

MCDR INSPECTION REPORT 2024-25**General:**

Sl .	Particulars	Details
	File No.	
1	Name of the Mine	Rawan-Jhipan limestone mines
2	Date of Inspection:	03.07.2024
3	Name of Inspecting Officer	Shri Prem Prakash, RCOM, IBM Raipur
4	Name of official accompanying inspection	Mr. Vinay S Chitale, Agent (Mines) Mr. Ramesh Kumar Nakum, Mines manager & Mining Engineer,(HOD Mines)
5	Last date of Inspection & Officer	05.09.2023, Shri D. Dash, Regional Mining Geologist, Indian Bureau of Mines, Raipur
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Lease area – 722.834 hect, Non-Forest area – 722.834 hect, Forest Area – Nil
7	Mine code	38MPR28018
8	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/441/2011
9	Name of the Lessee, Address, Phone, email and fax number	Name - M/s UltraTech Cement Limited Address - 'B" Wing, Ahura Centre 2nd floor, caves Road, Andheri (E), Mumbai 400093 Fax No - 02266928109 Phone No- 02266917800 Email - kailash.jhanwar@adityabirla.com
10	Village	Rawan, Jhipan, Pendri, Kadhidi and Phunderdih
11	Taluka/Mandal	Simga / Suhela
12	District	BalodaBazar - Bhatapara
13	Pin code	493196
14	State	Chhattisgarh
15	Post Office	Grasim Vihar, Rawan
16	Nearest Police Station	Suhela
17	Nearest Railway Station	Bhatapara
18	Mining Lease period	04.12.1993 to 03.12.2043
19	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. K.C. Jhanwar UltraTech Cement Limited Ahura Centre, A Wing, First Floor, Mahakali Caves Road, Andheri East, Mumbai 400093 Email: ajit.ostwal@adityabirla.com Phone No.: 022-66917421 Date of Appointment – 19/10/2018
20	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Vinay Sharad 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 Fax - 07726-281572 Email: vinay.chitale@adityabirla.com Date of appointment: 12.11.2021
21	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Ramesh Kumar Nakum Rawan Jhipan Limestone Mine, Grasim Vihar Rawan, District: Baloda Bazar-Bhatapara (Chhattisgarh) Phone no: 9824852314 Email: ramesh.nakum@adityabirla.com Date of Appointment: 10/11/2022
22	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Ramesh Kumar Nakum Qualification: Diploma (Mining) Total Experience: 20 years Rawan Jhipan Limestone Mine, Grasim Vihar Rawan, District: Baloda Bazar-Bhatapara (Chhattisgarh) Email: ramesh.nakum@adityabirla.com Phone no: 9824852314 Date of Appointment: 10/11/2022
23	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes
24	Date of Approval of Review/Scheme of Mining/Modified Review/Scheme of Mining with five- year period and specific condition in approval letter, if any.	i. Approval of Review of Mining Plan vide letter no RPR/BalodaBazar/ LST/1342/ RMP/2022-23 dated 28.02.2023 for 2023-24 to 2027-28. Approval of Modified Mining Plan vide letter no RPR/Baloda Bazar/LST/ 1388/MRMP/2023-24 dated 25.10.2023 for 2023-24 to 2027-28.
25	Mineral(s) granted in lease and approved for Mining	Limestone
26	Method of Mining (Opencast, Underground)	Opencast
27	Category (Fully Mechanized, Others or Manual)	Fully Mechanized

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

1.0 Exploration:

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
1a	Backlog of previous year proposals	No proposal	NIL	
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal	NIL	
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.	Nil	Nil	Entire area under G1 Category
1e	Balance reserves as on 01.04.2024 (in Million Tonnes)	Under 111: - 409.197 Under 211: -145.626		As per AR
1f	General remarks of Inspecting officer on geology, exploration etc.	No exploration has been proposed in the approved Review of Mining Plan during the financial year 2023-24. Entire area under G1 category. Total Reserve + Resource=. 554.824 (Million Tonnes)		

2.0 Development:

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
2a	Location of Development w.r.t. lease area	Development proposed in one (01) pit i.e. X=600911-603617 Y=2383245-2387212	Carried out in the proposed area.	
2b	Separate benches in topsoil overburden and mineral	Separate benches proposed in OB & mineral	Separate benches were maintained in OB & mineral	
2c	Stripping ratio or ore to OB ratio	1:0.26	1:0.33	Tonne:Cum
2d	Quantity of topsoil generation in m3	166756 Cum	163451 Cum	As reported by the Mines Manager
2e	Quantity of overburden generation in m3	942565 Cum	1218813 Cum	As reported in AR 2023-24
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Production & development was carried out within the proposed grids as per the approved plans. However, the Pit/mine has been developed haphazardly in selective and distorted manner. Moreover, large boulders (without using rock breaker or secondary blasting) observed lying over mine faces everywhere endangering safety of the men and machineries deployed. Violation of Rule 11(1) pointed out in this regard.		

3.0 Exploitation:

S. N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
3a	Number of pits proposed for production	01 Nos.	01 Nos.	
3b	Quantity of ROM mineral production proposed in tonne	7500000	6704850	
3c	Recovery of Salable/usable mineral from ROM production tonne	100%	100%	
3d	Quantity of mineral reject generation tonne	430112 MT	97129 MT	Simultaneously used CaO=34-38.3%
3e	Grade of mineral reject generation and threshold value declared	CaO grade in Mineral reject - 38	CaO grade in Mineral reject -34-38.3%	
3f	Quantity of sub-grade mineral generation	0	0	
3g	Grade of sub-grade mineral generation	0	0	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	No such study carried	
3j	Provision of drilling & blasting in mineral benches	Deep hole drilling and blasting proposed in mineral benches	Drilling and blasting were carried out in mineral benches as proposed.	
3k	Provision of mining machineries in mineral benches	Yes, HEMMs proposed	HEMMs deployed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes. Ht- 09 Mtr W-30 Mtr	Bench height and width have been maintained as per proposal	
3m	Total area covered under excavation /pits	260.25 Ha	255.003Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.26	1:0.33	
3o	Total area put in use under different heads at the end of year	339.81 Ha Upto Plan period (2027-28)	337.108 Ha Up to 2023-24	
3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	2019-20: 7500000 2020-21: 7500000	2019-20: 7113918 2020-21: 6373152	(All unit in MT) As per AR submitted

		2021-22: 7500000	2021-22: 7065536	
		2022-23: 7500000	2022- 23:6620773	
		2023-24: 7500000	2023-24: 6704850	
3q	General remarks of inspecting officer on method of mining etc.	Open cast working is being carried out by the deployment of HEMMs with the help of drilling and blasting.		

4.0 Solid Waste Management-Dumping:

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject	Separate dumping for topsoil, OB/Waste	Separate dumping for topsoil, OB/Waste carried out. Screen reject dumping has not been carried out systematically at the earmarked place as envisaged in the Modification to approved Review of Mining Plan.	Violation under Rule 11(1) issued in this regard.
4b	Location of topsoil, OB & mineral reject dumps	Top soil along the MLB North Soil Stack I- 2386821-2387030N & 603023-602722E Temporary South Dump-1 2384326-2384172N & 603010 - 603287E West Soil Stack 2384974-	Dumping carried out with in proposed area. However, Removal of waste, gradually from Temporary Waste Dump Central envisaged in the Modification to approved Review of Mining Plan (MRMP from year 2023-24	Violation under Rule 11(1) issued in this regard.

		<p>2385522N & 601372-601535E</p> <p>Temporary Crusher Screen fines Dump-2-2383910-2384029-N & 602580-602733 E</p> <p>New Dump Temporary North-2 2387077-2387247N & 602907-603032-E</p> <p>New Dump Temporary SOUTH -02</p> <p>2383245-2383451-N & 600866-601247E</p> <p>Temporary Mineral Reject / Subgrade</p> <p>2384473-2384572N & 603219-603263E</p>	has not been commenced so far.	
4c	Number of dumps within lease area and outside lease area	Within lease area -10	Within lease area -10	Dump and Stacks.
4d	Location of Dumps w.r.t. ultimate pit limit	Proposed beyond Ultimate pit limit	Beyond UPL	
4e	Number of Active & Alive dumps	09	09 (5-OB, 2-Screen Reject, 2 soil)	

4f	Number of dead dumps	01	01	Stabilized & plantation made.
4g	Number of dumps stabilized	01	01	Adequate plantation/flora observed.
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	250Mtr 2883 Mtr	275 mtr 2024 mtrs	Screen Reject dump-2. Without adequate protective measures. Violation under Rule 11(1) issued in this regard.
4j	Number of settling ponds	Nil	Nil	
4k	Specific commends of inspecting officer on waste dump management	Removal of waste, gradually from Temporary Waste Dump Central envisaged in the Modification to approved Review of Mining Plan (MRMP from year 2023-24 has not been commenced so far. Screen reject dumping has not been carried out systematically at the earmarked place as envisaged. Violation under Rule 11(1) issued in this regard.		

5.0 Solid Waste Management-Backfilling:

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	Based on the availability – to be used for spreading for Plantation	Top soil stored along the lease boundary and it is being used for plantation.	
5d	Total area fully reclaimed & rehabilitated	No proposal	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	The area is not fully exhausted for backfilling, reclamation, etc.		

6.0 Progressive Mine Closer Plan:

S. N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26 (2)	To be submitted before 01st	PMCP report received in time.	Annual report submitted on 28.06.2023

		July every year		
6b	Management of worked/mined out benches 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	No proposal	Nil	No area is mined out fully at present
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	No proposal	Nil	No area has matured for reclamation and rehabilitation purposes
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	i) 3105Nos of Saplings ii) 1.242ha iii) Plantation	i) 4850 Nos of Saplings ii) 1.25ha iii) Plantation	Gap filling done in the year 2023-24
6e	Compliance of Environment monitoring (core zone & buffer zone)	Environmental monitoring proposed.	Environmental monitoring was carried out.	Parameters were within the permissible limit.
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Annual PMCP report has been submitted. Plantation has been carried out as per proposal.		

7.0 Mineral Conservation:

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM Mineral will directly be dispatched from the lease area to the captive plant	ROM is being dispatched to their captive cement plant	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No proposal	Nil	

7c	Different grade of mineral sort out at mine	No proposal	Nil	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The limestone produced from the mine being fed to the captive cement plant.		

8.0 Environment:

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
8a	Separate removal and utilization of topsoil	Separate removal and utilization of topsoil proposed	Stacked and used for plantation purpose	
8b	Concurrent use or storage of topsoil	Concurrent use and storage	Stacked and used for plantation purpose	
8c	Separate dumps for overburden waste rock, rejects and fines	Separate dumps for Topsoil, OB/Waste proposed	Separate dumps are maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	No proposal	Nil	
8f	Baseline information on existence of plantation & additional plantation done	yes	Within lease area 4850Nos. & out side lease area 440 Nos of saplings have been planted	
8g	Survival rate	Not specified	78%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads through water tanker	Water sprinkling being carried out on haul roads to suppress the dust generated	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in & around the mine area maintained.		

9.0 Compliance of Rule 45:

SN	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	MR being submitted regularly		
		AR submitted up to FY 2023-24		
SN	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 is Mr. Ramesh Kumar Nakum & Geologist :- Shri Kamlesh Chandrakar	Employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<ol style="list-style-type: none"> 1. Area covered in OC mining- 255.003 ha. 2. Reclaimed & rehabilitated- 1.65- ha. 3. Used for waste disposal- 69.488 ha. 4. Occupied by plant, buildings etc- 8.579 Ha. 5. Other purpose (mineral reject/subgrade stock)-0.4 Ha. <p>Work done under PMCP- 1.25 Ha.</p>	Area covered in OC mining- about 255.003 ha.	
9d	Scrutiny of Annual return on afforestation	Within ML area Total 4850 nos of sapling planted	Within ML area Total 4850 nos of sapling planted	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	97129 Tonne	As per AR	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	ROM Opening Stock- Nil Production: 6607721 Closing Stock: Nil	As per AR	

9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex-Mine price and cost of production- Rs. 249.35 /Tonne Sale value- Nil	Captive consumption	
9i	Scrutiny of Annual return on Fixed assets	Rs 341534537/- including land, building, Plant and Machinery including transport equipment	Rs 341534537/- including land, building, Plant and Machinery including transport equipment	
9k	Scrutiny of Annual return on mining Machineries	Back hoe- 01 Nos, Shovel:-05 Nos Dumper-14 Nos, Drill machine -02 Nos., Dozer-04 No., Motor Grader-01 No.	Observed deployed	

10- Status of compliance of MCDR, 2017 including therewith the rectification of outstanding violation of the rules.

- (i) No violation pointed during earlier inspection.
- (ii) Violation of Rule 11(1) of MCDR, 2017 are pointed out after current inspection.

प्रेम प्रकाश / Prem Prakash
क्षेत्रीय खान नियंत्रक / Regional Controller of Mines
भारतीय खान ब्यूरो, रायपुर / Indian Bureau of Mines, Raipur