

INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection Report

Jabalpur regional office

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| 1) Name of Inspecting officer: | Dr. Pukhraj Nenival, |
| 2) Designation | Regional Controller of Mines |
| 3) Accompanying mine official with designation | Shri Naval Kishore Sharma, Functional Head, |
| 4) Date of Inspection | 16.01.2025 |

Part-I: General

| S. N. | Particulars | Details |
|-------|--|--|
| 1 | Name of the Mine | Hinauti Limestone Mines |
| 2 | Total Lease Area (Ha) with breakup of Non-forest and forest land | Forest: 378.261 Non-Forest: Nil |
| 3 | Mine code | 38MPR35310 |
| 4 | IBM Registration Number under rule 45 of MCDR,1988 | IBM/441/2011 |
| 5 | Last Inspection Details | 19/10/2023 by Shri Ibrahim Sharief, DCOM |
| 6 | Name of the Lease, Address, Phone, email and fax number | UltraTech Cement Ltd. Aditya Vihar P.O Bharatpur Tehsil-Rampur Naikin Distt-Sidhi (MP) |
| 7 | Village | Hinauti, Dengraha, Biharganj & Jurmani in Govindgarh Extension Forest Compartment No. 752 & 753 |
| 8 | Taluka/Mandal | Ramnagar |
| 9 | District | Mahihar (MP) |
| 10 | Pin code | 485775 |
| 11 | State | Madhya Pradesh |
| 12 | Post Office | Hinauti |
| 13 | Nearest Police Station | Ramnagar |
| 14 | Nearest Railway Station | Satna |
| 15 | Date of Grant of Mining Lease | 08/12/2006 |
| 16 | Date of Execution | 14/08/2007 |
| 17 | Lease period | 14/08/2007 to 13/08/2057 |
| 18 | Date of opening of Mine | 20/10/2009 |
| 19 | Initial Grant | 14/08/2007 to 13/08/2027 |
| 20 | Date of First Renewal, if applicable and its period & expiry | 14/08/2007 to 13/08/2057 |
| 21 | Date of Second Renewal, if applicable and its period & expiry | N/A |
| 22 | Date of submission of renewal application if Mining Operations are continuing under deemed extension | N/A |
| 23 | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment | K.C Jhanwar B-Wing Ahura Center 2nd Floor Mahakali Caves Road, Andheri (East), Mumbai- 400093 |

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| 24 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment | Shri Naval Kishore Sharma Aditya Vihar, Post: Bharatpur, Rampur Naikin, Sidhi (MP) Date of Appointment: 27.01.2024 |
| 24 | Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines | Shri Surendra Nath Tiwari Aditya Vihar, Post: Bharatpur, Rampur Naikin, Sidhi (MP)-486776 Date of Appointment: 30.05.2024 |
| 25 | Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine | Shri Sandeep Kumar Sharma Aditya Vihar, Post: Bharatpur, Rampur Naikin, Sidhi (MP)-486776 Date of Appointment: 25/08/2024 BE in Mining (15+ years) |
| 27 | Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44. | Yes Shri Om Prakash Tiwari has been appointed as Geologist |
| 28 | Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any. | 1. 314(3)/2006-MCCM(C) /MP-13, on 27/11/2006 2. 314(3)/2011-MCCM(C) Z/MP-09, on 18/11/2011 3. MP/Satna/Limestone/M.Sch.-32/14-15/6670, on 28/11/2014 4. MP/Satna/Limestone/RMP-39/2018-19/7334, on 24/12/2018 5. MP/Satna/Limestone/M PLN/ MOD-15/2020-21/3415, on 21/12/2020 6. MP/Satna/Limestone/M PLN/ MOD-14/2022/2335, on 04/08/2022 |
| 29 | Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any. | NA |
| 30 | Mineral(s) granted in lease and approved for Mining | Limestone |
| 31 | Method of Mining (Opencast, Underground) | Opencast |
| 32 | Category (Fully Mechanized, Others or Manual) | Fully Mechanized |
| 33 | Captive/Non-Captive | Captive |

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 | Nil | Nil | |
| 1b | Exploration over lease area for Geological axis 1 or 2. | G1: 178.13 Ha. | G1: 178.130 Ha. | |
| 1c | Exploration Agency & Expenditure in Lakh Rupees during the year | Not proposed | Nil | Lease area explored up to G1 level of exploration |
| 1d | Balance area to be explored to bring | Nil | Entire mineralised area already explored | |

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| | Geological axis in 1 or 2. | | under G1 level. | |
| 1e | Balance reserves as on 31.03.2024 | Nil | Balance reserve as on 31/03/2024 – 111-26410375 tonnes (Limestone) | |
| 1f | General remarks of Inspecting officer on geology, exploration etc. | The limestone of Rohtas Stage and the overlying Kaimur sandstone are the only litho units that can be observed on the spurs formed along the hill slopes. The limestone horizon as encountered during exploration is generally grey to dark grey in color and fine grained in nature. It may further be broadly classified into three different types namely, Massive & hard limestone, thin bedded flaggy & soft limestone and Soft & friable limestone. | | |

2. Development

| S.N. | Item | Proposals | Actual Work | Remarks |
|------|--|--|---|---------|
| 2a | Location of Development w.r.t. lease area | Pit 1 | Pit 1 | |
| 2b | Separate benches in topsoil overburden and mineral (Rule 15) | Top soil-0, Over burden-2, Mineral -1 | Top soil-0, Over burden-2, Mineral -1 | |
| 2c | Stripping ratio or ore to OB ratio | 1:0.96 | 1:1.6 | |
| 2d | Quantity of Topsoil generation in m ³ | 9100 cubic meter | Nil | |
| 2e | Quantity of overburden generation in m ³ | 308067 T | 50529 T | |
| 2f | General remarks of Inspecting officer on development of pit w.r.t type of deposit etc. | Pit was developed in within proposed area. Bench height and width is found maintained as per proposal. Development done as per proposal. | | |

3. Exploitation

| S. N. | Item | Proposals | Actual Work | Remarks |
|-------|---|--|---|---------|
| 3a | Number of pits proposed for production | One pit | One pit | |
| 3b | Quantity of ROM mineral production proposed | 100000 | 189996 | |
| 3c | Recovery of Salable/usable mineral from ROM production | 100% | Nil | |
| 3d | Quantity of mineral reject generation | No Proposal | Nil | |
| 3e | Grade of mineral reject generation and threshold value declared | No Proposal | Nil | |
| 3f | Quantity of sub-grade mineral generation | No Proposal | Nil | |
| 3g | Grade of sub-grade mineral generation | No Proposal | Nil | |
| 3h | Manual/Mechanized method adopted for segregation from ROM | No Proposal | Nil | |
| 3i | Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject | No Proposal | Nil | |
| 3j | Provision of drilling & blasting in mineral benches | Yes, Drilling and Blasting is proposed to be carried out | Yes, Drilling and Blasting is being carried out as proposed | |
| 3k | Provision of mining machineries in | BACK HOE | BACK HOE | |

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|----|--|--|--|---|
| | mineral benches | 1.000 CUM 1 BACK HOE 1.000 CUM 2 TIPPER 10.000 CUM 8 DOZER 301.000 HP 1 WATER TANKER 12000.000 LITRE 1 EXPLOSIVE VAN 9.600 TONNE 1 BLAST HOST DRILL 100.000 MM EXPLOSIVE VAN 7.200 TONNE 1 | 1.000 CUM 1 BACK HOE 1.000 CUM 2 TIPPER 10.000 CUM 8 DOZER 301.000 HP 1 WATER TANKER 12000.000 LITRE 1 EXPLOSIVE VAN 9.600 TONNE 1 BLAST HOST DRILL 100.000 MM EXPLOSIVE VAN 7.200 TONNE 1 | |
| 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.) | 20.56 | 19.670 | |
| 3n | Ore to OB ratio for the pit/mine during the year | 1:1.6 | 1:1.6 | Development is reviewed in the review of mining plan approved on 21.05.2024 |
| 3o | Total area put in use under different heads at the end of year | 46.60 | 39.78 | |
| 3p | Production of ROM mineral during last five-years period, as Applicable | 2018-19: 1000000 2019-20: 1000000 2020-21: 1000000 2021-22: 1000000 2022-23: 100000 2023-24: 100000 | 2018-19: 98474 2019-20: 534371 2020-21: 290204 2021-22: 346242 2022-23: 198629 2023-24: 189996 | |
| 3q | General remarks of inspecting officer on method of mining etc | Mining operations are carried out as per approved proposals. | | |

4. Solid Waste Management-Dumping

| S.N. | Item | Proposals | Actual Work | Remarks |
|------|---|--|---|---------|
| 4a | Separate dumping of topsoil, OB & mineral reject (Rule 32,33) | Proposed | OB- WD-1 | |
| 4b | Location of topsoil, OB & mineral reject dumps | Top Soil- E529624 to 529695 & N 2687792 & N 2687877 OB- E 529.05 to 529702 N 2687828 to 2688152 Mineral Reject- No Proposal | Top Soil & OB development is within approved proposal | |
| 4c | Number of Dumps within lease area and outside lease area | 4 | 4 | |

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| 4d | Location of Dumps w.r.t. ultimate pit limit (Rule 16) | Within UPL | within UPL | |
| 4e | Number of Active & Alive dumps | 1 | 1 | |
| 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 | Yes proposed | Yes Constructed | |
| 4i | Length of Retaining wall or garland drain all along dump | Proposed GD: 470m Proposed RW: 410m | GD: 500m RW: 450m | |
| 4j | Number of settling ponds | No Proposal | Nil | |
| 4k | Specific commends of inspecting officer on waste dump management | Separate dumping of topsoil & OB were being maintained within the lease area. | | |

5. 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 | No Proposal | Nil | |
| 5b | Area under backfilling of mined out area | No Proposal | Nil | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32) | Yes | Yes, used in plantation work | |
| 5d | Total area fully reclaimed & rehabilitated (Ha) | No Proposal | Nil | |
| 5e | General remarks of inspecting officer on backfilling, reclamation etc | full extraction of mineral from mined out area before starting backfilling adopted. | | |

6. 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 | Annual report on PMCP to be submitted in time | Yes submitted in time | |
| 6b | Area available for rehabilitation (Ha) | No Proposal | Nil | |
| 6c | Afforestation done (ha) | 1.00 | 1.00 | |
| 6d | No. of saplings planted during the year | 2000 | 2000 | |
| 6e | Cumulative no. of plants | Not proposed | 19044 | |
| 6f | Any other specific method of rehabilitation | Nil | Nil | |
| 6g | Cost incurred on watch & care during the year (in Rs.) | 3,20,000 | 3,50,000/- | |
| 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. | No Proposal | Nil | |

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|----|---|--|----------|--|
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir. | No Proposal | Nil | |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means | No Proposal | Nil | |
| 6m | Compliance of Rehabilitation of waste land within lease (i) Afforestation | No Proposal | Nil | |
| 6n | Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation | No Proposal | Nil | |
| 6o | Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation | No Proposal | Nil | |
| 6p | Compliance of Environment monitoring (core zone & buffer zone) | Proposed | Complied | |
| 6q | General remarks of inspecting officer on PMCP compliance & progressive closer operations | Plantation is being carried out to improve aesthetic beauty. | | |

7. Mineral Conservation

| S.N. | Item | Proposals | Actual Work | Remarks |
|------|--|--|-----------------|---------|
| 7a | ROM mineral dispatch or grade wise sorting within lease area | 200000 | 189996 | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical | Mechanised | As per proposal | |
| 7c | Different grade of mineral sort out at mine | Cement grade | As per proposal | |
| 7d | Any beneficiation process at mines | No Proposal | Nil | |
| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | Beneficiation process not adopted at mines. ROM mineral dispatch being done. | | |

8. Environment

| S.N. | Item | Proposals | Actual Work | Remarks |
|------|---|-------------------|--|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | 9100 cum | Nil | |
| 8b | Concurrent use or storage of topsoil | stacking proposed | stacking done | |
| 8c | Separate dumps for overburden waste rock, rejects and fines (Rule 33) | Proposed | Separate overburden dumps are observed | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | No Proposal | Nil | |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining | No Proposal | Nil | |

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| | operations (Pits, dumps etc) | | | |
| 8f | Baseline information on existence of plantation & additional plantation done (Rule 41) | 2000 | 2000, total 19044 plantation done so for. | |
| 8g | Survival rate | 80% | 80% | |
| 8h | Water sprinkling on roads to control airborne dust | Proposed | Water sprinkling done as per proposal | |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mine area | Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent. | | |

9. Compliance of Rule 45 (2023-24)

| S.N. | Item | Comments | Remarks |
|-------------|---|---|----------------|
| 9a | Status of submission of monthly and Annual returns | Monthly Returns submitted till Octobert'2023 & Annual Returns submitted for FY:2023-24. | |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | M.E: Ramesh kumar Patel Geologist: om Prakash Tiwari Manager: Surendra Nath Tiwari | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Area under pit: 19.07 Ha Dump: 10.021 Ha Infrastructure: 8.44 Ha Other (GD, RW): 2.25 Ha | |
| 9d | Scrutiny of Annual return on afforestation | Actual- 2000Nos Survival rate- 80% | |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade & Quantity) | Nil | |
| 9f | Scrutiny of Annual return on ROM stock and/or grade ore | As per Annual return | |
| 9g | Scrutiny of Annual return on sale value, Ex.Mine price & production costs | Sale Value- Rs. 0.00 Ex Mine Price- Rs. 389.99/- Production costs- Rs. 389.99/- | |
| 9i | Scrutiny of Annual return on Fixed assets | Total value of Fixed Assets Rs. 2506132916 (including other 5 leases) | |
| 9k | Scrutiny of Annual return on mining Machineries | BACK HOE 1.000 CUM 1 BACK HOE 1.000 CUM 2 TIPPER 10.000 CUM 8 DOZER 301.000 HP 1 WATER TANKER 12000.000 LITRE 1 EXPLOSIVE VAN 9.600 TONNE 1 BLAST HOST DRILL 100.000 MM EXPLOSIVE VAN 7.200 TONNE 1 | |

Date: 11.03.2025

Dr. Pukhraj Nenival,

Regional Controller of Mines