

MCDR INSPECTION REPORT**1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation	Shri Rajesh Kumar Das, Sr. ACOM, Indian Bureau of Mines, Raipur.
2	Accompanying Mine Official with Designation	Shri Mayank Saini, AGM.
3	Date of inspection	16.07.2021
4	Name of the Mine	Guma Limestone Mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non-Forest-157.122 Ha. Forest- Nil
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, Ahura Centre, B Wing, 2nd floor, Mahakali Caves Road Andheri (E) Mumbai 400093. Fax No - 02266928109 Phone No- 02266917800 Email - ajit.ostwal@adityabirla.com
9	Village	Guma
10	Taluka / Mandal / District	Palari
11	State	Chhattisgarh
12	Post office & PIN	Guma, 493196
13	Nearest police station	Suhela
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 ajit.ostwal@adityabirla.com DOA: 22.10.2018
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Abhishek Sharma M/S Ultratech Cement Limited, Unit : Rawan Cement Works

File No. CHG/BBR/LST-38CHG19004

		Address- Village Rawan, Post office: Grasim Vihar, distt. Baloda Bazar –Bhatapara (C.G.) 493196 Phone No- 9494097260 Fax - 07726-281572 Email abhishek.osharma@adityabirla.com Date of appointment: 27.04.2021
23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri G.C.Dhayal ,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 mine	Shri G.C.Dhayal ,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 appointed 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 Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Date of Approval of Mining Plan 09.04.2021
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 proved for mining	Limestone
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanised, Others or Manual)	Fully mechanised
31	Captive/Non Captive	Captive mine
32	Existing EC Limit and validity	3.2 MTPA and NA
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	NA

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	NA	NA	

File No. CHG/BBR/LST-38CHG19004

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	-	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	
1e	Balance reserves as on 01.04.2021 (in Million Tonnes)	Under (111): 49.16 Million Tonnes Under (211): 23.451 Million Tonnes Under (331): 7.745 Million Tonnes	Under (111): 57 Million Tonnes Under (211): 63 Million Tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	The topography of the lease area is almost flat with general ground level as 264 mRL. The area is gently sloping towards northeast.		

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)	N2387300 to 2387890 E 609879 to 610869 264 RL to 248 RL	N2387540 to 2387810 E610018 to 610345 264 RL to 246 RL	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Separate benches in topsoil, overburden and mineral.	Complied	
2c	Stripping ratio or ore to OB ratio	1:0.18	1:0.12	As per Actual FY 2020-21
2d	Quantity of topsoil generation in m ³	193000 m ³	16488 m ³ (29678MT)	As per Actual FY 2020-21
2e	Quantity of overburden generation in MT	300000	6739m ³ (12130 MT)	As per Actual FY 2020-21
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development is very less w.r.t. proposal given.		

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01	01	

File No. CHG/BBR/LST-38CHG19004

3b	Quantity of ROM mineral production proposed	3500000 MT	1126277.93MT	
3c	Recovery of salable/usable mineral from ROM production	92%	100%	
3d	Quantity of mineral reject generation	280000	NIL	
3e	Grade of mineral reject generation and threshold value declared	Not mentioned specifically	-NA	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
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	Drilling & Blasting Proposed	Complied	
3k	Provision of mining machineries in mineral benches	Shovel, Dumper	Complied	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	43.04 ha	8.11 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	62.4 Ha.	17.926Ha.	
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	2016-17- 1000000 MT 2017-18- 2000000 MT 2018-19- 3000000 MT 2019-20 35000000MT 2020-21 35000000MT	NIL NIL NIL 1065155.40 MT 1126277.93 MT	

3q	General remarks of inspecting officer on method of mining etc.	The method of mining is broadly as per proposal by open cast method using shovel dumper combination with deep hole drilling blasting.
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4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Separate dumping of topsoil-along the lease boundary. Separate dump for OB & mineral reject Proposed.	Separate dumping of topsoil & OB done along the lease boundary. OB used for mine development (Road). Mineral Reject generation -NIL	
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	Top soil Dump- Not Proposed. Dump (O.B.) N 2386830 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-2387580-2387820 E-610409-610908	
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 14)	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 dead dumps	0	0	
4g	Number of dumps stabilised	0	0	
4h	Whether Retaining wall or garland drain all along dumps are there	NIL	yes	
4i	Length of Retaining wall or garland drain all along dump	NIL	1721-mtr Garland drain around the dump and about 700-mtr retaining wall constructed.	
4j	Number of settling ponds	03 (One for each Dump)	01	

4k	Specific comments of inspecting officer on waste dump management.	The waste generation is very less compare to proposal but still dump stack as per proposal.
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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	NIL (for first Five year)	NIL	
5b	Area under backfilling of mined out area	NIL	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	NIL	NIL (Top soil used for plantation at lease)	
5d	Total area fully reclaimed & rehabilitated	2 Ha.(Lease boundary Plantation)	2 Ha.Plantation done	
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 .	Yes	Yes	
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	NIL	NIL	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings	Nil Nil Nil	Nil Nil Nil	

	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 i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	2950 Nos./1.18 Hec. Plantation at lease boundary	3000 Nos./1.2 Hec. Plantation at lease boundary	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed	As per proposal	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Broadly as per proposal		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Mineral used for captive use	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 sorted out at mines	Based on software different grade material has been marked in slice plan.	Based on software & blast hole sampling result different grade material has been marked at site/map/blend plan.	
7d	Any beneficiation process at mines	As such, limestone beneficiation is not required except for screening the clayey-soil in the top bench	Crushing and screening is being done at site.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Nil		

8.0 Environment

File No. CHG/BBR/LST-38CHG19004

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	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 37)	Planned	Top soil stack separately and OB used for mine development (Road etc.)	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	NIL	
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)		NIL	
8g	Survival rate			
8h	Water sprinkling on roads to control airborne dust	12 KL Water tanker	Complied	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No adverse impact observed on aesthetic beauty in and around mines area		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – June'21 A.R. submitted upto- 2020-21	

S. N.	Item	Details given in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on	Mining Engineer , and Manager Shri	Nil	

File No. CHG/BBR/LST-38CHG19004

	Mining Engineer, Geologist and Manager	Gopal Chand Dhyal Geologist Shri Avijit Maji		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mine pit- 8.11Ha., Waste disposal:4.134 Ha., infrastructure:3.2 ha	Broadly as given	
9d	Scrutiny of Annual return on Afforestation	3000 nos	Nil	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	1411578.09 MT	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price & production cost Rs 187.32/-	Nil	
9i	Scrutiny of Annual return on fixed assets	Rs 651866336/-	In fixed asset plant & macheneries also included but all equipment are contractor base.	
9k	Scrutiny of Annual return on mining machineris	List of machineris given	Nil	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - The violation pointed out under Rule 11(1), 37(1) & 45(5)

Date of Last Inspection, Name and Designation of the Inspecting Officer: 12.10.2020,

Shri R. N. Mishra (Sr. Mining Geologist).

(Rajesh Kumar Das, Senior Assistant Controller of Mines)