

**MCDR-MiFLOLST/4/2023-JBP-IBM\_RO\_JBP**  
**MCDR INSPECTION REPORT**

I/23188/2024

**General Information**

<b>S.N.</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Mine	Tiloura Limestone Mine
	Date of Inspection:	12 <sup>th</sup> Sep. 2023
	Name of Inspecting Officer	Kathroju Naveen, Sr ACOM
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 <sup>nd</sup> floor, Mahakali Caves Road, Andheri (E) Mumbai 400093. Phone -022-66917800/66917801 Email- <a href="mailto:ajit.ostwal@adityabirla.com">ajit.ostwal@adityabirla.com</a> 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- <a href="mailto:pratyendra.upadhyay@adityabirla.com">pratyendra.upadhyay@adityabirla.com</a> 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

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		Email- <a href="mailto:swarnim.salecha@adityabirla.com">swarnim.salecha@adityabirla.com</a> 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- <a href="mailto:vishnu.vasu@adityabirla.com">vishnu.vasu@adityabirla.com</a> 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	
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 proposed	Nil	G-1 146.727 & NM-46.525Ha.
1e	Balance reserves as on 01.04.2023	111.31.25 MT	111-32.61 Million Tonnes	G-1 146.727 & NM-6.525Ha. 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.	As per the last approved document dated 22/07/2020 the balance reserves as on 30.09.2019 are 32.754 MT out of which it is proposed to exploit 1497950 T against which till 2023 the exploited reserves are 138230 T Thus balance reserves as on 01.04.2023 are 32.61 MT		

**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	E485000 to E485200, N 2673200 to N2673500 and E485500 to E 485700, N2673300 to N 2673600.	The Deviation in the proposed location observed against which the violation is issued under Rule 11(1)
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1:0.23	1:0.77	
2d	Quantity of topsoil generation in m <sup>3</sup>	13200 M <sup>3</sup>	5237 M <sup>3</sup>	
2e	Quantity of overburden generation in m <sup>3</sup>	44000 M <sup>3</sup>	22949.1 M <sup>3</sup>	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	The Deviation in the proposed location observed against which the violation is issued under Rule 11(1)		

**Exploitation**

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed (2022-23)	499900 Tonnes	74213 Lakh	The deviation in the proposed production observed against which the violation is issued under Rule 11(1).
3c	Recovery of Salable/usable mineral from ROM production	Yes	Yes	
3d	Quantity of mineral reject generation	2000 M <sup>3</sup>	799.9 M <sup>3</sup>	
3e	Grade of mineral reject generation and threshold value declared	Cao 34	Cao 34	
3f	Quantity of sub-grade mineral generation	24995 T	750 T Generated and Used by Blending	
3g	Grade of sub-grade mineral generation	-	Cao 34	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade	Not proposed	Nil	

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	mineral and reject			
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Yes	Yes	Back Hoe-2.1Cum, Tipper-16.0Cum Blast Host Drill-115MM
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes, 6 mtrs.	
3m	Total area covered under excavation /pits	20 .10Ha.	20.10 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.23	1:0.77	
3o	Total area put in use under different heads at the end of year	40.714 Ha	20.10Ha.	
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
	Up to 31 Aug.23	499940	117289	
3q	General remarks of inspecting officer on method of mining etc	The deviation in the proposed production observed against which the violation is issued under Rule 11(1).		

**Solid Waste Management-Dumping- No Proposal**

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	No storage	Top Soil- Concurrent Uses. OB Extension of Dump- C	
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	02 Dumps	02 dumps	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	With in	With in	
4e	Number of Active & Alive dumps	01	01	
4f	Number of deed dumps	-	04	
4g	Number of dumps established	01	01	
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	Not proposed	355 Mtr. Garland Drain along Waste Dump	
4j	Number of settling ponds	Not Proposal	Nil	
4k	Specific commends of inspecting officer on waste dump management			

**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	Being done in barrier near safety zone, 7.5m for GBD.
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)	Yes	Not storage	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	N		

**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		Nil	
	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)	Not proposed	Nil	
	ii) Void filled by waste/tailings	Not proposed	Nil	
	iii) Afforestation on the backfilling	Not proposed	Nil	
	iv) Rehabilitation by making water reservoir	Not proposed	Nil	
	v) Any other specific means	Not proposed	Nil	

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6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	900No. 0.45Ha. By Afforestation	900No. Area- 0.45Ha. By Afforestation	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Yes	Yes Reported	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Pits has 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	ROM	ROM	Waste Removal
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not proposed	Not applicable	No grade wise dispatch proposed or carried out.
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.		

### Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Proposed concurrent use	Used	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Extension of Dump -C	Extension of Dump -C	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Back filling not proposed	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Nil	

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8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	900 16025	At Waste Dump 900Nos. Total 16025	
8g	Survival rate	99%	95%	
8h	Water sprinkling on roads to control airborne dust	Yes	being done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area			

**Compliance of Rule 45**

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Monthly Return are Submitted	Monthly Return Submitted on time.
		Annual Return are Submitted	Annual Return Submitted on dated 20/06/2023
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	ME- D. S. Pandey Geologist- Vishnu Vasu	ME- D. S. Pandey Geologist- Vishnu Vasu
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 20.10Ha. Dump- 6.038 Ha. Infrastructure -0.50Ha. Other – 1.385Ha.	
9d	Scrutiny of Annual return on afforestation	900 19075	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Nil	
9g	Scrutiny of Annual return on sale value, Ex.Mine price & production costs	Ex. Mine Price – Rs. 435.61/T COP- Rs. 254.57/T	Captive mine hence no sale price is applicable
9i	Scrutiny of Annual return on Fixed assets	Value of Fixed Assets ₹ 12602455	
9k	Scrutiny of Annual return on mining Machineries	Back Hoe- 2.1Cum, Tipper- 16.0Cum Blast Host Drill-115MM	

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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)	31.10.2023	15.12.2023	-	-
2	Rule 34A (2)	31.10.2023	15.12.2023	-	

Name: **Kathroju Naveen**  
Designation: Sr. Assistant Controller of mines