

MCDR INSPECTION REPORT**1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation	S. Kartikeya, Jr. Mining Geologist, Indian Bureau of Mines, Raipur
2	Accompany with Mine Officials	Shri Mayank Saini, AGM (Mines) Shri Kamlesh Chandrakar, Manager (Geology)
3	Date of inspection	02/12/2019
4	Name of the Mine	Guma Limestone Mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest: NIL Non-Forest: 157.122 Ha. Total Lease Area: 157.122 Ha.
6	Mine Code	38CHG19004
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/441/2011
8	Name of the lessee, Address, phone, email and fax number	M/s UltraTech Cement Limited Address - 'B' Wing, Ahura Centre, 2nd floor, Mahakali Caves Road, Andheri (E), Mumbai 400093 Fax No.: +91 (0) 22 - 66928109 Phone No.: +91 (0) 22 - 66917800 Email - ajit.ostwal@adityabirla.com
9	Village	Guma
10	Taluka / Mandal / District	Tehsil: Palari, District: Balodabazar-Bhatapara
11	State	Chhattisgarh
12	Post office & PIN	Guma, Pin Code: 493196
13	Nearest police station	Suhela
14	Nearest Railway station	Bhatapara
15	Date of Grant of Mining Lease	27/12/2016, 07/01/2017 to 06/01/2067 (50 Years)
16	Date of Execution	07/01/2017
17	Date of opening of Mine	01/11/2018
18	Date of first Renewal, if applicable and its period & expiry	Not applicable.
19	Date of second Renewal, if applicable and its period & expiry	Not applicable
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri K. C. Jhanwar, Deputy Managing Director 'B' Wing, Ahura Centre, 1st Floor, Mahakali Caves Road, Andheri (E), Mumbai 400093 Fax No.: +91 (0) 22 - 66928109 Phone No.: +91 (0) 22 - 66917800 Email - ajit.ostwal@adityabirla.com Date of Appointment: 19/10/2018
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Kushal Chandra Jain, Vice President UltraTech Cement limited, (Unit: Rawan Cement Works) Rawan Jhipan Limestone Mine,

File No. CHG/BBR/LST-38CHG19004

		P.O. Grasim Vihar, Rawan District: Balodabazar-Bhatapara (Chhattisgarh) Pin Code: 493 196 Phone: +91 (0) 7726 – 288217 to 220 Mobile: +91 (0) 9904201127 Fax: +91 (0) 7726 – 288215 Email: kushal.jain@adityabirla.com Date of Appointment: 28/11/2017
23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Gopi Chand Dhayal UltraTech Cement limited, (Unit: Rawan Cement Works) Rawan Jhipan Limestone Mine, P.O. Grasim Vihar, Rawan District: Balodabazar-Bhatapara (Chhattisgarh) Pin Code: 493 196 Phone: +91 (0) 7726 – 288217 to 220 Fax: +91 (0) 7726 – 288215 Email: gopi.dhyal @adityabirla.com Date of Appointment: 14/10/2019
24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Gopi Chand Dhayal Qualification: AMIE (Mining) Experience: +27 years UltraTech Cement limited, (Unit: Rawan Cement Works) Rawan Jhipan Limestone Mine, P.O. Grasim Vihar, Rawan District: Balodabazar-Bhatapara (Chhattisgarh) Pin Code: 493 196 Phone: +91 (0) 7726 – 288217 to 220 Fax: +91 (0) 7726 – 288215 Email: gopi.dhyal@adityabirla.com Date of Appointment: 14/10/2019
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes appointed. Shri Avijit Maji Qualification: M.Sc. (Geology) Experience: +6 years UltraTech Cement limited, (Unit: Rawan Cement Works) Rawan Jhipan Limestone Mine, P.O. Grasim Vihar, Rawan District: Balodabazar-Bhatapara (Chhattisgarh) Pin Code: 493 196 Phone: +91 (0) 7726 – 288217 to 220 Mobile: +91 (0) 8986654704 Fax: +91 (0) 7726 – 288215 Email: avijit.maji@adityabirla.com Date of Appointment: 01/11/2018
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan approved vide letter no. 314(3)/2010/MCCM(CZ)MP-25 Nagpur dated 14/02/2011 Proposal Period: 2016-17 to 2020-21
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in	NIL, as the period of Mining Plan will be valid up to 31/03/2021.

	approval letter, if any.	
28	Mineral(s) granted in lease and proved for mining	Limestone
29	Method of Mining (Opencast, Underground)	Opencast
30	Category (Fully Mechanised, Others or Manual)	Category 'A' Fully Mechanised
31	Captive/Non Captive	Captive
32	Existing EC Limit and validity	Limestone Production 3.20 Million Tonnes Per Annum obtained from the Impact Assessment Division, Ministry of Environment, Forest & Climate Change, Government of India, vide letter no. J-11015/68/2010-IA.II(M) New Delhi dated 09/11/2016. Valid up to 06/01/2067.
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Mine Development and Production Agreement has been made on 30/12/2016 for Rs. 22,51,04,655/- vide BG No. 047GM0116364002 Dated 29/12/2016

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration has been proposed in the approved document during F.Y. 2018-19.	2017-18: 76 nos. of core boreholes have been drilled with the cumulative depth of 3563.50 meters at 150x150 meter grid interval.	Earlier boreholes have been replaced with the new boreholes. The entire lease area has been explored under G1 level.
1b	Exploration over lease area for Geological axis 1 or 2.	-do-	Under G1 Category: 157.122 Ha During F.Y. 2017-18	-
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not mentioned in the approved document.	2017-18: Central drilling Associates, Nagpur (Maharashtra)	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	No exploration has been proposed in the approved document during F.Y. 2018-19.	The entire lease area has been explored under G1 level with the 76 nos. of core boreholes during F.Y. 2017-18 with 150m x 150 m grid interval.	-

1e	Balance reserves as on 01.04.2019 (in Million Tonnes)	Under (111): 62.160 Million	Under (111): 62.160 Million	NIL production has been reported during F.Y. 2018-19
1f	General remarks of inspecting officer on geology, exploration etc.	NIL		

2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location)	In between UTM co-ordinates 2018-19: N2387254 to N2387890 and E609873 to E610653 RL 272 to 240	In between UTM co-ordinates 2018-19: (1) N2387540 to N2387810 and E610020 to E610350 (2) N2387652 to N2387788 and E609756 to E609800	-
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	OB/Topsoil: 01 no. Mineral: 03 no.	OB/Topsoil: 01 no. Mineral: 01 no.	-
2c	Stripping ratio or ore to OB ratio	1:0.20	NIL	NIL production has been reported during F.Y. 2018-19
2d	Quantity of topsoil generation in m3	2018-19: 184000.00 CuM	2018-19: 79191.00 CuM	-
2e	Quantity of overburden generation in m3	166667.00 CuM	107511.11 CuM	-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	No production has been done in the Mine. Mine has been opened on 01/11/2018.		

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01 no.	02 nos.	-
3b	Quantity of ROM mineral production proposed	3000000.00 Metric Tonnes	NIL	NIL production has been reported during

File No. CHG/BBR/LST-38CHG19004

				F.Y. 2018-19
3c	Recovery of salable/usable mineral from ROM production	92%	NIL	-do-
3d	Quantity of mineral reject generation	Screen Reject: 240000.00 Metric Tonnes	NIL	-do-
3e	Grade of mineral reject generation and threshold value declared	Grade of Mineral Reject has not been mentioned in the approved document.	Not applicable.	-
3f	Quantity of sub-grade mineral generation	As per the approved document, no Mineral Sub-graded ore/mineral will be generated during plan period.	Not applicable.	-
3g	Grade of sub-grade mineral generation	Grade of Mineral Sub-grade has not been mentioned in the approved document.	Not applicable.	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised crushing and screening has been proposed in the approved document for segregation of Ore/Mineral from ROM.	NIL production has been reported during F.Y. 2018-19	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation study has been proposed in the approved document during plan period.	Not applicable.	-
3j	Provision of drilling & blasting in mineral benches	Dia: 152 mm Spacing: 7.5 m Burden: 4.0 m Depth 8.0 m	NIL production has been reported during F.Y. 2018-19	-
3k	Provision of mining machineries in mineral benches	<ol style="list-style-type: none"> L&T 300 CKD Excavator 05 nos. with 3.9 CuM bucket capacity Atlas Copco Rock 	<ol style="list-style-type: none"> Excavator 03 nos. with 0.9 CuM bucket capacity Dozer 01 no. with 230 HP capacity Dumpers 09 	NIL production has been reported during F.Y. 2018-19

		<p>Breaker 01 no. with HB 4200</p> <p>3. HM 2071 Loader 01 no. with 5.74 CuM bucket capacity</p> <p>4. EUCLID, EH- 600 Dumper 11 to 14 nos. with 35.0 Metric Tonnes capacity</p> <p>5. DM-30 Drilling Rig 01 no. with 152 mm dia capacity</p> <p>6. ICM-260 Drilling Rig 01 no. with 115 mm dia capacity</p> <p>7. BEML-155 Dozer 01 no. with 350 HP capacity</p> <p>8. Tata Truck Water Tanker 01 no. with 12000 liters capacity</p> <p>9. Tata Truck Diesel Tanker 01 no. with 9000 liters capacity</p> <p>10. Tata Truck Explosive Van 01 no. with 9.45 Metric Tonne capacity</p> <p>11. Voltas Tyre Handler 01 no. with 3.0 Tonnes capacity</p> <p>12. L&T 1107D Vibromax 01 no. with 110 HP capacity</p>	<p>nos. with 16.00 Metric Tonnes capacity</p>	
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		13. Dewatering Pump 05 nos.		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Topsoil/OB: 2.0 m to 3.0 m Mineral/Ore: 8.0 to 10.0 m	Topsoil/OB: 2.0 m to 3.0 m Mineral/Ore: NIL	NIL production has been reported during F.Y. 2018-19
3m	Total area covered under excavation/pits	43.0 Ha. up to end of plan period.	7.020 Ha. up to end of F.Y. 2018-19	-
3n	Ore to OB ratio for the pit/mine during the year	1:0.20	NIL	NIL production has been reported during F.Y. 2018-19
3o	Total area put in use under different heads at the end of year	Pit- 43.04 Ha. Waste/reject- 5.81 Ha. Others- 13.55 Ha. Up to end of plan period.	Pit- 7.020 Ha. Waste/reject- 3.090 Ha. Others- 2.19 Ha. Up to end of F.Y. 2018-19	-
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2016-17: 1000000.00 Metric Tonnes Yr- 2017-18: 2000000.00 Metric Tonnes Yr- 2018-19: 3000000.00 Metric Tonnes	Yr- 2016-17: NIL Metric Tonnes Yr- 2017-18: NIL Metric Tonnes Yr- 2018-19: NIL Metric Tonnes	Mine has been opened on 01/11/2018. NIL production has been reported during F.Y. 2018-19
3q	General remarks of inspecting officer on method of mining etc.	NIL		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Proposal has been given in the approved document for separate dumping of Topsoil, OB, Waste and Mineral Reject/Screen Reject.	The Limestone and Topsoil has been dumped with the overburden and waste material obtained during mining operations. A certain quantity of limestone mixed with waste rock has been	Deviation has been pointed out.

			utilised for construction of crusher ramp.	
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	In between UTM co-ordinates Temporary Screen Reject Dump-1: N2387875 to N2388068 and E609733 and E609918 Temporary Screen Reject Dump-2: N2387503 to N2387650 and E609517 to E609720 Temporary Waste Dump: N2386600 to N2386823 and E610400 to E610735	2018-19: Stacking of topsoil and OB has been done In between UTM co-ordinates without any approved proposal. OB/Topsoil: N2387580 to N2387820 and E610408 and E610860 2019-20: Mineral/Ore: N2387600 to N2387900 and E609600 to E609900	Deviation has been pointed out.
4c	Number of dumps within lease area and outside lease area	Within Lease Area: Screen Reject: 02 nos. Waste: 01 no.	Within Lease Area: Screen Reject: NIL Waste: NIL Topsoil/OB: 01 no.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Locations of dumping areas have been selected within ultimate pit limit. Hence, temporary dumping of the mineral/screen reject and waste have been proposed in the approved document.	Dump of topsoil and OB has been done within ultimate pit limit.	
4e	Number of active & alive dumps	03 nos.	01 no.	-
4f	Number of dead dumps	No dead dumping has been proposed in the approved document.	Not applicable.	-
4g	Number of dumps stabilised	Proposal has not been given in the approved document for stabilization of dumps.	Not applicable.	-
4h	Whether Retaining wall or garland drain all along dumps are there	Proposal for construction of garland drain and	Retaining wall and garland drain are being constructed	-

		settling pond along waste dump has been given in the approved document.	along with topsoil dump.	
4i	Length of Retaining wall or garland drain all along dump	Length of Retaining wall and garland drain has not been mentioned in the approved document.	Not applicable.	-
4j	Number of settling ponds	Proposal for construction of settling pond along waste dump has been given in the approved document.	Not constructed.	
4k	Specific comments of inspecting officer	NIL		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Proposal has been given in the approved document for full extraction of mineral before backfilling.	production has been reported during F.Y. 2018-19	-
5b	Area under backfilling of mined out area	Proposal has not been given in the approved document for backfilling.	Area not matured for backfilling.	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Concurrent use of topsoil for plantation purpose has been proposed in the approved document.	Topsoil and OB has been staked within UTM co-ordinates N2387580 to N2387820 and E610408 and E610860.	NIL plantation has been done during F.Y. 2018-19.
5d	Total area fully reclaimed & rehabilitated	Proposal has not been given in the approved document for reclamation and rehabilitation.	Area not matured for reclamation and rehabilitation.	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	NIL		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23. Details should be given in the format as given in Annexure-20.	Report submitted on due time.	Given information has been cross verified during inspection.	-
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	1.636 Ha. 3.273 Ha. 4090 nos. 8180 nos. By Plantation Rs. 8,99,800/-	Not done Not done Not done NIL Not done	Deviation has been pointed out.
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	Proposal has not been given in the approved document for reclamation and rehabilitation.	Area not matured for reclamation and rehabilitation.	-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	-do-	-do-	-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been given in the approved document for periodic monitoring of Ambient Air Quality, Water and Noise Vibration.	Being done as per proposal.	-
6f	General remarks of inspecting officer on PMCP compliance & progressive	NIL		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Mechanised Crushing and Screening has been proposed in the approved document for grade wise sizing and sorting before its dispatch.	NIL production and dispatch has been reported during F.Y. 2018-19.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	-do-	-do-	-
7c	Different grade of mineral sorted out at mines	-do-	-do-	-
7d	Any beneficiation process at mines	No beneficiation study has been proposed in the approved document during plan period.	Not applicable.	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	NIL		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	Proposal has been given in the approved document for separate removal of topsoil and its utilization for restoration of the ground as well as for plantation purpose.	NIL Plantation has been done during F.Y. 2018-19	Deviation has been pointed out.
8b	Concurrent use or storage of topsoil	-do-	-do-	-do-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Proposal has been given in the approved document for separate stacking of OB, Waste Rock and Mineral Reject/Screen Reject.	(1) Topsoil and OB has been staked within UTM co-ordinates N2387580 to N2387820 and E610408 and E610860. (2) A certain quantity of Mineral/Ore mixed with waste rock has been consumed / used for construction of Crusher Ramp.	Deviation has been pointed out.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the	Proposal has been given in the approved document for use of	Area not matured for its restoration.	-

	land to its original use	overburden and waste rocks for ground restoration to its original use after full extinction of the mineral from the lease area.		
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposal has been given in the approved document for phase restoration of the land at 7.5 m barrier zone through plantation.	NIL Plantation has been done during F.Y. 2018-19	Deviation has been pointed out.
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	2018-19: 4090 nos. of saplings will be planted in 1.636 Ha. area at 7.5 m barrier zone.	NIL Plantation has been done during F.Y. 2018-19	Deviation has been pointed out.
8g	Survival rate	Not mentioned in the approved document.	-do-	-do-
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling through water tanker.	Being done as per proposal.	-do-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	NIL		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – December 2019 A.R. submitted upto- F.Y. 2018-19	NIL

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: Shri Mukesh Thawait Geologist: Shri Aviji Maji Manager: Shri Mukesh Kumar Thawait	Mining Engineer: Shri Mukesh Thawait Geologist: Shri Aviji Maji Manager: Shri Mukesh Kumar Thawait	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 7.020 Ha. Waste/reject- 3.090 Ha. Others- 2.19 Ha.	Pit- 7.020 Ha. Waste/reject- 3.090 Ha. Others- 2.19 Ha.	NIL
9d	Scrutiny of Annual return on Afforestation	2018-19: NIL	2018-19: NIL	Deviation has been pointed out.

9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject: NIL Grade has not been mentioned in the returns.	Mineral Reject: NIL	Screen Reject has been considered as Mineral Reject.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock: ROM: NIL Graded Ore Cement Grade Limestone: 869889.580 Metric Tonnes	Closing Stock: ROM: NIL Graded Ore Cement Grade Limestone: 869889.580 Metric Tonnes	Closing stock has been obtained from the monthly return for the month of December 2019
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value: NIL Ex-Mine Price: NIL Cost of Production: Nil	NIL Production and Dispatch has been reported for F.Y. 2018-19.	NIL
9i	Scrutiny of Annual return on fixed assets	Rs. 613615905/-	Rs. 613615905/-	NIL
9k	Scrutiny of Annual return on mining machineries	Given in the annual returns.	Cross verified from the field log books.	NIL

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

Outstanding violation Rule 11(1) of MCDR, 2017 for stacking of Mineral/Ore within the lease area, without any approved proposal.

Date of Last Inspection, Name and Designation of the Inspecting Officer:

Shri R. K. Das, Sr. Asstt. Controller of Mines, Date of Inspection: 29/07/2019

Details of the Violations Pointed-out during Inspections:

The present inspection has been done under the pursuance of the submitted Modified Mining Plan under rule 17(3) of MCR, 2016.

Show Cause Letter has been issued vide letter no. CHG/BBR/LST-38CHG19004 Raipur dated 23/01/2020. Hence, no violation letter has been issued.

(Name of the Inspecting Officer and Designation and Date)

Shaival Kartikeya
Jr. Mining Geologist
Indian Bureau of Mines, Raipur
Date of inspection: 02/12/2019