

MCDR INSPECTION REPORT**GENERAL**

| SN | Particulars | Details |
|------|--|--|
| 1(a) | Name of the Mine | Chhelana Bauxite, White Clay Mine |
| 1(b) | Name of Inspecting Officer & Designation | Dr Debajyoti Nayak, JMG |
| 1(c) | Accompanying Mines Representatives | Hiren Oza and Suresh Pipariya were the accompanying mines representatives at the time of the inspection. |
| 1(d) | Type of Inspection | Star Rating/SDF |
| 1(e) | Date of Inspection | 19.12.2024 |
| 2 | Total Lease Area (Ha) with breakup of Non-forest and forest land | Total Lease Area (Ha)-12.6767 Non-forest-12.6767 forest land-Nil |
| 3 | Mine code | 07GUJ02001 |
| 4 | IBM Registration Number under rule 45 of MCDR, 1988 | IBM/272/2011 |
| 5 | Name of the lessee, Address, phone, email and fax number | Shri Pratapsinh Abhalbhai Mori, Village-Pipli, Taluka-Kodinar, District-Gir Somnath, Gujarat-362720 Phone No. +91-98249-40540, email-rajhans.mori83@gmail.com |
| 6 | Village | Chhelana |
| 7 | Taluka/Mandal | Jafrabad |
| 8 | District | Amreli |
| 9 | Pin code | 362720 |
| 10 | State | Gujarat |
| 11 | Post office | Timbi |
| 12 | Nearest police station | Jafrabad |
| 13 | Nearest Railway station | Rajula Junction |
| 14 | Date of Grant of Mining Lease | 01.06.1979 |
| 15 | Date of Execution | 10.11.1979 |
| 16 | Date of opening of Mine | 10.11.1979 |
| 17 | Date of first Renewal, if applicable and its period & expiry | First Renewal -10.11.1999 to 09.11.2019 expiry-09.11.2019 |
| 18 | Date of second Renewal, if applicable and its period & expiry | Period: 09.11.2019 to 31.05.2029 expiry-31.06.2029 |
| 19 | Date of submission of renewal application if Mining Operations are continuing under deemed extension | Extended upto 31.06.2029 |
| 20 | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment | Shri Pratapsinh Abhalbhai Mori, Village-Pipli, Taluka-Kodinar, District-Gir Somnath, Gujarat-362720 Phone No. +91-98249-40540, email-rajhans.mori83@gmail.com |
| 21 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment | No Agent appointed in 2023-24 |
| 22 | Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines | No Mines Manager was appointed in 2023-24 because mining operation was halted due to the non-availability of an Environmental Clearance Certificate. |
| 23 | Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine | Not Applicable |
| 24 | Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 &57. | Not Applicable |
| 25 | Date of Approval of Mining Plan/Modified Mining Plan /Review of Mine Plan with five-year period and specific condition in approval letter, if any. | Letter no: 682(23)(73)/2000-MCCM(N)UDP dated: 22.12.2000. (01.04.2001 to 31.03.2006) Letter no: 684(4)(1)/MP-418/2022-23-GNR dated: 03.06.2022. (03.06.2022 to 31.03.2024) |
| 26 | 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: 682(23) MS-367/2006 MCCM(N)UDP dated:08.01.2007. (08.01.2007 to 31.03.2011). Letter no: 682(23) MS-622/11MCCM(N)UDP dated:16.03.2012. (16.03.2012 to 31.03.2016) |

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| | | Letter no: 682(23) (MS-622/2011) MCCM(N)UDP dated:20.09.2016. (20.09.2016 to 31.03.2020) |
| | | Letter no: 684(4)(1)/MP-271/2020-21-GNR/1043 dated:07.10.2020. (07.10.2020 to 31.03.2024) |
| 27 | Mineral(s) granted in lease and proved for mining | Bauxite & White Clay |
| 28 | Method of Mining(Opencast, Underground) | Opencast |
| 29 | Category (Fully Mechanised, Others or Manual) | Category-A |
| 30 | Captive/Non Captive | Non-Captive |

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 Exploration

| SN | Item | Proposals (2023-24) | Actual work (2023-24) | Remarks |
|----|--|---|---|---|
| 1a | Backlog of previous year | No backlog of previous year | NA | |
| 1b | Exploration over lease area for Geological axis 1 or 2. | G1 | G1 | Total lease area has been explored in G1 level. |
| 1c | Exploration Agency & Expenditure in lakh Rupees during the year | By Lessee it's self | No Exploration activities were done during the year 2023-24 | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | No proposal | NA | Total lease area is in G1 level |
| 1e | Balance reserves as on 01.04.2024 | 966,790.00 | No production was carried out in 2023-24. | |
| 1f | General remarks of inspecting officer on geology, exploration etc. | No Exploration activities were carried out during the year 2023-24. The total lease area has been explored in the G1 level (12.6767 ha), and the total resources present as of 31.03.2024 is 1,232,550.00 tonnes. | | |

2.0 Development

| SN | Item | Proposals (2023-24) | Actual work (2023-24) | Remarks |
|----|---|---|---|---|
| 2a | Location of development w.r.t. lease area | Pit-3, south of the lease area, 50-46 mRL 46-43 mRL, Nmax:2313627 Nmin:2313544 Emax:731533 Emin:731320 | No production and development reported in 2023-24. Pit-3 area 0.45Ha. | The mining operation did not carry out during the 2023-24 period. |
| 2b | Separate benches in topsoil, overburden and mineral (Rule 15) | Topsoil- 01 and mineral- 01. | No work was carried out. | |
| 2c | Stripping ratio or ore to OB ratio | 1:00 | No production reported in 2023-24 | |
| 2d | Quantity of topsoil generation in m3 | 847 m ³ | No topsoil generation reported in 2023-24 | |
| 2e | Quantity of overburden generation in m ³ | No proposal | NA | |
| 2f | General remarks of inspecting officer on development of pit w.r.t. type of deposit etc. | During inspection, it was observed that topsoil was present at the surface of the mine, below which bauxite formation (average thickness 6m) was found. Intercalated Clay minerals observed inside the bauxite formation. | | |

3.0 Exploitation

| SN | Item | Proposals (2023-24) | Actual work (2023-24) | Remarks |
|----|---|---------------------|-----------------------------------|---|
| 3a | Number of pits proposed for production | One (PIT-3) | No production reported in 2023-24 | No exploitation activities were carried out during 2023-24. |
| 3b | Quantity of ROM mineral production proposed | 168845 tonnes | Nil | |
| 3c | Recovery of saleable/usable mineral from ROM production | 90% | Nil | |
| 3d | Quantity of mineral reject generation | 18761 Tonnes | Nil | |
| 3e | Grade of mineral reject generation and threshold value declared | No proposal | NA | |
| | Quantity of sub-grade mineral | No proposal | NA | |

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| 3f | generation | | | | | |
| 3g | Grade of sub-grade mineral generation | (i) For Aluminous laterite: Al ₂ O ₃ : 20% (Min.) (ii) For Bauxite: Al ₂ O ₃ : 30% (min.) and SiO ₂ (Total):7% (max.) | Nil | | | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Mechanised method | Mechanised method | | | |
| 3i | Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject | No proposal | NA | | | |
| 3j | Provision of drilling & blasting in mineral benches | No Proposal of drilling & blasting in mineral benches | NA | | | |
| 3k | Provision of mining machineries in mineral benches | Excavator, Dumper & Water sprinkler. | Loader, Dumper & Water sprinkler. | | | |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Proposed height of benches in overburden and mineral is 6m. | Yes the height of benches in the overburden and mineral suitable for the method of mining proposed in MP/SOM. | | | |
| 3m | Total area covered under excavation/pits in Ha | 6.65 Ha | 6.26 Ha | | | |
| 3n | Ore to OB ratio for the pit/mine during the year | 1:00 | No work was carried out. | | | |
| 3o | Total area put in use under different heads at the end of year | Under mining-6.6501 Ha. Mineral storage-0.2139 Ha. Infrastructure-0.1 Ha. Road-0.4910 Ha. Plantation-0.6 Ha. | Under mining-6.26 Ha. Mineral storage -0.2139 Ha. Occupied by plant, buildings, residential, welfare buildings, and roads-0.87 Ha. Under PMCP-0.15Ha. | | | |
| 3p | Production of ROM mineral during last five-year period, as applicable in MT | 2019-20 | 0.187605 | 2019-20 | 0.002000 | |
| | | 2020-21 | 0.062502 | 2020-21 | 0.000500 | |
| | | 2021-22 | 0.124740 | 2021-22 | Nil | |
| | | 2022-23 | 0.168845 | 2022-23 | Nil | |
| | | 2023-24 | 0.168845 | 2023-24 | Nil | |
| 3q | General remarks of inspecting officer on method of mining etc. | No exploitation activities were reported in 2023-24. There were three active pits observed during the inspection. Mineral stacks are observed during field inspection, and this stack material is used for dispatch from the mine head. | | | | |

4.0 Solid Waste Management-Dumping

| SN | Item | Proposals (2023-24) | Actual work (2023-24) | Remarks |
|----|--|--|-----------------------|---|
| 4a | Separate dumping of topsoil, OB & mineral reject (Rule 32, 33) | 847 m ³ of topsoil and 18761 tonnes of mineral reject were proposed to generate | Nil | No Solid Waste Management activities were carried out during 2023-24. |
| 4b | Location of topsoil, OB & mineral reject dumps | Mineral Reject: Nmax:2313673 Nmin:2313643 Emax:731468 Emin:731414 | Nil | |

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|----|---|---|----|--|
| | | Topsoil: Nmax:2313627 Nmin:2313544 Emax:731533 Emin:731320 | | |
| 4c | Number of dumps within lease area and outside lease area | No dumps proposed | NA | |
| 4d | Location of dumps w.r.t. ultimate pit limit | No dumps proposed | NA | |
| 4e | Number of active & alive dumps | No dumps proposed | NA | |
| 4f | Number of dead dumps | No dumps proposed | NA | |
| 4g | Number of dumps stabilised | No dumps proposed | NA | |
| 4h | Whether Retaining wall or garland drain all along dumps are there | Not proposed | NA | |
| 4i | Length of Retaining wall or garland drain all along dump | Not proposed | NA | |
| 4j | Number of settling ponds | Not proposed | NA | |
| 4k | Specific comments of inspecting officer | No Solid Waste Management activities were carried out during 2023-24. Two mineral reject stacks found at the time of inspection, which were generated previously. | | |

5.0 Solid Waste Management-Backfilling

| SN | Item | Proposals (2023-24) | Actual work (2023-24) | Remarks |
|----|--|--|--|---------|
| 5a | Status on part or full extraction of mineral from mined out area before starting backfilling | Not proposed | NA | |
| 5b | Area under backfilling of mined out area | Not proposed | NA | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32) | Topsoil is used for plantation purposes. | Topsoil is used for plantation purposes. | |
| 5d | Total area fully reclaimed & rehabilitated | Not proposed | NA | |
| 5e | General remarks of inspecting officer on backfilling, reclamation etc | No backfilling and reclamation work carried out in 2023-24. Topsoil is used for plantation purposes. | | |

6.0 Progressive Mine Closure Plan

| SN | Item | Proposals (2023-24) | Actual work (2023-24) | Remarks |
|----|--|---------------------|---|---|
| 6a | Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). Details should be given in the format as given in Annexure-20. | Submitted | Annual report on PMCP submitted on time wherein no information given on PMCP works in the report. | Annual report on PMCP submitted incorrectly which violates the Rule 26(2) of the MCDR 2017. |
| 6b | Management of worked/mined out benches | No Proposal | NA | |
| | i) Area available for rehabilitation (ha) | | | |
| | ii) Afforestation done (ha) | | | |
| | iii) No. of saplings planted during the year | | | |
| | iv) Cumulative no. of plants | | | |
| | v) Any other specific method of rehabilitation | | | |
| | vi) Cost incurred on watch & care during the year | | | |
| 6c | Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings | No Proposal | NA | |

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| | iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means | | | |
| 6d | Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation | Green-belt Location: 2313663mN 2313450mN 731544mE 731468 mE Area- 0.25 ha 250 no.of plantations proposed to be done. Fencing Location: 2313650mN 2313450mN 731362mE 731468 mE Length-609m | 0.20 ha of the area and 50 no.of plantation done for the development of green belt. Fencing work was not carried out as per the proposal. | The survival rates of trees are notably low, and the number of trees planted falls short of the initial proposal. Moreover, the planned fencing work for the fiscal year 2023-24 was not executed as proposed. This constitutes a violation of Rule 11(1) of the MCDR 2017. |
| 6e | Compliance of Environmental monitoring (core zone & buffer zone) | Ambient Air Quality: 1 (Expenditure: 10000 Rs.) Water Quality: 1 (Expenditure: 10000 Rs.) Noise level survey: 1 (Expenditure: 10000 Rs.) | Submitted | |
| 6f | General remarks of inspecting officer on PMCP compliance & progressive | During inspection, it was observed that the survival rate of trees was significantly low (below 50%), and the number of trees planted was less than what was proposed for the 2023-24 period. Additionally, the fencing work, as outlined in the proposal, was not executed. | | |

7.0 Mineral Conservation

| 7. Mineral Conservation | | | | |
|-------------------------|--|---|--|---------|
| SN | Item | Proposals (2023-24) | Actual work (2023-24) | Remarks |
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | Total ROM dispatched in FY 2023-24 is 8247.15 tons. Cement grade: 7380.53 tons and Refractory grade: 866.620 tons. | | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical | Mechanical | Mechanical | |
| 7c | Different grade of mineral sorted out at mines | Different grade of mineral sorted out at mines proposed. | Cement, Abrasive, Refractory and Chemical grade types sorted out at mines. | |
| 7d | Any beneficiation process at mines | Not proposed | NA | |
| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | Mechanical method used to sort the minerals in the mines. No beneficiation process carried out during the time of inspection. | | |

8.0 Environment

| SN | Item | Proposals (2023-24) | Actual work (2023-24) | Remarks |
|----|--|---|---|---------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | 847 m ³ of topsoil proposed to generate to utilize in plantation | No mine development operation was carried out in 2023-24 | |
| 8b | Concurrent use or storage of topsoil | 847 m ³ of topsoil proposed to generate to utilize in plantation | No mine development operation was carried out in 2023-24. | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | One separate dump for mineral reject proposed in 2023-24 | No work was carried out. | |
| 8d | Use of overburden, waste rock, | Not proposed | NA | |

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| | rejects and fines dumps for restoring the land to its original use | | | |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.) | Not proposed | NA | |
| 8f | Baseline information on existence of plantation & additional plantation done | Cumulative plantation-0.1 ha, 100 no.of plants, additional plantation done-0.25 ha, 250 no.of plants | Cumulatively 0.25 ha area and 150 no.of plantation done for the development of green belt. | The survival rate of trees is very low and the lessee also not planted trees as per the proposal |
| 8g | Survival rate | 80% | 50% | |
| 8h | Water sprinkling on roads to control airborne dust | Proposed | Water sprinkling carried out on roads to control airborne dust | |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | During an inspection of mines, it was observed that the survival rate of the plantation was very low (<50%), and no.of trees planted was not as per the proposal period 2023-24. | | |

9.0 Compliance of Rule 45

| S. N | Item | COMMENTS | | Remarks |
|------|---|---|---|---------|
| | Status of submission of Monthly and Annual returns | All monthly returns for the year 2023-24 were submitted. Annual returns for the year 2023-24 were also submitted on 29/06/2024. | | |
| S. N | Item | Details GIVEN in A.R. | Observation of I/Officer | Remarks |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | No details given | The production activities were discontinued; only dispatch activity was going on. | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. in Ha | Mined out area-6.26 Ha. Infrastructure-0.870 Ha. Mineral stack-0.267 Ha. PMCP-0.15 Ha. | Mined out area-6.26 Ha. Infrastructure-0.870 Ha. Mineral stack-0.267 Ha. PMCP-0.15 Ha. | |
| 9d | Scrutiny of Annual return on afforestation | 125 total no. of trees | 50 total no. of trees | |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade & quantity) | No details given | No work done | |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | (a) Cement- 23008.92 Tonnes (b) Abrasive-300.0 tonnes (c) Refractory-2094.32 tonnes | Found in order | |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price & production cost | Ex. Mine price- a) Cement- 650 rupees/Tonnes b) Refractory-1900 rupees/Tonnes Production cost-Nil | Found in order | |
| 9i | Scrutiny of Annual return on fixed assets | No information given | - | |
| 9k | Scrutiny of Annual return on mining machineries | Shovel (hydraulic) Water tanker | Loader, Dumper & Water tanker | |

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

As per the official records, there are currently no outstanding violations. The MCDR/SDF inspection of the aforementioned mine was conducted on December 19, 2024. The lease has been placed under temporary discontinuance, but dispatch operations continue with the State Government's permission.

The following violations have been identified based on the submitted records and field inspection under Rules 26(2), and 11(1).

Additionally, the drone data submitted for FY 2023-24 has been reviewed and found to be in accordance with the SOP.

Dr Debajyoti Nayak
Junior Mining Geologist
IBM, Gandhingar