

MCDR INSPECTION REPORT

1	Name of Inspecting officer:	Madhavrao sabre
2	Designation	Senior Mining Geologist
3	Accompanying mine official with Designation	Mr. Subhash Nigam (Agent), Mr. Akhilesh Pratap Singh (Mine Manger), Mr. Himanshu Churhe (Geologist)
4	Date of Inspection	19-Aug-2023
5	Previous Inspection date	09-Aug-2022

Part-I: General

S.No	Particulars	Details
1	Name of the Mine	Vikram Cement Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	342.612 Ha
3	Mine code	38MPR51001
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/441/2011
5	Name of the lessee, Address, Phone, email and fax number	M/s. ULTRATECH CEMENT LIMITED, B Wing, Ahura Centre, 2nd FloorMahakali Caves Road,Andheri (East),
6	Village	SUVAKHEDA MOKA MAHES
7	Taluka/Mandal	Jawad
8	District	Neemuch
9	Pin code	458470
10	State	M.P
11	Post Office	Khor
12	Nearest Police Station	Jawad
13	Nearest Railway Station	Jawad Road
14	Date of opening of Mine	28.01.2022
15	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Kailash Chandra Jhanwar, UltraTech Cement Ltd. , Second Floor, Ahura Centre, B-Wing, Mahakali Caves Road, Andheri (East), Mumbai - 400 093, Appointment date :01.01.2020. email: kailash.jhanwar@adityabirla.com
16	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Subhash Nigam, UltraTech Cement Ltd. (Unit: Vikram Cement Works), PO: Khor, Tehsil.: Jawad, Dist: Neemuch, M.P., mob : 96699 54545 subhash.nigam@adityabirla.com , Appointment Date : 01.07.2021
17	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Akhilesh Pratap Singh, UltraTech Cement Ltd. (Unit: Vikram Cement Works), PO: Khor, The.: Jawad, Dist: Neemuch, M.P., 458470, akhilesh.p.singh@adityabirla.com , Mob: 98264 29061, Appointment Date : 01.12.2020
18	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Akhilesh Pratap Singh, Diploma in Mining, Experience : 28Years . UltraTech Cement Ltd. (Unit: Vikram Cement Works), PO: Khor, The.: Jawad, Dist: Neemuch, M.P., 458470, akhilesh.p.singh@adityabirla.com , Mob: 98264 29061, Appointment Date : 14.09.2022.

19	Whether Geologist (with details of appointment) and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes , Shri Himanhsu Churhe (Geologist), Experience: 7 years 9 months, Date of Appointment: 16-03-2023
20	Date of Approval of Mine Plan/Modified Mine Plan with five-year period and specific condition in approval letter, if any.	Approval Letter No. MP/Neemuch/Limestone/RMP-23/19-20 dated 10-12-2019
21	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	-
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 Mechanized
25	Captive/Non-Captive	Captive

Details about Mining Plan/ Review of Mining Plan etc

a) Letter No. and date of approval of mining plan	:	-
b) Letter No. and date of approval of review of mining plan	:	Approval Letter No. MP/Neemuch/Limestone/RMP-23/19-20 dated 10-12-2019
c) Condition while approving the MP/ RMP/ modification	:	-
d) Period of mining plan/ mining scheme in force :	:	2020-21 to 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)	Nil	01	
1b		Nil	G1	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year (for 2022-23)	-	'B K Associates, "OM BADRINATH", Street No. 02, Ramdham Society, Near Karnataka Bank, Rajkot-360005 Expenditure :Rs 3.87 lakhs	
1d	Balance area to be explored to bring the Geological axis in 1 or 2. (for 2022-23)	-	G1 - 217.06 ha G2 - 3.98 ha Rest - 121.572 Ha Non Mineralized	Violation issued.
1e	Balance reserves as on 01.04.2023		111- 52.38 million tones 122- 0.88 million tones 211- 38.20 million tones 222- 1.38 million tones Total Reserves : 53.26 million tones. Total Resources : 39.58 million tones. Grand total: 92.84 Million tonnes	
1f	General remarks of Inspecting officer on geology, exploration etc.	During the reporting year 01 borehole was drilled. Violation letter issued to bring complete mineralized area under G1 category.		

2. Development (FY 2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	North, East, South-centre	i)Pit-1-N - 2714890 to 2715620 E-485295 to 486384 , ii)Pit-2-N-2714600 to 2715390 E-485896 to 487019 Pit-3N - 2715550 to 2716032 E - 486101 to 486476	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Yes	Separate benches in topsoil, overburden and mineral are maintained	
2c	Stripping ratio or ore to OB ratio	1:0.40	1:0.20	
2d	Quantity of topsoil generation in m3	Nil	NA	
2e	Quantity of overburden generation in m3	1820000 T	2174285 T	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development done as per proposals .		

3. Exploitation FY 2022-23

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	03	03	
3b	Quantity of ROM mineral production proposed	5000000 Tonnes	4345699.6 Tonnes	Violation issued for shortfall
3c	Recovery of Salable/usable minerals from ROM production	100%	100%	
3d	Quantity of mineral reject generation	-	-	
3e	Grade of mineral reject generation and threshold value declared	-	CaO >34, MgO <5	
3f	Quantity of sub-grade mineral generation	NA	NA	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized method	Mechanized method	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	Not proposed	
3j	Provision of drilling & blasting in mineral benches	Yes	Deep hole drilling blasting carried out.	

3k	Provision of mining machineries in mineral benches	Yes	HEMM, Exvacavator , Dumper Combination, Drill.	
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.)	-	92.405 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.40	1:0.20	
3o	Total area put in use under different heads at the end of year	-	1.Excavation/pits(Ha.)=92.405 Ha 2.Waste/Ob/IBdumps (Ha.) = 6.61 Ha 3. Mineral stacks (Ha.)= 0.930 Ha 4. Plants, buildings, Infrastructure etc. (Ha.)= 1.088 Ha 5. Road and green Belt :22.20 Ha Total : 123.242 Ha	
3p	Production of ROM mineral during last five-years period, as Applicable	2018-19 5500000 T 2019-20 5500000 T 2020-21 5000000 T 2021-22 5000000 T 2022-23 5000000 T	2018-19 4457201 T 2019-20 3343735 T 2020-21 3873113 T 2021-22 4044585 T 2022-23 4345699.6 T	
3q	General remarks of inspecting officer on method of mining etc.	Violation issued for shortfall in production. Production done from proposals furnished in Last approved document.		

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	At present there is no top soil dump, OB Dump is present.	
4c	Number of Dumps within lease area and outside lease area	02 within lease area	02 within lease area	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	
4e	Number of Active & Alive dumps	Nil	Nil	
4f	Number of dead dumps	-	02	
4g	Number of dumps established	-	02	
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	Previously Constructed are maintained	
4i	Length of Retaining wall or garland drain all along dump	Nil	(Cumulative length 920m)	
4j	Number of settling ponds		Previously Constructed are maintained (1 Nos)	
4k	Specific comments of inspecting officer on waste dump management	Dumping is done at en marked places, 02 dumps present which are within lease.		

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

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S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	-	-	
5b	Area under backfilling of mined out area	9.80 Ha	10.83	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Part of Top soil proposed for Concurrent Used	Whole quantity of top soil used for plantation	
5d	Total area fully reclaimed & rehabilitated (Ha)	1.00 Ha	0.59 Ha	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Top soil used for plantation over dumps.		

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 29.06.2023	
6b	Area available for rehabilitation (Ha)	-	-	
6c	Afforestation done (ha)	0.5	0.30	
6d	No. of saplings planted during the year	2500	Inside lease 7859 Outside lease 902 Total 8761nos	
6e	Cumulative no. of plants	-	Cummulative 102322	
6f	Any other specific method of rehabilitation	-	-	
6g	Cost incurred on watch & care during the year		254530/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	12.30 Ha	-	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	9.80 Ha	10.83 Ha	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	1.5 Ha	0.59	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	NA	NA	
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	-	-	
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	By plantation	7859	
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha)	1.50	2.21	

	Method of rehabilitation			
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	By plantation	By plantation.	
6p	Compliance of Environment monitoring (core zone & buffer zone)	Yes	Carried out regularly	
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Environment monitoring done regularly, During reporting year 7859 saplings planted.		

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 i.e. manual or mechanical	Nil	NA	
7c	Different grade of mineral sort out at mine	NA	NA	
7d	Any beneficiation process at mines	Screening	Screening	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM mineral dispatch is practiced. Captive Mine.		

8. Environment(FY 2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not in proposal	Not proposed in Reporting year	
8b	Concurrent use or storage of topsoil	-	Whole quantity of top soil used for plantation	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Yes	Yes carried out	
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	Yes	Yes	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes by backfilling and plantation.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Yes	Yes provided.	
8g	Survival rate	90%	90%	
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling on roads to control airborne dust carried out regularly	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Measures taken for maintaining clean environment. During the year 7859 saplings planted.		

9. Compliance of Rule 45 (2022-23)

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Yes submitted on time .Annual return on 26-6-2023	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes Furnished Mining Engineer: Akhilesh P singh Geologist : Himanshu Churhe	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1.Excavation/pits(Ha.)=92.405 Ha 2.Waste/Ob/IBdumps (Ha.) = 6.61 Ha 3. Mineral stacks (Ha.)= 0.930 Ha 4. Plants, buildings, Infrastructure etc. (Ha.)= 1.088 Ha 5. Road and green Belt :22.20 Ha Total : 123.242 Ha	

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9d	Scrutiny of Annual return on afforestation	Yes given, Total 8761 saplings planted during the year		
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Stock nil ROM Production during the year : 4345699.600T		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Cost of production : 219.27/-		
9j	Scrutiny of Annual return on Fixed assets	₹ 429252622		
9k	Scrutiny of Annual return on mining Machineries	SHOVEL (HYDRAULIC)	4.000 cum	1
		SHOVEL (HYDRAULIC)	6.500 cum	4
		DUMPER	30.000 TONNE	4
		DUMPER	40.000 TONNE	2
		DUMPER	55.000 TONNE	9
		BLAST HOST DRILL	115.000 MM	2
		WATER TANKER	20000.000 Litre	1