

MCDR INSPECTION REPORT (Star Rating)

1.0 GENERAL

| SN | Particulars | Details |
|----|---|--|
| 1 | Name of the Mine | Hadmatiya Bauxite mine s. No 121 |
| | Name of the Inspecting Officer | Naman Ekka SMG |
| | Date of Inspection | 11/01/2023 (Star Rating) |
| 2 | Total Lease Area (Ha) with breakup of Non-forest and forest land | 12.95.00 HA |
| 3 | Mine Code | 07GUJ07009 |
| 4 | IBM Registration Number under rule 45 of MCDR, 1988 | IBM/248/2011 |
| 5 | Name of the lessee, Address, phone, email and fax number | M/S SAURASHTRA CALCINE BAUXITE&ALLIED IND. HARSHAD ROAD /P.O-BHATIA,TA-KALYANPUR,DIST-DEVBHUMIDWARKA,PH NO- 02891-233199 |
| 6 | Village | HADMATIYA |
| 7 | Taluka/Mandal | KALYANPUR |
| 8 | District | DEVBHUMI DWARKA |
| 9 | Pincode | 361315 |
| 10 | State | GUJARAT |
| 11 | Post office | BHATIA |
| 12 | Nearest police station | BHATIA |
| 13 | Nearest Railway station | BHATIA |
| 14 | Date of Grant of Mining Lease | 27.10.1977 |
| 15 | Date of Execution | 30.11.1977 |
| 16 | Date of opening of Mine | 03.01.1978 |
| 17 | Date of first Renewal, if applicable and its period & expiry | |
| 18 | Date of second Renewal, if applicable and its period & expiry | |
| 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 | SHRI DWARKADAS RAICHURA HARSHAD ROAD / P.O-BHATIA,TA-KALYANPUR,DIST-DEVBHUMIDWARKA,PH NO- 02891-233199 |
| 21 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment | SHRI GULABBHAI PABARI HARSHAD ROAD / P.O-BHATIA,TA-KALYANPUR,DIST-DEVBHUMIDWARKA,PH NO- 02891-233199 |
| 22 | Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines | - |
| 23 | Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine | SRI VISHALKUMAR KAMALIYA, BE MINING, HARSHAD ROAD / P.O-BHATIA,TA-KALYANPUR,DIST-DEVBHUMIDWARKA,PH NO- 02891-233199 |
| 24 | Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57. | SRI BIREN CHAUHAN HARSHAD ROAD / P.O-BHATIA,TA-KALYANPUR,DIST-DEVBHUMIDWARKA,PH NO- 02891-233199 |
| 25 | Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any. | 06.06.2022 |
| 26 | Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any. | 684(4)(1)/mp-421/2022-23 |

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|----|---|----------------------------------|
| 27 | Mineral(s) granted in lease and proved for mining | CATEGORY-(111)+(122) - 982993 mt |
| 28 | Method of Mining(Opencast, Underground) | OPENCAST |
| 29 | Category (Fully Mechanised, Others or Manual) | Semi-mechanised |
| 30 | Captive/Non Captive | CAPTIVE |

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

Exploration

| SN | Item | Proposals (2021-22) | Actual work (2021-22) | Remarks |
|----|--|--|--|---------|
| 1a | Backlog of previous year | No Proposal | 05 Nos. of Trial Pits | |
| 1b | Exploration over lease area for Geological axis 1 or 2. | No Proposal | 05 Nos. of Trial Pits covering the area in G1 Category. | |
| 1c | Exploration Agency & Expenditure in lakh Rupees during the year | No Proposal | As reported Trial Pits Expenditure has been included in Mining Cost. | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | No Proposal | 05 Nos. of Trial Pits covering the area in G1 Category. | |
| 1e | Balance reserves. (31.032022) | 111 – 0972305 MT | 111 – 0972305 MT | |
| 1f | General remarks of inspecting officer on geology, exploration etc. | Exploration has been carried out by pitting. | | |

2.0 Development

| SN | Item | Proposals (2021-22) | Actual work (2021-22) | Remarks |
|----|---|---|----------------------------------|---------|
| 2a | Location of development w.r.t. lease area | In the proposed mining, mining will be start from north part of the area. | East-West | |
| 2b | Separate benches in topsoil, overburden and mineral (Rule 13) | No Proposal | As reported no work carried out. | |
| 2c | Stripping ratio or ore to OB ratio | 1:0.2 | 1:0.2 | |
| 2d | Quantity of topsoil generation in m ³ | No Proposal | As reported no work carried out. | |
| 2e | Quantity of overburden generation in m ³ | No Proposal | As reported no work carried out. | |
| 2f | General remarks of inspecting officer on development of pit w.r.t. type of deposit etc. | Development of Pt has not been carried out in Systematic Manner. | | |

3.0 Exploitation

| S N | Item | Proposals (2021-22) | Actual work (2021-22) | Remarks |
|-----|--|---------------------------------|---|---------|
| 3a | Number of pits proposed for production | 01 Pits proposed for production | As Reported 01 Pits was in production | |
| 3b | Quantity of ROM mineral production proposed | 116214 Tons | 28400 Tons | |
| 3c | Recovery of salable/usable mineral from ROM production | 100% | As Reported 100% Recovery of salable/usable mineral from ROM production was done. | |
| 3d | Quantity of mineral reject generation | 5811 | As reported Nil Mineral reject Generated | |

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|----|--|---|--|--|
| 3e | Grade of mineral reject generation and threshold value declared | - | As reported Nil Mineral reject Generated | |
| 3f | Quantity of sub-grade mineral generation | - | As reported Nil sub-grade mineral generated | |
| 3g | Grade of sub-grade mineral generation | - | As reported Nil sub-grade mineral generated | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | MANUAL | MANUAL | |
| 3i | Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject | No Proposal | As reported no work carried out. | |
| 3j | Provision of drilling & blasting in mineral benches | No Proposal | As reported no work carried out. | |
| 3k | Provision of mining machineries in mineral benches | Yes | Yes mining machineries were used. | |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Proposed | Yes | |
| 3m | Total area covered under excavation/pits | 6.4279 hect | 6.2095 hect | |
| 3n | Ore to OB ratio for the pit/mine during the year | 1:0 | 1:0 | |
| 3o | Total area put in use under different heads at the end of year | Area Under Mining 4.0208 | Area Under Mining 4.0208 | |
| 3p | Production of ROM mineral during last five-year period, as applicable | Yr 2017- 18 - 70069 Yr 2018 – 19 - 116214 Yr 2019- 20 - 116210 Yr 2020- 21 – 116214 Yr 2021-22 - 116214 | Yr 2017- 18 – 69780 Yr 2018 – 19 – 73750 Yr 2019- 20 - 29036 Yr 2020- 21 – NIL Yr 2021-22- 28400 | |
| 3q | General remarks of inspecting officer on method of mining etc. | Method of mining is open Cast without drilling & blasting as proposed in MP | | |

4.0 Solid Waste Management-Dumping

| S N | Item | Proposals (2021-22) | Actual work (2021-22) | Remarks |
|-----|---|---|----------------------------------|---------|
| 4a | Separate dumping of topsoil, OB & mineral reject (Rule 36, 37) | No Proposal | As reported no work carried out. | |
| 4b | Location of topsoil, OB & mineral reject dumps | No Proposal | As reported no work carried out. | |
| 4c | Number of dumps within lease area and outside lease area | No Proposal | As reported no work carried out. | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | No Proposal | As reported no work carried out. | |
| 4e | Number of active & alive dumps | No Proposal | As reported no work carried out. | |
| 4f | Number of dead dumps | No Proposal | As reported no work carried out. | |
| 4g | Number of dumps stabilised | No Proposal | As reported no work carried out. | |
| 4h | Whether Retaining wall or garland drain all along dumps are there | No Proposal | As reported no work carried out. | |
| 4i | Length of Retaining wall or garland drain all along dump | No Proposal | As reported no work carried out. | |
| 4j | Number of settling ponds | No Proposal | As reported no work carried out. | |
| 4k | Specific comments of inspecting | As reported no Solid Waste Management-Dumping carried out | | |

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| | officer | | | |
|---|--|--|--|---------|
| 5.0 Solid Waste Management-Backfilling | | | | |
| S N | Item | Proposals (2021-22) | Actual work (2021-22) | Remarks |
| 5a | Status on part or full extraction of mineral from mined out area before starting backfilling | Full Extraction | The area has not been fully mined out. | |
| 5b | Area under backfilling of mined out area | No proposal | The area has not been fully mined out. | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36) | Proposal of dumping the topsoil in 7.5 m safety barrier zone if generated any. | As reported no work carried out. | |
| 5d | Total area fully reclaimed & rehabilitated | No proposal. | As reported the area has not been fully mined out. | |
| 5e | General remarks of inspecting officer on backfilling, reclamation etc | As reported no Backfilling has been carried out. | | |

6.0 Progressive Mine Closure Plan

| S N | Item | Proposals (2021-22) | Actual work (2021-22) | 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. | Proposed | Submitted | |
| 6b | Management of worked/mined out benches 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 | - 0.0500 100 510 - 5000 | 0.0500 150 500 5000 | |
| 6c | Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means | NILL NIL 6737 ^{M2} 100M | NILL NIL 3780 ^{M2} 100M | |
| 6d | Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation | NILL | NILL | |
| 6e | Compliance of Environmental monitoring (core zone & buffer zone) | Proposed | As reported Compliance of Environmental monitoring (core zone & buffer zone) is done quarterly | |
| 6f | General remarks of inspecting | PMCP Compliance is done as per proposal. | | |

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| | officer on PMCP compliance & progressive | |
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7.0 Mineral Conservation

| S N | Item | Proposals (2021-22) | Actual work (2021-22) | Remarks |
|--------|--|---|--|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | Grade Wise Sorting Within Lease Area | Grade Wise Sorting Within Lease Area | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical | Manual | Manual | |
| 7c | Different grade of mineral sorted out at mines | As proposed Bauxite Is Hand Sorted Within The Quarry For Different Grade, Such As A Abresive Grade , Refractory Grade, Ceramic Grade,Cement Grade , (Low Grade) | As reported Bauxite Is Hand Sorted Within The Quarry For Different Grade, Such As A Abresive Grade , Refractory Grade, Ceramic Grade,Cement Grade ,(Low Grade) | |
| 7d | Any beneficiation process at mines | No such Proposal | As Reported No beneficiation process at mines is carried out. | |
| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | No issue has been reported. | | |

8.0 Environment

| S N | Item | Proposals (2021-22) | Actual work (2021-22) | Remarks |
|--------|---|---|---|---------|
| 8a | Separate removal and utilization of topsoil (Rule 36) | No Proposal | As reported no work carried out. | |
| 8b | Concurrent use or storage of topsoil | No Proposal | As reported no work carried out. | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 37) | No Proposal | As reported no work carried out. | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | No Proposal | As reported no work carried out. | |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | In the approved mining scheme it was proposed that the mined out land will be backfilled. | As reported no work carried out. | |
| 8f | Baseline information on existence of plantation & additional plantation done | 150 plants on 0.050 Ha. | As reported Cumulative 500 Plants has been planted with a survival rate of nearly 80% | |
| 8g | Survival rate | No Proposal | 80 % | |
| 8h | Water sprinkling on roads to control airborne dust | IT IS PROPOSED TO SPRINKLING WATER ON HAUL ROAD . | WATER SPRINKLING ON HAUL ROAD REGULLARLY. | |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines are | | | |

9.0 Compliance of Rule 45

| S. N. | Item | COMMENTS | Remarks |
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| | Status of submission of Monthly and Annual returns | M.R. Submitted upto – June 2023 A.R. submitted upto- 2022-23 on 27/06/2022 | | |
|-------|---|--|--------------------------|---|
| 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 | Geologist in charge : - MR BIREN CHAUHAN Mining Engineer: - MR VISHAL KAMALIYA | | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | (i) Already exploited and abandoned by opencast (O-C) mining – 3.530 Ha. (ii) MINERAL STORAGE – 0.40 Ha (iii) Occupied by plant, buildings, residential, welfare buildings and roads – 0.018 Ha. | | As per Approved MP Area under mining at the beginning of FY 2022-23 is 4.0208 Ha. |
| 9d | Scrutiny of Annual return on afforestation | Number of trees planted during the year – 250 Survival Rate – 80 % | | |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade & quantity) | NILL | | |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Graded Stock has been reported. | | |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price & production cost | Ex-Mine price and Cost of Production reported | | |
| 9i | Scrutiny of Annual return on fixed assets | Value of Fixed Assets Reported - NIL | | |
| 9k | Scrutiny of Annual return on mining machineries | Only Tipper Reported | | |

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-
Violation of Rule - 34A(3), 45(7).

Naman Ekka
Sr. Mining Geologist
