11. Status of compliance of MCDR, 2017 including therewith the rectification of outstanding violation of the rules.

- (i) No violation was pointed during earlier inspection.

(ii) Violation of Rule 11(1) & 45(7) pointed during current inspection and violation letter issued on 30.10.2024.

Date: 30.10.2024

) संजय कुमार महापात्र)
सहायक खान नियंत्रक
भारतीय खान ब्यूरो