

MCDR INSPECTION REPORT

1	Name of Inspecting officer:	Madhavrao Sabre
2	Designation	Senior Mining Geologist
3	Accompanying mine official with Designation	Mohammad Siddik (Deputy Manager, SH Mine Planning)
4	Date of Inspection	22.11.2023
5	Previous Inspection date	-

Part-I: General

S.No	Particulars	Details
1	Name of the Mine	Narora Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	147.940 Ha. (Revenue) and No Forest Land
3	Mine code	38MPR33049
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 Floor Mahakhali Caves Road Andheri (East) Mumbai 400 093 Phone - 022 66917800 Email- ajit.ostwal@adityabirla.com
6	Village	Sonra, Hinauti and Narora
7	Taluka/Mandal	Huzur
8	District	Rewa
9	Pin code	486450
10	State	Madhya Pradesh
11	Post Office	Jaypeepuram
12	Nearest Police Station	Naubasta
13	Nearest Railway Station	Rewa
14	Date of opening of Mine	01.01.2021
15	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Kailash Chandra Jhanwar B wing, Ahura Centre 2nd Floor, Mahakali Caves Road Andheri (East), Mumbai 400 093 Phone - 022 66917800 Email- ajit.ostwal@adityabirla.com Date of Appointment – 19.10.2018
16	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Kishore Kumar Moorjani Sr. General Manager-Mines & Agent - Mines UltraTech Cement Limited Unit - Bela Cement Works P.O. - Jaypeepuram, Rewa District - Rewa MP – 486450, Mobile No. - 9587030510 Email – Kishore.moorjani@adityabirla.com

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		Date of Appointment-02.06.2023
17	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Ankesh Gunjan UltraTech Cement Limited Unit - Bela Cement Works P.O. - Jaypeepuram, Rewa District - Rewa MP – 486450, Mobile No. - 9039730366 Email- Ankesh.gunjan@adityabirla.com
18	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Ankesh Gunjan Qualification- Diploma in Mining & Mines Survey Experience- 25 Years UltraTech Cement Limited Unit - Bela Cement Works P.O. - Jaypeepuram, Rewa District - Rewa MP – 486450, Mobile No. - 9039730366 Email- Ankesh.gunjan@adityabirla.com Date of Appointment – 11.02.2023
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
20	Date of Approval of Mine Plan/Modified Mine Plan with five-year period and specific condition in approval letter, if any.	23.05.2019 (Valid up to 31.03.2024)
21	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	Letter no. E 8820 MCDR-MPC0LST/49/2023-JBP-IBM_RO_JBP dated 06.02.2024. Period: 2024-25-2028-29
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	:	No.314(3)/2008-MCCM(C) /MP-48, Date 26.03.2009
b) Letter No. and date of approval of review of mining plan	:	Letter no. E 8820 MCDR-MPC0LST/49/2023-JBP-IBM_RO_JBP dated 06.02.2024. Period: 2024-25-2028-29
c) Condition while approving the MP/ RMP/ modification	:	NA
d) Period of mining plan/ mining scheme in force :	:	2024-25 to 2028-29

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)	22 Holes	Yes taken up	-
1b	Exploration over lease area for Geological axis	Nil	10 Holes	-

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	1 or 2 (for 2022-23)			
1c	Exploration Agency & Expenditure in Lakh Rupees during the year (for 2022-23)	Nil	Pandey Construction , 11.92 Lakh	-
1d	Balance area to be explored to bring the Geological axis in 1 or 2. (for 2022-23)	Achieved entire area in Geological axis G1 and G2		-
1e	Balance reserves as on 01.04.2023	14.082 Mio T	14,082,146.00 as on 31.03.2023	-
1f	General remarks of Inspecting officer on geology, exploration etc.	The limestone deposit of the area is mainly of stromatolitic type (Upper purple Stromatolitic Limestone band & Lower grey Stromatolitic Limestone band) with a nodular look and belongs to the Nagod Limestone formation of Bhandar group. The limestone bands of interest usually occur in two main horizons, namely Upper Grey & Lower Grey with a thick shale/shaly band in between. A local stratigraphic sequence encountered in the Mining Lease area based on borehole & developed face of the mining lease is summarized as follows: Horizon No. Litho Unit Thickness 1. Soil 0.20 - 6.00 m 2. Upper Magnesian Shale 1.80- 16.00 m 3. Upper Grey Limestone 1.00 - 12.00 m 4. Middle shale 1.90 -37.50m 5. Nodular Shale 2.00 - 12.00m 6. Lower Grey Limestone 3.05 - 14.00 m 8. Magnesian limestone 0.50-14.00 m		

2. Development (FY 2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	N-2710820 to N-2711500 E-515641 to E-516260	N-2710920 to N-2711500 E-515641 to E-5161400	-
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Topsoil -1 OBS- 2 Limestone-2	Topsoil -1 OBS- 2 Limestone-2	Violation issued for less Limestone & Top soil production
2c	Stripping ratio or ore to OB ratio	1:1.48	1:1.54	-
2d	Quantity of topsoil generation in m3	137217 m3	49600 m3	Violation issued for less Top soil production
2e	Quantity of overburden generation in m3	675471 m3	651921 m3	-
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Violation issued for less limestone and top soil production.		

3. Exploitation FY 2022-23

S. N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	Pit-01	Pit-01	
3b	Quantity of ROM mineral production proposed	1000006 Tonne	422389 Tonne	Violation issued for deviation

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3c	Recovery of Salable/usable minerals from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	No Mineral Reject
3e	Grade of mineral reject generation and threshold value declared	Nil	34 % Cao Less than 5% MgO	No Mineral Reject
3f	Quantity of sub-grade mineral generation	NA	NA	No Sub grade Mineral
3g	Grade of sub-grade mineral generation	NA	NA	No Sub grade Mineral
3h	Manual/Mechanized method adopted for segregation from ROM	Fully Mechanised	Fully Mechanised	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	-
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	-
3k	Provision of mining machineries in mineral benches	Yes	Yes	-
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.)	Pit-18.96 Ha	Pit- 8.677 Ha	-
3n	Ore to OB ratio for the pit/mine during the year	1:1.48	1:1.54	-
3o	Total area put in use under different heads at the end of year	Pit- 18.96 Ha Others- 4.11 Ha PMCP- 1.65 Ha	Pit 8.677 Ha Others- 0.52 Ha PMCP-0.20 Ha	-
3p	Production of ROM mineral during last five-years period, as Applicable	2019-20= 385000 2020-21=718000 2021-22=997025 2022-23=1000006	0.00 0.00 355465 422389	-
3q	General remarks of inspecting officer on method of mining etc.	Recovery considered is 100 %, Less mineral production is done as proposed.		

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

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral	4.11	0.52	Violation issued for anomaly is dump

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	reject (Rule 32,33)			quantity
4b	Location of topsoil, OB & mineral reject dumps	Within ML	Within ML	-
4c	Number of Dumps within lease area and outside lease area	2	2	-
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Within ML	Within ML	-
4e	Number of Active & Alive dumps	2	2	-
4f	Number of dead dumps	NA	NA	-
4g	Number of dumps established	Nil	Nil	-
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	Nil	-
4i	Length of Retaining wall or garland drain all along dump	Nil	Nil	-
4j	Number of settling ponds	NA	NA	-
4k	Specific comments of inspecting officer on waste dump management	Violation issued for anomaly is dump quantity		

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	2.66 Ha	0.00 ha	Violation issued for deviation.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	-
5d	Total area fully reclaimed & rehabilitated (Ha)	1.65	Nil	-
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling not taken up as proposed.		

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

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP			-

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	submitted on time and correctly- Rule 23E (2). Details should be given in the format as given in Annexure-20	PMCP report to be submitted in time.	PMCP report submitted on time.	
6b	Area available for rehabilitation (Ha)	1.65	0.80	-
6c	Afforestation done (ha)	1.65	0.80	-
6d	No. of saplings planted during the year	3313	1700	-
6e	Cumulative no. of plants	4293	6985	-
6f	Any other specific method of rehabilitation	Nil	Nil	-
6g	Cost incurred on watch & care during the year	993900	510000	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	298X89X25	Nil	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	675471M3	Nil	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	1.65 Ha	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)	Monitoring to be done.	Monitoring on monthly basis being carried out.	-
6q	General remarks of inspecting officer on PMCP compliance & progressive closer operations	During the year 1700 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	Total ROM to be	Total ROM is being	-

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		dispatched	dispatched	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	NA	NA	-
7c	Different grade of mineral sort out at mine	NA	NA	-
7d	Any beneficiation process at mines	NA	NA	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM mined is dispatched to the plant.		

8. Environment(FY 2022-23)

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Nil	Not in reporting year	-
8b	Concurrent use or storage of topsoil	NA	Not in Reporting year	-
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Nil	Yes	-
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	NA	NA	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	2.14 Ha.	0.80 Ha. Rehabilitated	-
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Total plantation within ML area 6985 nos and additional plantations at outside of lease area 1000 nos.	Yes	-
8g	Survival rate	80%	80%	-
8h	Water sprinkling on roads to control airborne dust	Dust suppression to be done.	Dust suppression done by using water tankers.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	During the year 1700 saplings planted inside the lease.		

9. Compliance of Rule 45 (2022-23)

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	M.R. Submitted regularly A.R. submitted up to 31.03.2023	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes details furnished.	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes details furnished.	-
9d	Scrutiny of Annual return on afforestation	Yes details furnished, 1700 saplings planted.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	-
9f	Scrutiny of Annual return on	422389 T of ROM produced and dispatched to	-

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	ROM stock and/or grade ore	plant.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex mine price: Rs 552.97/-	-
9i	Scrutiny of Annual return on Fixed assets	Rs 1150104126/-	-
9k	Scrutiny of Annual return on mining Machineries	Yes, Dumper 55tones 2nos Back hoe 4.5 m3 1 nos Dozer 408 HP 1 Nos Rock drill (Non electrical) 152 mm 1 nos Water tanker 10000 L 1 nos	-