

INDIAN BUREAU OF MINES  
MINERALS DEVELOPMENT AND REGULATION DIVISION  
MCDR INSPECTION REPORT  
Jabalpur regional office

1	Name of Inspecting officer:	<b>Madhavrao Sabre</b>
2	Designation	Senior Mining Geologist
3	Accompanying mine official with Designation	Mr Subhash Chandra Nigam, Agent –Mines Mr Shailendra Kumar Yadav - Geologist Mr Sunil Sharma, Mining Engineer
4	Date of Inspection	18.08.2023
5	Previous Inspection date	First inspection after opening of mine.

**Part-I: General**

S.No	Particulars	Details
1	Name of the Mine	Borekhedi & Nayagaon Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	453.423 Govt. Waste Land- 99.981Ha., Private Land- 353.442Ha., Forest land: Nil.
3	Mine code	38MPR419001
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/441/2011
5	Name of the lessee, Address, Phone, email and fax number	UltraTechCementLimited Unit:VikramCementWorks,Post:Khor,Tehsil:Jawad,Dist:Neemuch,MadhyaPradesh 07420-230109 vcmail@adityabirla.com;subhash.nigam@adityabirla.com 07420-235524
6	Village	Borekhedi&Nayagaon
7	Taluka/Mandal	Jawad
8	District	Neemuch
9	Pin code	458470
10	State	Madhya Pradesh
11	Post Office	Khor
12	Nearest Police Station	Jawad
13	Nearest Railway Station	Jawad Railway Station
14	Date of opening of Mine	04.01.2023
15	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Kailash ChandraJ hanwar, Managing Director UltraTech Cement Ltd., IInd Floor,AhuraCentre, B Wing, Mahakali CavesRoad, Andheri ( East ),Mumbai-400093, Date of appointment : 02.11.2022 022-66917800, email :kailash.jhanwar@adityabirla.com
16	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Subhash Chandra Nigam, Appointment Date: 04.11.2022,UltraTechCementLtd.(Unit:VikramCementWorks),PO:Khor,The.:Jawad, Dist:Neemuch,M.P.,458470 , 07420-230109, subhash.nigam@adityabirla.com, 07420-235524 Mob :9669954545
17	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Sunil Kumar Sharma , 29.12.2022 UltraTechCementLtd.(Unit:VikramCementWorks), PO:Khor,The.: Jawad, Dist:Neemuch , M.P. , 458470, 07420-230565 sunil.kr.sharma@adityabirla.com ,07420-235524 9950938552
18	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Sunil Kumar Sharma, BE (Mining) , 17 Years experience , Date of appointment 29.12.2022
19	Whether Geologist (with details of appointment) and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as	Yes

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20	Date of Approval of Mine Plan/Modified Mine Plan with five-year period and specific condition in approval letter, if any.	MiningPlan-MP/Neemuch/Limestone/MPLN/G-12/2020-21/3263Dated27.11.2020 Modification-MP/Neemuch/Limestone/MPLN/MOD-24/22-23 dated 29/9/2022
21	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	Nil
22	Mineral(s) granted in lease and approved for Mining	Limestone
23	Method of Mining (Opencast, Underground)	Opencast
24	Category (Fully Mechanized, Others or Manual)	Fully Mechanised.
25	Captive/Non-Captive	Captive.

#### Details about Mining Plan/ Review of Mining Plan etc

a) Letter No. and date of approval of mining plan	:	MiningPlan-MP/Neemuch/Limestone/MPLN/G-12/2020-21/3263Dated27.11.2020, Modification-MP/Neemuch/Limestone/MPLN/MOD-24/22-23 dated 29/9/2022
b) Letter No. and date of approval of review of mining plan	:	-
c) Condition while approving the MP/ RMP/ modification	:	-
d) Period of mining plan/ mining scheme in force :	:	2020- 21to 2024-25 & 2022-23to 2024-25

#### PART III-MCDR Report details.

1. **Scientific Mining:** Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

#### Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year (before 2022-23)	91no./2827meter	9no./846meters	Violation pointed for short fall
1b	Exploration over lease area for Geological axis 1 or 2 (for 2022-23)	378.753ha area is under G1levelexploration & remaining 74.67 ha area is under G2 level	378.753 ha area	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year (for 2022-23)	-	BKAssociates,"OMBADRINATH",StreetNo.02,Ramdh amSociety,NearKarnatakaBank,Rajkot-360005, Rupees 19.3197/- Lakhs	
1d	Balance area to be explored to bring the Geological axis in 1 or 2. (for 2022-23)	To convert remaining 74.67ha area under G1 level 91nos. borehole proposals was given	9 nos of borehole drilled during the year. Rest exploration is continued till complete mineralized area is brought under G1 category	

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1e	Balance reserves as on 01.04.2023		121	53.669 MT	
			122	4.657 MT	
			211		
			221	204.453 MT	
			222	26.021 MT	
1f	General remarks of Inspecting officer on geology, exploration etc.	Limestone present in the mine is fine-grained in nature and it is compact and massive. From the Stratigraphic point of view, the Limestone deposit of the ML area belongs to Nimbaheera Limestone, equivalent to Rohtas stage of semri series of Lower Vindhyan series. the color of the Limestone mostly grey with various shades such as dark, light, greenish and some beds are pink. On the basis of color, physical and chemical properties of the rock is also different. However, there is no associate mineral present in the mine, the Limestone beds are sandwiched by Upper Shale (Suket Shale) and Lower Shale (Nimbara Shale). Exploration not taken up as per proposal so violation pointed.			

**2. Development (FY 2022-23)**

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	E/W479133-478928N/S2718280-2718670Pit-2E/W478696-478778N/S 2718680-2718770	As per Proposal, but only small segregation of float ore done.	Violation pointed
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Not proposed	Not proposed in Reporting year	
2c	Stripping ratio or ore to OB ratio	1:0.038	Nil	
2d	Quantity of topsoil generation in m3	67559m3	Nil	Violation pointed
2e	Quantity of overburden generation in m3	99086 T	Nil	Violation pointed
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Mine started working from 04.01.2023. Development work not taken up during the reporting year. Violation pointed for same.		

**3. Exploitation FY 2022-23**

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	01	Nil	Violation pointed
3b	Quantity of ROM mineral production proposed	12,00,000 T	74 T	Violation pointed
3c	Recovery of Salable/usable minerals from ROM production	100 %	100 %	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanised	Mechanised.	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	
3j	Provision of drilling & blasting in mineral benches	Yes	Deep Hole Drilling Blasting	
3k	Provision of mining	Yes	HEMM-Excavator Dumper	

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	machineries in mineral benches		Combination	
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 (Ha.)	Yes	Presently no pit developed.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.038	Nil	
3o	Total area put in use under different heads at the end of year( In Ha)	-	1. Covered under current (O-C) Workings: Nil 2. Occupied by buildings and roads: 1.263 Ha 3. Used for other purpose(Rail Track) : 5.860 Ha	
3p	Production of ROM mineral during last five-years period, as Applicable	2020-21-1200000 T 2021-22- 1200000 T 2022-23- 1200000 T	2020-21- Nil 2021-22- Nil 2022-23- 74 T	Violation pointed for less production.
3q	General remarks of inspecting officer on method of mining etc.	Opening of Mine was done on 04.01.2023. Violation issued for less production and development.		

**4. Solid Waste Management-Dumping (FY2022-23)**

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Yes	Yes	
4b	Location of topsoil, OB & mineral reject dumps	Yes	Nil	Violation pointed.
4c	Number of Dumps within lease area and outside lease area	01	Nil	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Inside lease boundary	Nil	
4e	Number of Active & Alive dumps	1	Nil	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps established	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	Not proposed in RY	
4i	Length of Retaining wall or garland drain all along dump	Not proposed	Not proposed in RY	
4j	Number of settling ponds	Not proposed	Not proposed in RY	
4k	Specific comments of inspecting officer on waste dump management	Opening of Mine was done on 04.01.2023. Very less production and development done for which violation pointed.		

**5. Solid Waste Management-Backfilling (FY 2022-23)**

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	NA	NA	
5b	Area under backfilling of mined out area	Not proposed	Not proposed in RY	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Yes	Not done	
5d	Total area fully reclaimed	Nil	Nil	

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	& rehabilitated (Ha)		
5e	General remarks of inspecting officer on backfilling, reclamation etc	Opening of Mine was done on 04.01.2023, so backfilling and other rehabilitation work not taken up.	

**6. Progressive Mine Closure Plan(FY 2022-23)**

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 23E (2). Details should be given in the format as given in Annexure-20	Yes	Submitted on 28.06.2023	
6b	Area available for rehabilitation (Ha)	Nil	Nil	
6c	Afforestation done (ha)	Nil	Nil	
6d	No. of saplings planted during the year	10026	Nil	Violation pointed
6e	Cumulative no. of plants	10026	Nil	
6f	Any other specific method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch & care during the year	Nil	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	Nil	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	Nil	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	Nil	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	Nil	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	Nil	Nil	
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	Nil	Nil	
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	Nil	Nil	
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	Nil	Nil	
6p	Compliance of Environment monitoring (core zone & buffer zone)	Yes	Yes regularly done.	
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Mine started working from 04.01.2023. Full mineral extraction is yet to be achieved, so backfilling and other rehabilitation measures are yet to be started.		

**7. Mineral Conservation(FY 2022-23)**

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM Dispatch	ROM Dispatch	
7b	Method of grade-wise mineral sorting	Nil	No sorting carried out	

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	i.e. manual or mechanical			
7c	Different grade of mineral sort out at mine	Nil	Cement grade limestone dispatch	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM dispatch is done in lease area.		

**8. Environment(FY 2022-23)**

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Yes	No top soil produced during the year	Violation Pointed
8b	Concurrent use or storage of topsoil	Yes	Nil	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Yes	Nil	Violation pointed
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	No	Not proposed in RY	
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 41)	Yes	Yes provided.	
8g	Survival rate	80%	Nil	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Regular monitoring of environmental parameters done. Water sprinkling on roads to control airborne dust done on haul roads.		

**9. Compliance of Rule 45 (2022-23)**

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Yes done regularly. Annual Return submitted on 23.06.2023	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes furnished.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes furnished.	Nil
9d	Scrutiny of Annual return on afforestation	Nil plantation done	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil reject generation done.	Nil
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Yes furnished. ROM transported to Captive Plant.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Yes , Production : 74 Tonnes Dispatch : 74 Tonnes Ex Mine price : Rs 164.47/ Tonnes	Nil
9i	Scrutiny of Annual return on Fixed assets	Yes , Value of Fixed Assets* (₹ 429252622)	Nil
9k	Scrutiny of Annual return on mining Machineries	Yes furnished.	Nil