

MCDR INSPECTION REPORT 2021-22

General:

Sl .No.	Particulars	Details
1	Name of the Mine	Guma Limestone Mine
2	Date of Inspection:	07/03/2023
3	Name of Inspecting Officer	Shri D. Upadhyay, Sr. ACOM, Indian Bureau of Mines, Raipur
4	Name of official accompanying inspection	Sri Prem Swami, Manager
5	Last date of Inspection & Officer	15.07.2021 Shri R K Das, Sr. ACOM
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non-Forest-157.122 Ha. Forest- Nil
7	Mine code	38CHG19004
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, Ahura Centre, B Wing,2nd floor, Mahakali Caves Road, Andheri (E) Mumbai 400093. Fax No - 02266928109 Phone No- 02266917800 Email - ajit.ostwal@adityabirla.com
10	Village	Guma
11	Taluka/Mandal	Palari
12	District	Baloda Bazar
13	Pin code	493196
14	State	Chhattisgarh
15	Post Office	Guma
16	Nearest Police Station	Suhela
17	Nearest Railway Station	Bhatapara
18	Date of Grant of Mining Lease	27.12.2016
19	Date of Execution	07.01.2017
20	Weekly day of rest	Sunday
21	Date of opening of Mine	01.11.2018
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 Ahura Centre, B Wing,2nd floor, Mahakali Caves Road, Andheri (E) Mumbai 400093. Mobile- 9702474200 ajit.ostwal@adityabirla.com DOA: 22.10.2018

26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Vinay S Chitale 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- 9922413048 Email vinay.chitale@adityabirla.com DOA: 12.11.2021
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Prem Swami, B. E. (Mining) Address- Village Rawan, Post office: Grasim Vihar, Distt. Baloda Bazar –Bhatapara (C.G.) 493196 Phone No- 9522017484 Email- prem.swami@adityabirla.com Date of appointment- 01.11.2022
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Prem Swami, B. E. (Mining) Address- Village Rawan, Post office: Grasim Vihar, Distt. Baloda Bazar –Bhatapara (C.G.) 493196 Phone No- 9522017484 Email- prem.swami@adityabirla.com Date of appointment- 01.11.2022
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Aditya Kumar Mohanta M. Tech. (Applied Geology) Date of appointment- 11.07.2022
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 approved vide letter no. □□□□□□□□□□/ □□□□/ □□□□/ 1279/ 2021/□□□□□□□□, dated 09.04.2021.
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 mechanised
35	Captive/Non-Captive	Captive
36	Present EC Status	3.2 MTPA
37	Status of Financial Assurance	Not Applicable as MDPA signed with State Govt.

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

1.0 Exploration:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	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	Entire lease area is explored under G1 Category
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not proposed	Nil	Entire lease area is explored under G1 Category
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not proposed	Nil	Entire lease area is explored under G1 Category
1e	Balance reserves as on 01.04.2022	Balance reserves as on 01.04.2022 is 57 Million Tonnes.	Balance reserves as on 01.04.2022 is 57 Million Tonnes.	Balance reserves as on 01.04.2022 is 57 Million Tonnes.
1f	General remarks of Inspecting officer on geology, exploration etc.	Entire lease area is explored under G1 Category by putting 96 nos. of bore holes of total meterage 4161.8m		

2.0 Development:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
2a	Location of Development w.r.t. lease area	E610031 to E610241, N2387704 to N2387886, 264 RL to 236 RL in Pit-1, E610386 to E6610612, N2387487 to N2387662, 264RL to 244 RL in Pit-2	E610031 to E610241, N2387559 to N2387836, 264 RL to 241 RL in Pit -1, E610405 to E610534, N2387493 to N2387693, 264 RL to 258 RL in Pit -2	Developmental is carried out within approved proposal.
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in overburden and mineral.	Separate benches in OB & Ore are maintained.	Separate benches in OB & Ore are maintained as per proposal.
2c	Stripping ratio or ore to OB ratio	1:0.10cu.m/T	1:0.04cu.m/T	Due to less production OB generated less.
2d	Quantity of topsoil generation in m ³	79629	25730	Due to irregular thickness quantity varies
2e	Quantity of overburden	95719cu.m	28525cu.m	Due to less

	generation in m ³			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 (2021-22)	Actual Work (2021-22)	Remarks
3a	Number of Pits proposed for production	Pit-1 & Pit-2	Pit-1 & Pit-2	02 nos. of pits proposed.
3b	Quantity of ROM mineral production proposed	1080000T	755254.620T	500000T Production proposed from dump working.
3c	Recovery of Salable/usable mineral from ROM production	1000000T	755254.620T	500000T Production proposed from dump working.
3d	Quantity of mineral reject generation	80000 Screen reject	Screening is not in operation. All the ROM is utilized for its captive Plant.	Screening is not in operation. All the ROM is utilized for its captive Plant.
3e	Grade of mineral reject generation and threshold value declared	Screen reject CaO: 30.23% MgO: 2.74% Threshold Value: CaO≥34%, MgO≤5%	Screening is not in operation. All the ROM is utilized for its captive Plant.	Screening is not in operation. All the ROM is utilized for its captive Plant.
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	Mechanised	Mechanised	Mechanised
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.	115 mm dia Drilling, Spacing-6m, Burden-3m.
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 and mineral	Yes	Yes	Bench height is suitably

	suitable for method of mining proposed in MP/SOM			matched with the excavator.	
3m	Total area covered under excavation /Pits	10.341Ha	10.05Ha		
3n	Ore to OB ratio for the Pit/mine during the year	1:0.10cu.m/T	1:0.04cu.m/T	Due to less production OB generated less.	
3o	Total area put in use under different heads at the end of year	Particulars	Proposed	Actual	Total area put in use under different heads at the end of year is 22.666 ha.
		Area under mining	10.341	10.05	
		Storage for top soil	4.5	3.302	
		Waste dump site	1.477	1.232	
		Mineral storage	2.482	2.482	
		Infrastructure – workshop, Administrative building etc.	1.12	1.12	
		Roads	2.08	2.08	
		i)Plantation	2.233	2.4	
		ii)Reject Stack	0.508	0	
	Total in ha	24.741	22.666		
3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	2017-18: 2000000MT	Nil	ROM production is consumed to its captive plant.	
		2018-19: 3000000MT	Nil		
		2019-20: 35000000MT	1065155.40 MT		
		2020-21: 35000000MT	1126277.93 MT		
		2021-22: 1000000MT	755254.62 MT		
3q	General remarks of inspecting officer on method of mining etc	The ROM production has been carried out from 02 pits as per proposal.			

4.0 Solid Waste Management-Dumping:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate dumping of topsoil, OB & mineral reject	Separate dumping of topsoil, OB & mineral reject is maintained	Separate dumping of topsoil, OB & mineral reject
4b	Location of topsoil, OB & mineral reject dumps	Top Soil: E610507-610733, N 2387586-2387753	Location of dumps are as per proposal.	Location of dumps are as per proposal.
		OB: E610179-610273, N2387007-2387061		
		Screen Reject: E610065-610208 N 2387170-2387242		
4c	Number of Dumps within lease area and outside lease area	Topsoil dump:2 OB dump:1	Topsoil dump:2 OB dump:1	Location of dumps are as

				per proposal.
4d	Location of Dumps w.r.t. ultimate Pit limit (Rule 16)	Top Soil: E610507-610733, 2387586-2387753 OB: E610179-610273, N2387007-2387061 Screen Reject: E610065-610208 N 2387170-2387242	Location of dumps are as per proposal.	Location of dumps are as per proposal.
4e	Number of Active & Alive dumps	03 Dumps	03 Dumps	03 Active Dumps
4f	Number of dead dumps	Not proposed.	Nil	Nil
4g	Number of dumps established	Not proposed.	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	Retaining wall and garland drain maintained.
4i	Length of Retaining wall or garland drain all along dump	Not specified	Retaining wall:100m and garland drain:410m constructed.	Retaining wall:100m and garland drain:410m constructed.
4j	Number of settling ponds	Not proposed.	Nil	Nil
4k	Specific commends of inspecting officer on waste dump management	Separate dumping of OB and top soil are maintained as per proposal. Retaining wall and garland drain maintained all along dump.		

5.0 Solid Waste Management-Backfilling:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
5b	Area under backfilling of mined out area	Not proposed	NIL	--do--
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	NIL	--do--
5d	Total area fully reclaimed & rehabilitated	Not proposed	NIL	--do--
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 (2021-22)	Actual Work (2021-22)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26 (2)	Yes	Yes	PMCP Submitted on 28.06.2022
6b	Management of worked/mined out benches	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
	Area available for rehabilitation (Ha)	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
	Afforestation done (ha)	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
	No. of saplings planted during the year	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
	Cumulative no. of plants	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
	Any other specific method of rehabilitation	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
	Cost incurred on watch & care during the year	Not proposed	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	Not proposed	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	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
6e	Compliance of Environment monitoring (core zone & buffer zone)	Quarterly monitoring	Quarterly monitoring	Quarterly monitoring
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 (2021-22)	Actual Work (2021-22)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM generated is cement grade and proposed to directly supply to Captive Cement Plant	ROM Generated is directly supplied to Captive cement plant	ROM Generated is directly supplied to Captive cement plant
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 generated is cement grade and proposed to directly supply to Captive Cement Plant	ROM Generated is directly supplied to Captive cement plant	ROM Generated is directly supplied to Captive cement plant
7d	Any beneficiation process at mines	Not proposed	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM Generated is directly supplied to its Captive cement plant.		

8.0 Environment:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Yes	As per proposal	As per proposal
8b	Concurrent use or storage of topsoil	Plantation	Plantation	As per proposal
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Yes	As per proposal	As per proposal
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Cumulative: 8000Nos. Additional: 583Nos.	1000No. of sapling planted, cumulative is 9000Nos.	1000No. of sapling planted, cumulative is 9000Nos.
8g	Survival rate	Not specified.	80%	Survival rate 80%
8h	Water sprinkling on roads to control airborne dust	Yes	Dedicated water tanker for water sprinkling	Dedicated water tanker for water sprinkling

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.
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9.0 Compliance of Rule 45:

SN	Item	Comments	Remarks	
9a	Status of submission of monthly and Annual returns	AR & MR submitted regularly.		AR & MR submitted regularly.
SN	Item	Details Given in A.R.	Observation of I/Officer	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per annual return Manager & Mining Engineer is Mr. G. C. Dhayal Geologist is Avijit Maji	Found in order.	Found in order.
9c	Scrutiny of Annual return on land use pattern for area under Pits, reclaimed area, dumps etc.	As per annual return 1. Area covered in OC mining- 10.05 ha. 2. Reclaimed & rehabilitated- 0.00- ha. 3. Used for waste disposal- 4.534 ha. 4. Occupied by plant, buildings etc.- 3.20 Ha. 5. Other purpose (mineral stock)-2.482 Ha. 6. Work done under PMCP- 1.6 Ha.	Found in order.	Found in order.
9d	Scrutiny of Annual return on afforestation	As per annual return Total nos of sapling planted 1000 nos in 0.4 ha	Found in order.	Found in order.
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Total mineral reject (screen reject) generated is nil.	Found in order.	Found in order.
9f	Scrutiny of Annual return on ROM stock and/or grade ore	ROM stock- Nil.	Found in order.	Found in order.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex mine price is Rs 222.93 /- per MT	Found in order.	Found in order.
9i	Scrutiny of Annual return on Fixed assets	Fixed asset is Rs 866037397/-	Fixed asset is Rs 866037397/-	Fixed asset is Rs 866037397/

				-																											
9k	Scrutiny of Annual return on mining Machineries	<table border="1"> <thead> <tr> <th>Equipment</th> <th>Capacity</th> <th>Nos.</th> </tr> </thead> <tbody> <tr> <td>Dozer</td> <td>230HP</td> <td>1</td> </tr> <tr> <td>Shovel</td> <td>0.910cum</td> <td>4</td> </tr> <tr> <td>Tipper</td> <td>14cum</td> <td>15</td> </tr> <tr> <td>Water Tanker</td> <td>20000Ltr</td> <td>1</td> </tr> <tr> <td>Wheel Loader</td> <td>3.0cum</td> <td>1</td> </tr> <tr> <td>Crusher</td> <td>250TPH</td> <td>1</td> </tr> <tr> <td>Blast Host Drill</td> <td>115mm</td> <td>2</td> </tr> <tr> <td>Other HEMM</td> <td>133</td> <td>1</td> </tr> </tbody> </table>	Equipment	Capacity	Nos.	Dozer	230HP	1	Shovel	0.910cum	4	Tipper	14cum	15	Water Tanker	20000Ltr	1	Wheel Loader	3.0cum	1	Crusher	250TPH	1	Blast Host Drill	115mm	2	Other HEMM	133	1	Found in order.	Found in order.
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10- Details of violations observed during inspection and the compliance status.

No violation was observed during inspection.

Date: 10/03/2023

Signature:
Name: D. Upadhyay
Designation: Sr. ACOM