

## MCDR INSPECTION REPORT 2022-23

### General:

Sl .No.	Particulars	Details
1	Name of the Mine	Century Cement Limestone Mine
2	Date of Inspection:	25.10.2023
3	Name of Inspecting Officer	Shri D. Upadhyay, DCOM
4	Name of official accompanying inspection	Shri L Madhusudhan Reddy, Mining engineer Disha Shetgaonkar, Geologist
5	Last date of Inspection & Officer	20.12.2022, Shri D. Dash, RMG
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non-Forest: 74.843 Ha Forest : 0 Total 74.843 Ha
7	Mine code	38CHG14024
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	M/s. UltraTech Cement Limited, Unit: Baikunth Cement Works PO: Baikunth-493116, Dist.- Raipur(C.G.) Tel. No.: 07721 261222 Email: utcl_bcw.mines@adityabirla.com
10	Village	Tandwa & Bahesar
11	Taluka/Mandal	Tilda
12	District	Raipur
13	Pin code	493116
14	State	Chhattisgarh
15	Post Office	Baikunth
16	Nearest Police Station	Tilda
17	Nearest Railway Station	Tilda
18	Date of Grant of Mining Lease	17.09.2002
19	Date of Execution	30.09.2002
20	Weekly day of rest	Sunday
21	Date of opening of Mine	01.07.2004
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	Shri K. C. Jhanwar M/s. UltraTech Cement Limited, Ahura Centre, B Wing 2nd Floor, Mahakali Caves Road, Andheri( E ) , Mumbai-400093 Email: <a href="mailto:kailash.jhanwar@adityabirla.com">kailash.jhanwar@adityabirla.com</a>

		Date of appointment: 01.10.2019
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri B. P. Mishra M/s. UltraTech Cement Limited, Unit: Baikunth Cement Works PO: Baikunth-493116, Dist.- Raipur(C.G.) M. No.: 9424207037 Email: <a href="mailto:utcl_bcw.mines@adityabirla.com">utcl_bcw.mines@adityabirla.com</a> Date of appointment: 01.10.2019
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri R. P. S. Bhatia M/s. UltraTech Cement Limited, Unit: Baikunth Cement Works PO: Baikunth-493116, Dist.- Raipur(C.G.) M. No.: 942552611 Email: <a href="mailto:utcl_bcw.mines@adityabirla.com">utcl_bcw.mines@adityabirla.com</a> Date of appointment: 01.10.2019
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Bhupesh Paliwal Qualification: B.E. (Mining) Total experience: 18 years Address: M/s. UltraTech Cement Limited, Unit: Baikunth Cement Works PO: Baikunth-493116, Dist.- Raipur(C.G.) Date of appointment: 25.09.2021
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes. Name of Geologist: Disha Shetgaonkar Date of appointment: 21.02.2023 Name of Mining Engineer: Shri Bhupesh Paliwal Date of appointment: 25.09.2021
30	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	Review of Mining Plan approval letter no- RPR/ LST/Khayo/1178/2018/RPR, dated 12/11/2018 for the period April 2019 to March 2024.
31	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	
32	Mineral(s) granted in lease and approved for Mining	Limestone
33	Method of Mining (Opencast, Underground)	Opencast
34	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
35	Captive/Non-Captive	Captive
36	Present EC Status	EC limlt: 1.8 MT & valid up to 29.02.2032
37	Status of Financial Assurance	Performance security of Rs. 1,86,77,000 /- and valid up to 30.09.2024.

## 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	Entire area is covered under G-1 level of exploration.
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed	Nil	Entire area is covered under G-1 level of exploration.
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not proposed	Nil	Entire area is covered under G-1 level of exploration.
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not proposed	Nil	Entire area is covered under G-1 level of exploration.
1e	Balance reserves as on 01.04.2023	Balance reserves as on 01.04.2023: Under 111:2.806 MT Under 211:3.313 MT		
1f	General remarks of Inspecting officer on geology, exploration etc.	Entire area is covered under G-1 level of exploration.		

### 2.0 Development:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
2a	Location of Development w.r.t. lease area	UTM Co-ordinate: 2379413 – 2379538 582366 - 582548	UTM Co-ordinate: 2379354 – 2379504 582259 - 582485	Development is carried out within approved proposal.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in OB & Ore	Separate benches in OB & Ore are maintained	Benches:1 in OB and 3 in Ore
2c	Stripping ratio or ore to OB ratio	1:0.145T/cu.m	1:0.123T/cu.m	1:0.123T/cu.m
2d	Quantity of topsoil generation in m <sup>3</sup>	5216 m <sup>3</sup>	2495 m <sup>3</sup>	Due to less production, topsoil generated less.
2e	Quantity of overburden generation in m <sup>3</sup>	87174 m <sup>3</sup>	54426.6 m <sup>3</sup>	Due to less production, OB generated less.
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Developmental 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	
3b	Quantity of ROM mineral production proposed	1332323 T	723905 T	Due to low market demand the plant was not working up to its full capacity and also due to non-availability of blasting permission within 300 m from HT Line there was less production.
3c	Recovery of Salable/usable mineral from ROM production	1200000 T	723905 T	Due to low market demand the plant was not working up to its full capacity and also due to non-availability of blasting permission within 300 m from HT Line there was less production.
3d	Quantity of mineral reject generation	132623T	Mineral reject simultaneously blended at site with high grade limestone and utilised.	Mineral reject simultaneously blended at site with high grade limestone and utilised.
3e	Grade of mineral reject generation and threshold value declared	34-42% CaO & >5% MgO	34-42% CaO & >5% MgO	34-42% CaO & >5% MgO
3f	Quantity of sub-grade mineral generation	Not proposed.	NIL	NIL
3g	Grade of sub-grade mineral generation	Not proposed.	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	Not proposed	NIL	NIL
3j	Provision of drilling & blasting in mineral benches	Drilling and blasting is proposed,	Drilling and blasting is carried out as per proposal.	Burden:3m Spacing:4.5 m Depth: 10 m
3k	Provision of mining machineries in mineral benches	Shovel and dumper combination	Shovel and dumper combination	Excavator, Loader and Dumper are equipped to winning out the mineral.
3l	Whether height of benches in overburden	Yes	Yes	Bench height is suitably matched with the excavator.

	and mineral suitable for method of mining proposed in MP/SOM			
3m	Total area covered under excavation /pits	23.91 Ha at the end of plan period.	17.11 Ha at the end of 2022-23	17.11 Ha at the end of 2022-23
3n	Ore to OB ratio for the pit/mine during the year	1:0.145T/cu.m	1:0.123T/cu.m	1:0.123T/cu.m
3o	Total area put in use under different heads at the end of year	Area proposed at the end of plan period: Pit: 23.91 Ha., Area occupied by infrastructure and roads etc.: 1.0 Ha	Area covered Pit: 17.11 Ha., Area occupied by infrastructure and roads/ railway etc.: 1.0 Ha	Area covered Pit: 17.11 Ha., Area occupied by infrastructure and roads/ railway etc.: 1.0 Ha
3p	Production of ROM mineral during last five-years period, as Applicable (tonne)			
	2018-19	676000T	498712.76T	Production is carried out as per requirement of its captive plant.
	2019-20	1356097T	1121541T	
	2020-21	1344014T	1096910T	
	2021-22	1332281T	466747T	
	2022-23	1332323T	723905T	
3q	General remarks of inspecting officer on method of mining etc	Production is carried out as per requirement of its captive plant.		

#### **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)	Not proposed , only backfilling proposed	Concurrent backfilling is continue.	Concurrent backfilling is continue.
4b	Location of topsoil, OB & mineral reject dumps	Not proposed , only backfilling proposed	Concurrent backfilling is continue.	Concurrent backfilling is continue.
4c	Number of Dumps within lease area and outside lease area	Not proposed , only backfilling proposed	Concurrent backfilling is continue.	Concurrent backfilling is continue.
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed , only backfilling proposed	Concurrent backfilling is continue.	Concurrent backfilling is continue.
4e	Number of Active & Alive dumps	Not proposed , only backfilling proposed	Concurrent backfilling is continue.	Concurrent backfilling is continue.

4f	Number of dead dumps	Not proposed , only backfilling proposed	Concurrent backfilling is continue.	2 dump Stabilized by plantation
4g	Number of dumps established	Not proposed , only backfilling proposed	Concurrent backfilling is continue.	2 dump Stabilized by plantation
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	Retaining wall is made all along dump
4i	Length of Retaining wall or garland drain all along dump	Garland Drain:150 m Retaining wall: 70 m	Garland Drain:285 m Retaining wall: 95 m	Retaining wall & Garland Drain are made all along dump
4j	Number of settling ponds	Not proposed	Nil.	Nil.
4k	Specific commends of inspecting officer on waste dump management	Concurrent Backfilling of mined out area is being practiced.		

#### **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	Backfilling proposed	Concurrent backfilling is continue.	Concurrent backfilling is continue.
5b	Area under backfilling of mined out area	0.5 Ha	0. 2 Ha	The area was not matured for backfilling due to less production as per plant requirement.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Proposed to use in plantation	Top soil used for plantation	Top soil used for plantation
5d	Total area fully reclaimed & rehabilitated	Reclaimed & rehabilitated: 0.5 Ha	Reclaimed & rehabilitated: 0.2 Ha	Reclaimed & rehabilitated: 0.2 Ha
5e	General remarks of inspecting officer on backfilling, reclamation etc	Concurrent backfilling of mined out area is continue.		

#### **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 provision of MCDR 2017.	Annual report on PMCP submitted	Annual report on PMCP submitted

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	Not proposed	NIL	Concurrent backfilling of mined out area is continue.
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	Backfilling 0.5 Ha	Backfilling 0.2 Ha	Backfilled area Rehabilitation by plantation
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	Not proposed	Nil	Nil
6e	Compliance of Environment monitoring (core zone & buffer zone)	Environmental monitoring proposed	Air quality, Surface Water, Ground water & Noise level monitoring are being carried out.	Environmental monitoring carried out.
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Concurrent Backfilling of mined out area is continue. Air quality, Surface Water, Ground water & Noise level monitoring are being carried out.		

## 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	ROM mineral dispatched	ROM mineral dispatched	ROM mineral dispatched
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.
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### 8.0 Environment:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Yes	Yes	Utilized in plantation
8b	Concurrent use or storage of topsoil	In plantation	Utilized in Plantation	Utilized in plantation
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Only backfilling proposed	Backfilling continue	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling 0.5 Ha	Backfilling 0.2 Ha	Backfilled area Rehabilitation by plantation
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling 0.5 Ha	Backfilling 0.2 Ha	Backfilled area Rehabilitation by plantation
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1000 nos. of plantation in 2022-23	1010 nos. of tree planted in 2022-23	Cumulative 44969 trees planted
8g	Survival rate	Not specified	Survival rate93%	Survival rate93%
8h	Water sprinkling on roads to control airborne dust	Water tanker	Water sprinkling on roads through water tanker.	Water sprinkling on roads through water tanker.
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 Sept 2023		
		AR submitted up to FY 2022-23		
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	Mining Engineer: Appointed. Shri Bhupesh Paliwal Geologist: appointed. Ms. Disha Shetgaonkar Manager: appointed. Shri R	Mining Engineer and Geologist appointed	Mining Engineer and Geologist appointed



		P S Bhatia.		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered Pit: 17.11 Ha., Area occupied by infrastructure and roads/ railway etc.: 1.0 Ha etc.	Area covered Pit: 17.11 Ha., Area occupied by infrastructure and roads/ railway etc.: 1.0 Ha etc	Land use pattern for area under pits, reclaimed area, dumps etc. furnished in AR
9d	Scrutiny of Annual return on afforestation	No of trees planted: 1010	No of trees planted: 1010	No of trees planted: 1010
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or grade ore	ROM Stock Nil	ROM Stock Nil	ROM Stock Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex- mine price Rs. 341.75 per ton	Ex- mine price Rs. 341.75 per ton	Ex- mine price Rs. 341.75 per ton
9i	Scrutiny of Annual return on Fixed assets	Rs. 265519677	Rs. 265519677	Rs. 265519677
9k	Scrutiny of Annual return on mining Machineries	Shoval-4 Dumper-5 Rock drilling machine-1 Dozer-1 Front loader-2	Shoval-4 Dumper-5 Rock drilling machine-1 Dozer-1 Front loader-2	Shoval-4 Dumper-5 Rock drilling machine-1 Dozer-1 Front loader-2

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

No Violation of serious nature is observed during the inspection.

Date: 05/03/2024

Signature:

Name: D. Upadhyay  
Designation: DCOM