

MCDR INSPECTION REPORT

General Information

S.N.	Particulars	Details
1	Name of the Mine	Tiloura Limestone Mine
	Date of Inspection:	24 th OCT 2024
	Name of Inspecting Officer	Ibrahim Sharief, DCOM
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	193.252 Ha. Forest land- Nil Non-forest – 193.252 Ha.
3	Mine code	38 MPR 35113
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/4952/2011
5	Name of the Lease, Address, Phone, email and fax number	M/s UltraTech Cement Ltd. Unit- Maihar Cement Works Address – P.O. Sarlanagar, Dist. Satna Maihar M.P. 485772 Phone No. +917674-277043/67/68
6	Village	Tiloura, Silouti, Jurwa & Sirmilli
7	Taluka/Mandal	Maihar
8	District	Satna
9	Pin code	485772
10	State	M.P.
11	Post Office	Sarlanagar
12	Nearest Police Station	Nadan
13	Nearest Railway Station	Maihar
14	Date of Grant of Mining Lease	23/04/1975
15	Date of Execution	23/04/1975
16	Date of opening of Mine	23/04/1975
17	Date of First Renewal, if applicable and its period & expiry	23/04/1995
18	Date of Second Renewal, if applicable and its period & expiry	23/04/2015
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	-
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. K. C. Jhanwar Address –Ahura Centre, B Wing, 2 nd floor, Mahakali Caves Road, Andheri (E) Mumbai 400093. Phone -022-66917800/66917801 Email- ajit.ostwal@adityabirla.com Date of appointment – 03/10/2019
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. P. K. Upadhyay Address –P.O.- Sarlanagar, Dist. Satna Maihar M.P. 485772 Phone -07674-276323 Email- pratyendra.upadhyay@adityabirla.com Date of appointment – 25/06/2021

22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Swarnim Salecha Address –P.O. Sarlanagar, Dist. Satna Maihar M.P. 485772 Phone -07674-276323 Qualification – BE Mining Total experience – 15 yr Email- swarnim.salecha@adityabirla.com Mo. No. 07698007899 Date of appointment – 01/11/2022
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Mr. D. S. Pandey Address –P.O.-Sarlanagar, Dist. Satna Maihar M.P. 485772 Phone -07674-276323 Qualification – BE Mining Total experience – 20 yr Email- Date of appointment – 15/03/2016
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Mr. Vishnu Vasu Address –P.O. Sarlanagar, Dist. Satna Maihar M.P. 485772 Phone -07674-276323 Qualification – M.Sc. Applied Geology Total experience – 15 yr Email- vishnu.vasu@adityabirla.com Date of appointment – 10/05/2019 Mo. No. 9702080846
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	MP/Satna/Limestone/RMP-38/2019-20/1765 Dated 22/07/2020
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	E2743MCDR-MPCOLST/18/2022-JBP-IBM_RO_JBP Dated 30/03/2023
27	Mineral(s) granted in lease and approved for Mining	Limestone
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
30	Captive/Non-Captive	Captive

Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Not proposed	Nil	Violation was pointed out for not starting exploration for the RY 2024-25
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed	Nil	As per the last approved RMP 146.727 ha in under G1 level and 46.525 ha established as non mineralized zone
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not proposed	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Not	Nil	G-1 146.727 & NM-46.525Ha.

		proposed		
1e	Balance reserves as on 01.04.2024	111. 31.31 MT	111-31.632 Million Tonnes as on 01.04.2024	G-1 -146.727 & NM-46.525Ha. 211- Due to re assessment of resources in Approved modification of mining plan, block resources under 211 category.
1f	General remarks of Inspecting officer on geology, exploration etc.	The Lithounits belongs to upper Vindhyan group, Bhandar formation consist of Limestone, shales & High Magnesia limestone. The various litho types encountered in the Mining Lease area are alluvial soil, brown soil, calcareous shale, massive limestone- Most limestones is fine grained rock. It is compact & massive. Grey Limestone - About 20 to 22 meters thick band of Grey Limestone band of with Minor blackish layer of shale has been observed in mineralized area. 146.727 ha area is explored in G1 scale. Additional bore holes are proposed to cover the entire mineralised area (laterally and depth wise) as per the statute		

Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	Central Block E-484708 to 484760 N-2683940 to 268410	Development is being carried out as within approved proposals	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Yes, Separate benches Top soil, waste and mineral are proposed	Yes, separate benches are maintained	
2c	Stripping ratio or ore to OB ratio	1:0.16	1:0.018	
2d	Quantity of topsoil generation in m ³	15392 M ³	15392 M ³	
2e	Quantity of overburden generation in m ³	120049 M ³	5980 M ³	Violation was pointed out for deviation
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	The deviation in development was pointed under Rule 11(1).		

Exploitation

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	One	One	
3b	Quantity of ROM mineral production proposed (2022-23)	499940 Tonnes	316323 Tonnes	
3c	Recovery of Salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	3000 M ³	2000 M ³	

3e	Grade of mineral reject generation and threshold value declared	Cao 34	Cao 34	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	-	-	
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	Not proposed	Nil	
3j	Provision of drilling & blasting in mineral benches	Yes, Deep hole drilling and Blasting with High Explosives is being proposed	Yes, Deep hole drilling and Blasting with High Explosives is practised	
3k	Provision of mining machineries in mineral benches	Yes	Yes	Back Hoe- 2.3Cum- 1 No., Tipper- 16.0Cum- 20 Nos. Blast Host Drill- 115MM-1 No.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 6 Meters of bench height is suitable with the machines deployed in the lease.	Yes, 6 mtrs bench height is suitable.	
3m	Total area covered under excavation /pits	22 .68 Ha.	20.10 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.16	1:0.018	
3o	Total area put in use under different heads at the end of year	42.30 Ha	35.95Ha.	
3p	Production of ROM mineral during last five-years period, as Applicable	2018-19	500000	468
		2019-20	500000	0
		2020-21	499950	13942.940
		2021-22	499950	50074.010
		2022-23	499900	74213
		2023-24	499940	316323
3q	General remarks of inspecting officer on method of mining etc	Production is being carried out within the approved proposals. Mining is being carried out by fully mechanized method with deep hole drilling and blasting		

Solid Waste Management-Dumping- No Proposal

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral	Yes Separate	Yes Separate dumps for	

	reject (Rule 32,33)	dumps for Top soil, OB and Mineral is to be maintained	Top soil, OB and Mineral is being maintained	
4b	Location of topsoil, OB & mineral reject dumps	Proposed in extension of Dump C	Top Soil- E-484600 to 484660 N-2683830 to 2683900 OB- E-484500 TO 484600 N-2684260 TO 2684350	
4c	Number of Dumps within lease area and outside lease area	05 Dumps	05 dumps	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	With in UPL	With in UPL	
4e	Number of Active & Alive dumps	01	01	
4f	Number of deed dumps	04	04	
4g	Number of dumps established	01	01	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes, it was proposed to construct 160 mtrs	Not maintained	Violation was pointed out
4i	Length of Retaining wall or garland drain all along dump	160 mtrs	Nil	Violation was pointed out
4j	Number of settling ponds	Not Proposal	Nil	
4k	Specific commends of inspecting officer on waste dump management	For non-construct of retaining wall violation was pointed out		

Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not Proposal	Nil	
5b	Area under backfilling of mined out area	Not proposed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	Nil	
5d	Total area fully reclaimed & rehabilitated	Not proposed	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No area is matured for backfilling		

Progressive Mine Closer Plan

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	To be submitted	Yes, submitted	

6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	Not proposed	Nil	
	ii) Afforestation done (ha)	Not proposed	Nil	
	iii) No.of saplings planted during the year	Not proposed	Nil	
	iv) Cumulative no. of plants	Not proposed	Nil	
	v) Any other specific method of rehabilitation	Not proposed	Nil	
	vi) Cost incurred on watch & care during the year	Not proposed	Nil	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L*B*D) ii) Void filled by waste/tailings iii) Afforestation on the backfilling iv) Rehabilitation by making water reservoir v) Any other specific means	Not proposed Not proposed Not proposed Not proposed Not proposed	Nil Nil Nil Nil Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	1000No. 0.45Ha. By Afforestation	1000No. Area- 4.45Ha. By Afforestation	
6e	Compliance of Environment monitoring (core zone & buffer zone)	quarterly monitoring is to be carried out	Yes Quarterly monitoring is being carried out	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Pits are not exhausted to start the backfilling		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	499940	316323 T	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not proposed	Not applicable	
7c	Different grade of mineral sort out at mine	Not proposed	Nil	
7d	Any beneficiation process at mines	Not proposed	Nil	

7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No grade wise sorting observed the entire produced ROM is being supplied to the captive cement plant.
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Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Yes, top soil generated is to be utilized for plantation	Yes, top soil generated is being utilized for plantation	
8b	Concurrent use or storage of topsoil	Proposed concurrent use	Yes, Used	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Yes separate dumps for OB is to be maintained	Yes separate dumps for OB is to be maintained by extension of Dump - C	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Additional plantation of about 10000 saplings to be planted	10000 Nos. of saplings planted during the year, total plantation in the lease area is about 25952	
8g	Survival rate	About 90 %	About 95 %	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling arrangements to be done to suppress the dust generated	Yes, Water sprinkling arrangements to be done to suppress the dust generated	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Plantation is being carried out to improve aesthetic beauty		

Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Monthly Return and Annual returns are to be Submitted	Monthly Return & Annual Return are submitted on time.
9b	Scrutiny of Annual return for information on Mining Engineer,	Mining Engineer - Shri D. S. Pandey	Mining Engineer and geologist employed for the

	Geologist and Manager	Geologist- Shri Vishnu Vasu	lease
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 20.10Ha. Dump- 6.085 Ha. Infrastructure -0.50Ha. Other – 1.385Ha. PMCP work- 3.0 Ha	Area degraded more or less same.
9d	Scrutiny of Annual return on afforestation	10000	10000
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex.Mine price & production costs	Ex. Mine Price – Rs. 353.15/T COP- Rs. 353.15/T	Violation was pointed out for ex mine price as transportation lot side lease area is included
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets ₹ 319897770	As reported by lessee
9k	Scrutiny of Annual return on mining Machineries	Back Hoe- 2.3Cum- 1 No., Tipper- 16.0Cum- 20 Nos. Blast Host Drill-115MM-1 No.	The said machineries are deployed in the mine

Details of Validations observed during current inspection and compliance position of earlier violation pointed out:-

S.No	Violation Pointed out Under MCDR-2017	Date of Issue of VL	Compliance received	Date of Issue of SCN	Compliance received on for SCN
1	Rule 11(1)	29.01.2025			
2	Rule 34A (2)	29.01.2025			
3	Rule 45 (7)	29.01.2025			

Name: **Ibrahim Sharief**
Designation: Deputy Controller of mines