

MCDR INSPECTION REPORT 2022-23

General:

Sl No.	Particulars	Details
1	Name of the Mine	Kukurdih Limestone Mines
2	Date of Inspection:	05.12.2023
3	Name of Inspecting Officer	Shri D. Upadhyay, DCOM
4	Name of official accompanying inspection	Mr. Mayank Saini, Mines Manager Mr. Hemant Verma, Geologist
5	Last date of Inspection & Officer	14/06/2022 Shri D. Upadhyay, DCOM
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest – 7.234 Ha. Non-Forest – 244.293 Ha
7	Mine code	38CHG19002
8	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/441/2011
9	Name of the Lease, Address, Phone, email and fax number	Name - M/s UltraTech Cement Limited Address - 'B' Wing, Ahura Centre 2 nd floor, Mahakali caves Road, Andheri (E), Mumbai 400093 Fax No - 02266928109 Phone No- 02266917800 Email - ajit.ostwal@adityabirla.com
10	Village	Kukurdih
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	Weekly day of rest	Sunday
21	Date of opening of Mine	10/10/2016
22	Date of First Renewal, if applicable and its period & expiry	NA
23	Date of Second Renewal, if applicable and its period & expiry	NA
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. K. C. Jhanwar UltraTech Cement Limited 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
26	Name of the Mine Agent with Address, phone, email, fax number and date of	Mr. Keshav Nooguri Agent (Mines) & Unit Head

	appointment	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
27	Name of the Mine 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
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the 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
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes <u>Geologist</u> Shri Hemant Verma Date of appointment: 13.03.2023 Qualification: M.Tech. (Applied Geology) Experience: 17 Years <u>Mining Engineer</u> Shri Mayank Saini Date of appointment: 10.11.2022 Qualification: B. E. (Mining) Experience: 20 Years
30	Date of Approval of Mine Plan/Modified Mine Plan 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.
31	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	NA
32	Mineral(s) granted in lease and approved for Mining	Limestone
33	Method of Mining (Opencast, Underground)	Open cast
34	Category (Fully Mechanized, Others or Manual)	Mechanized
35	Captive/Non-Captive	Captive
36	Present EC Status	5.0 MTPA
37	Status of Financial Assurance	1) BG NO- 240GT02193100009, Amount- Rs 2,01,00,000.00/- Date-06.11.2019, Bank- HDFC 2) BG NO- 240GT02193100009 Amount- Rs. 3,35,00,000/- Date-28.12.2021 Bank- Yes bank

Scientific Mining: Compliance of proposals of approved Mining Plan/Review of Mining Plan:

1.0 Exploration:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
1a	Backlog of previous year Proposals	Not proposed	Nil	No Backlog
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed	Nil	Area explored Under G1 Category: 231.116 Ha, Under G2: 12.907 Ha
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not proposed	Nil	Earlier Central Drilling Associates Nagpur has carried out Exploration in year 2017-18 total expenditure Rs 495804/-
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not proposed	Nil	In 2024-25, exploration has been proposed to convert 12.907 Ha, G2 level to G1 level.
1e	Balance reserves as on 01.04.2023	Balance reserves as on 01.04.2023 Proved Min. Reserve (111) – 147.39MT Probable Min. Reserve (121) – 11.91MT Feasi. Min. Resource (211) – 139.97MT Pre-feasi. Min. Resource (221) – 8.07MT Inferred Min. Resource (333) – 6.08MT		
1f	General remarks of Inspecting officer on geology, exploration etc.	Total lease area is explored under G1/G2 level of exploration. Under G1 level 231.116 Ha and Under G2: 12.907 Ha have been covered. Further. Further in 2024-25, exploration has been proposed to convert G2 level to G1 level.		

2.0 Development:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
2a	Location of Development w.r.t. lease area	E: 612938 to E: 613493 N: 2395072 to N: 2395649 RL 270-243 m	E: 613014 to E: 613331 N: 2395033 to N: 2395385 RL 270-247 m	The development carried out within the proposed extent as per the proposal
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches proposed.	Separate benches in Ore & OB are maintained.	Separate benches in Ore & OB are maintained.
2c	Stripping ratio or ore to OB ratio	1:0.191	1:0.047	Production is less as compare to propose due to delay in

				erection of new captive cement plant.
2d	Quantity of topsoil generation in m ³	60857	10917.62	Due to Less ROM production generation of top soil is less.
2e	Quantity of overburden generation in m ³	331768	24597.18	Due to Less ROM production generation of OB is less.
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development is carried out within approved proposal.		

3.0 Exploitation:

S.N	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
3a	Number of pits proposed for production	1	1	Single pit proposed.
3b	Quantity of ROM mineral production proposed	2060000 Tons	747534.07 Tons	Production is less as compare to proposed due to delay in erection & commissioning of new captive cement plant.
3c	Recovery of Salable/usable mineral from ROM production	2000000 Tons	747534.07 Tons	
3d	Quantity of mineral reject generation	60000 Tons	Nil	Mineral reject simultaneously blended with high grade.
3e	Grade of mineral reject generation and threshold value declared	Below 42% CaO limestone is 34% CaO.	Nil	Mineral reject simultaneously blended with high grade.
3f	Quantity of sub-grade mineral generation	Nil	Nil	Mineral reject simultaneously blended with high grade.
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized.	Mechanized	Mechanized
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	Nil	Nil
3j	Provision of drilling & blasting in mineral benches	Drill – 115 mm dia Slurry & Emulsion Explosive	Drilling and blasting is carried out as per	Drilling and blasting is carried out as per proposal.

			proposal.	
3k	Provision of mining machineries in mineral benches	Excavator -2 nos 6.5CuM Excavator – 2 nos. 2.1CuM Dumper – 8 nos. 55 tons Tipper – 7 nos. 25 tons Dozer – 1 no.	Excavator – 1 no, 2.1CuM Excavator – 1 no, 0.91CuM Tipper – 19 nos. 25 tons Dozer – 1 no.	Excavator, Loader and Dumper are equipped to winning out the mineral.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Bench height is suitably matched with the excavator.
3m	Total area covered under excavation /pits	43.78 Ha. at the end of plan period.	13.93 Ha	Total area covered under pits 13.931Ha
3n	Ore to OB ratio for the pit/mine during the year	1:0.191	1:0.047	
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 – 13.93 Ha Reclaimed/rehabilitated – 0.00 Ha Waste Dump – 7.921 Ha Top soil storage – 0.529 Ha Infrastructure, crushing & Roads – 2.559 Ha Others (Mineral Stock) – 3.39 Ha Work done under PMCP – 0.40 Ha (Plantation on Dump area)	Current working – 13.93 Ha Reclaimed/rehabilitated – 0.00 Ha Waste Dump – 7.921 Ha Top soil storage – 0.529 Ha Infrastructure, crushing & Roads – 2.559 Ha Others (Mineral Stock) – 3.39 Ha Work done under PMCP – 0.40 Ha (Plantation on Dump area)
3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	18-19 = 5000000 Tons	NIL	Production is less as compare to proposed due to delay in erection & commissioning of new captive cement plant.
		19-20 = 5000000 Tons	6416.38 Tons	
		20-21 = 1030000 Tons	NIL	
		21-22 = 1030000 Tons	87580.90 Tons	
		22-23 = 2060000 Tons	747534.07 Tons	
3q	General remarks of inspecting officer on method of mining etc	The ROM production has been carried out from single pit within the approved proposal.		

4.0 Solid Waste Management-Dumping:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate dumping proposed for topsoil, OB and screen/mineral reject	OB and soil dumping carried out at earmarked location as per the proposal.	No crusher installed therefore, Screen/Mineral reject not generated
4b	Location of topsoil, OB & mineral reject dumps	Topsoil Dump E612775-612802 N2395473-2395521	Topsoil Dump E612775-612803 N2395468-2395521	As per proposal

		OB Dump E614055-614173 N2395639-2395806	OB Dump E614050-614169 N2395731-2395890	As per proposal
		Screen Reject dump E614049-614131 N2395104-2395140	Screen Reject dump Nil	
4c	Number of Dumps within lease area and outside lease area	Soil Dump -1 OB Dump – 1	Soil Dump -1 OB Dump – 1	Soil Dump -1 OB Dump – 1
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Temporary dump Proposed within UPL	As per proposal.	As per proposal.
4e	Number of Active & Alive dumps	Soil Dump -1 OB Dump – 1	Soil Dump -1 OB Dump – 1	As per proposal
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps established	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Retaining wall and garland drain Proposed	Retaining wall & Garland drain constructed	Retaining wall & Garland drain constructed
4i	Length of Retaining wall or garland drain all along dump	Retaining wall 321m Garland drain 1052m	Retaining wall 529m Garland drain 471m	Garland drain is made less due to less generation of OB
4j	Number of settling ponds	Not proposed	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	Separate dumping of topsoil, OB are maintained. Retaining wall and garland drain are constructed around the dump.		

5.0 Solid Waste Management-Backfilling:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not proposed	Nil	Nil
5b	Area under backfilling of mined out area	Not proposed	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	Nil	Nil
5d	Total area fully reclaimed & rehabilitated	Not proposed	Nil	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area is not matured for reclamation and rehabilitation.		

6.0 Progressive Mine Closer Plan:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
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 July of every Year	Submitted on 27th June, 2023 for the reporting year	Submitted on 27th June, 2023 for the reporting year

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	No Proposal	Nil	Area is not matured for reclamation and rehabilitation
6c	Compliance on reclamation and rehabilitation by backfilling Voids available for backfilling (L*B*D) Void filled by waste/tailings Afforestation on the backfilling Rehabilitation by making water reservoir Any other specific means	No Proposal	Nil	Area is not matured for reclamation and rehabilitation
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	No Proposal	Nil	Nil
6e	Compliance of Environment monitoring (core zone & buffer zone)	Environmental monitoring proposed	Environmental monitoring carried out at regular interval and observed that all the parameters within the specified standard limit.	Environmental monitoring carried out at regular interval and observed that all the parameters within the specified standard limit.
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Area is not matured for reclamation and rehabilitation. Plantation is carried out as per proposal.		

7.0 Mineral Conservation:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM mineral dispatched	ROM mineral dispatched	ROM mineral dispatched
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	Mechanical
7c	Different grade of mineral sort out at mine	ROM mineral dispatched	ROM mineral dispatched	ROM mineral dispatched

7d	Any beneficiation process at mines	Nil	Nil	No such proposal for mineral beneficiation was proposed during the reporting year.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM mineral dispatched for its captive plant.		

8.0 Environment:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Top Soil proposed 60857 CuM	Top Soil Generated 10917.6 CuM	Top Soil removal is less due to less advancement of Pit.
8b	Concurrent use or storage of topsoil	Utilize & Storage	Utilize & Storage	Storage 4760CuM and utilized 6157.6 CuM for plantation
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Proposed 03 dumps for OB, Soil & Screen Reject	OB & Soil dumping is carried out as per the proposal at the earmarked location.	As per proposal
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	No Proposal	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposal	Nil	Nil
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Within lease- 1000 nos Outside lease - Nil	Within lease- 1000 nos Cumulative 13500 nos. saplings within lease	Lessee has planted sapling on protective bund along lease boundary
8g	Survival rate	75%	75%	Survival rate 75%.
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 mine area	Aesthetic beauty in and around mines area is maintained by plantation.		

9.0 Compliance of Rule 45:

S N	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	MR submitted up to Oct-2023 AR submitted up to 2022-23	

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	Mining Engineer and Geologist appointed
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Current working – 13.93 Ha Reclaimed/rehabilitated – 0.00 Ha Waste Dump – 7.921 Ha Top soil storage – 0.529 Ha Infrastructure, crushing & Roads – 2.559 Ha Others (Mineral Stock) – 3.39 Ha Work done under PMCP – 0.40 Ha (Plantation on Dump area)	Found in order.	Found in order
9d	Scrutiny of Annual return on afforestation	1000 nos. of sapling within ML area with 75% survival rate	Found in order.	Found in order
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Found in order.	Found in order
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Opening stock – Nil Production - 747534.07tons Dispatch - 510621.42 tons Closing stock – 236912.65 tons	Found in order.	Found in order
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Cost of Production- Rs 358.84 Ex mine price- Rs. 358.84	Found in order.	Found in order
9i	Scrutiny of Annual return on Fixed assets	Rs. 2396443260 Including Land, Building & Plant and Machinery	Found in order.	Found in order
9k	Scrutiny of Annual return on mining Machineries	Excavator – 1 no, 2.1CuM Excavator – 1 no, 0.91CuM Tipper – 19 nos. 25 Tons Rock Drill – 2 nos. 115mm Dozer – 1 no.	Found in order.	Found in order

10- Details of violations observed during last inspection and the compliance status.

No violation of serious category is observed during the inspection

Date:

Signature:
Name: D. Upadhyay
Designation: DCOM