

## MCDR INSPECTION REPORT

**File No: CHG/BBR/LST-38CHG19004**

### **General**

<b>S.N.</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Mine Date of Inspection: Name of Inspecting Officer Accompany with Mine Officials	Guma Limestone Mine 12/10/2020 Rudra N. Mishra (Senior Mining Geologist) Shri Mayank Saini , AGM, Mines.
2	Last Date of Inspection	02/12/2019
3	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest land : NIL Non forest Land : 157.122 ha Total lease area: 157.122 Ha
4	Mine code	38CHG19004
5	IBM Registration Number under rule 45 of MCDR,1988	IBM/441/2011
6	Name of the Lease, Address, Phone, email and fax number	M/S Ultratech Cement Limited, Ahura Centre, B Wing, 2nd floor, Mahakali Caves Road Andheri (E) Mumbai 400093. Fax No - 02266928109 Phone No- 02266917800 Email - <a href="mailto:ajit.ostwal@adityabirla.com">ajit.ostwal@adityabirla.com</a>
7	Village	Guma
8	Taluka/Mandal	Palari
9	District	Balodabazar
10	Pin code	Guma, 493196
11	State	Chhattisgarh
12	Post Office	Suhela
13	Nearest Police Station	Balodabazar
14	Nearest Railway Station	Bhatapara
15	Date of Grant of Mining Lease	27.12.2016
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	NA
19	Date of Second Renewal, if applicable and its period & expiry	NA
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. K.C. Jhanwar Ahura Centre, B Wing, 2nd floor, Mahakali Caves Road Andheri (E) Mumbai 400093. Mobile- 9702474200 <a href="mailto:ajit.ostwal@adityabirla.com">ajit.ostwal@adityabirla.com</a> Date of appointment: 22.10.2018

22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri K. C. Jain M/S Ultratech Cement Limited, Unit: Rawan Cement Works Address- Village Rawan, Post office: Grasim Vihar, distt. Baloda Bazar –Bhatapara (C.G.) 493196 Phone No- 07726288208 Fax - 07726-281572 Kushal.jain@adityabirla.com Date of appointment: 28.11.2017
23	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri G.C. Dhyal, AMIE (Mining) Address- Village Rawan, Post office: Grasim Vihar, distt. Baloda Bazar –Bhatapara (C.G.) 493196 Phone No- 9887480263 Email- gopi.dhayal@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 the mine	Shri G.C. Dhyal, AMIE (Mining) Address- Village Rawan, Post office: Grasim Vihar, distt. Baloda Bazar –Bhatapara (C.G.) 493196 Phone No- 9887480263 Email- gopi.dhayal@adityabirla.com Date of appointment- 14.10.2019
25	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Shri Avijit Maji M.Sc. (Geology) Date of appointment- 05.11.2018
26	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	Date of Approval of Mining Plan 14.02.2011
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	NA
28	Mineral(s) granted in lease and approved for Mining	Limestone
29	Method of Mining (Opencast, Underground)	Opencast
30	Category (Fully Mechanized, Others or Manual)	Fully mechanised
31	Captive/Non-Captive	Captive mine
32	Environmental Clearance	3.2 Million tonnes

### **Exploration**

S.N.	Item	Proposals (2019-20)	Actual Work (2019-20)	Remarks
1a	Backlog of previous year	NA	NA	Entire lease area converted in G1 Category
1b	Exploration over lease area for Geological axis 1 or 2.	-	Under G1(76) Category: 157.122 Ha	

1c	Exploration Agency & Expenditure in Lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	NA	NA	
1e	Balance reserves as on 01.04.2020	Under (111): 65.56 Million Tonnes		
1f	General remarks of Inspecting officer on geology, exploration etc.	The Limestone deposit of Guma mines belongs to Chandi Limestone Formation of Raipur group of Chhattisgarh supergroup. The Limestone strata have a regional strike of NE-SW with a gentle dip of 5° to 6°. Generally grey colour massive limestone is found. The deposit is structurally undisturbed since basin deposition. The limestone of the area is fine grained, massive hard and compact in nature. Entire lease area converted in G1 Category.		

### Development

S.N .	Item	Proposals (2019-20)	Actual Work (2019-20)	Remarks
2a	Location of Development w.r.t. lease area	N2387400 to 2387890 E 609879 to 610752 264 RL to 248 RL	N2387540 to 2387810 E610018 to 610346 264 RL to 259 RL	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in topsoil, overburden and mineral.	As Per Plan	
2c	Stripping ratio or ore to OB ratio	1:0.18	1:0.12	
2d	Quantity of topsoil generation in m <sup>3</sup>	201000 m <sup>3</sup>	43448 m <sup>3</sup> (78206 MT)	
2e	Quantity of overburden generation in m <sup>3</sup>	300000.00	27189 m <sup>3</sup>	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development is in order.		

### Exploitation

S.N .	Item	Proposals (2019-20)	Actual Work (2019-20)	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of Limestone mineral production proposed (2019-20)	3500000 Tonnes	1065155.40 Tonnes	
3c	Recovery of Salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	280000	NIL	
3e	Grade of mineral reject generation	CaO < 34%	CaO < 34%	

	and threshold value declared	MgO> 4%	MgO>4%	
3f	Quantity of sub-grade mineral generation	Not Proposed in approved document	NIL	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual/Mechanized method adopted for segregation from ROM	Single stage Crusher	Single stage Crusher	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	Yes Blasting – Non-Electrical Sequential firing with SME	Yes Blasting – Non-Electrical Sequential firing with SME	
3k	Provision of mining machineries in mineral benches	Shovel – 4 Nos. Dumper- 12 Nos.	Shovel – 4 Nos. Dumper- 12 Nos.	
3l	Whether height of benches in overburden & mineral suitable for method of mining proposed in MP/SOM	Yes, Ore benches Proposed – 8-10 M	Yes, Ore benches Proposed – 8-10 M	
3m	Total area covered under excavation /pits	28.10 ha	7.02 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.18	1:0.12	
3o	Total area put in use under different heads at the end of year	47.46 Ha.	15.46 Ha.	
3p	Production of Limestone mineral during last Four years period, as Applicable (in tons)	2016-17	1000000	0.00
		2017-18	2000000	0.00
		2018-19	3000000	0.00
		2019-20	35000000	1065155.40
3q	General remarks of inspecting officer on method of mining etc	As per monthly return of Oct _2020: Opening Stock : 1269432.02 Tonnes, Production : 149147.210 Tonnes, Dispatches from mine head: 63538.570 tonnes, Closing Stock: 1355040.66. Ex Mine price reported month of Oct_2020 : Rs 158.26 Method of mining is Open cast mechanized mining with shovel dumper combination. Mine has been opened on 01/11/2018.		

### **Solid Waste Management-Dumping**

S.N.	Item	Proposals (2019-20)	Actual Work (2019-20)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate dumping of topsoil-along the lease boundary. Separate dump for OB &	Separate dumping of topsoil & OB done along the lease boundary. OB used for mine development (Road).	

		mineral reject Proposed.	Mineral Reject generation -NIL	
4b	Location of topsoil, OB & mineral reject dumps	Dump (O.B.) N 2386826 to 2386600 E610397 to 610737 Reject Dump1 - N 2388068 to 2387871 E 609732 to 609919 Reject Dump 2 - N 2387649 to 2387361 E 609519to 609798	Top soil- Stacked at N – 2387354-2387561 E – 610953.9-611154  OB/Waste Dump N-2387180-2387439 E-610601.6-610984	
4c	Number of Dumps within lease area and outside lease area	03 nos. within lease area	02 within lease area.	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Covered in 4b (Marked as temporary Dump)	Covered in 4b (Present Top Soil Dump/Stack shall be used for plantation)	
4e	Number of Active & Alive dumps	03	02	
4f	Number of deed dumps	0	0	
4g	Number of dumps established	Dumps have not been matured for stabilisation	Dumps have not been matured for stabilisation	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed in approved document	Garland drain or Retaining wall provided	
4i	Length of Retaining wall or garland drain all along dump	Not Proposed in approved document	Length of garland drain all along dump is 700 mtr.	
4j	Number of settling ponds	03	01	
4k	Specific commends of inspecting officer on waste dump management	Waste is being dump at designated place as per approved documents.		

### **Solid Waste Management-Backfilling**

S.N.	Item	Proposals (2019-20)	Actual Work (2019-20)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not Proposed in approved document	Area not matured for backfilling	
5b	Area under backfilling of mined out area	NIL	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined	NIL	NIL (Top soil used for	

	out area (Rule 32)		plantation at lease boundary and remaining is being stack)	
5d	Total area fully reclaimed & rehabilitated	2 Ha	2 Ha. Plantation done	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area not matured for backfilling and reclamation & rehabilitation.		

### **Progressive Mine Closer Plan**

S. N.	Item	Proposals (2019-20)	Actual Work (2019-20)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26 (2) of MCDR 2017. Details should be given in the format as given in Annexure-20	Yes	Yes,	
6b	Management of worked/mined out benches	NIL	NIL	
	Area available for rehabilitation (Ha)			
	Afforestation done (ha)			
	No. of saplings planted during the year			
	Cumulative no. of plants			
	Any other specific method of rehabilitation			
	Cost incurred on watch & care during the year			
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L*B*D) ii) Void filled by waste/tailings iii) Afforestation on the backfilling iv) Rehabilitation by making water reservoir v) Any other specific means	NIL	NIL	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	(i) 5000 Nos./2 Hec. Plantation at lease boundary	5000 Nos./2 Hec. Plantation at lease boundary	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Air wet Drilling, water check Dams, Noise control Blasting, In house	Air within Permissible limit, Water - within Permissible limit, Noise- within Permissible limit	

		environment monitoring cell		
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	PMCP proposal are implemented		

### Mineral Conservation

S.N.	Item	Proposals (2019-20)	Actual Work (2019-20)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Crusher and screening	ROM despatch to Baikunth Cement Work, Rawan Cement Work & Stock at lease area.	
7b	Method of grade-wise mineral sorting i.e., manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sort out at mine	Above 34% CaO grade Limestone	Above 34% CaO grade Limestone	
7d	Any beneficiation process at mines	screening the clayey-soil in the top bench	Crusher and screening are being done at site.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Crusher and screening are being done at site.		

### Environment

S.N.	Item	Proposals (2019-20)	Actual Work (2019-20)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Yes	Separate removal and utilization of topsoil is being done.	
8b	Concurrent use or storage of topsoil	Storage not proposed.	concurrent utilization & remaining topsoil is being stored/dumped	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Planned	Top soil stack separately and OB used for mine development (Road etc.)	
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	Not Proposed in approved document	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed in approved document	NA	

8f	Baseline information on existence of plantation & additional plantation done (Rule 44 of MCDR 2017)	Plantation within lease: 5000 nos	Within Lease area: 5000 nos	
8g	Survival rate	75%	75%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Centralised water sprinkling system on haul road and crusher	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	EMP parameters are regularly being monitored.		

### **Compliance of Rule 45**

<b>S. N.</b>	<b>Item</b>	<b>Comments</b>	<b>Remarks</b>
9a	Status of submission of monthly and Annual returns	M.R. Submitted upto– Nov -2020 A.R. submitted upto- 2019-20	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area Under Pit: 7.02 ha Use for waste disposal:3.09 ha Occupied by plant, building residential, welfare building & roads:1.610 ha Other purpose: 1.740 ha	
9d	Scrutiny of Annual return on afforestation	Within Lease area: 5000 nos Outside Lease area: Nil Survival Rate: 75%	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Mineral Reject generation:0.00 t Grade: less than 34%	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Opening Stock: Nil Limestone Production: 1065155.40 tones Closing Stock: 1007937.12 tones  As per monthly return of Oct _2020: Opening Stock: 1269432.02 Tonnes, Production: 149147.210 Tonnes, Dispatches from mine head: 63538.570 tonnes, Closing Stock: 1355040.66. Ex Mine price reported month of Oct_2020: Rs 158.26	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Cost of Production: Rs: 148.62 Captive Purpose only	
9i	Scrutiny of Annual return on Fixed assets	Fixed Assets: Rs 648204006.00	Mentioned in Annual Return



9k	Scrutiny of Annual return on mining Machineries	Type of Machinery	Nos. of Unit	Capacity
	Scrutiny of Annual return on mining Machineries	Shovel (Hydraulic)	4	0.910CUM
		Dumper	12	35.00t
		Blast Host Drill	2	115.00MM
		Tipper	12	14.00CUM
		Dozer	1	230.00Hp
		Wheel loader	1	3.00 CUM

10. Details of Violations observed during current inspection and compliance position of earlier violation pointed out: - No Serious Violation observed. Star rating of mines also evaluated.

Last Inspection Details: Shri S Kartikeya (Jr. Mining Geologist) on dated 02/12/2019.

Violations pointed out during last inspections had been complied.

Date: 14/12/2020

Name: Rudra Narayan Mishra

Designation: Senior Mining Geologist,  
Indian Bureau of Mines, Raipur.