

MCDR INSPECTION REPORT

1.0 **GENERAL**

| S.No | Particulars | Details |
|------|--|--|
| 1(a) | Name of the Mine | रातडिया-नागरेचा बॉक्साइट खान |
| 1(b) | Name of Inspecting Officer & Designation | मनीष गुप्ता, सहायक खान नियंत्रक |
| 1(c) | Accompanying Mines Representatives | श्री डी.वी.पटेल, खान प्रबंधक |
| 1(d) | Type of Inspection | स्टार रेटिंग |
| 1(e) | Date of Inspection | 10.12.2024 |
| 2 | Total Lease Area (Ha) with breakup of Non-forest and forest land | 204.07 हे. |
| 3 | Mine Code | 07GUJ10008 |
| 4 | IBM Registration Number under rule 45 of MCDR, 1988 | IBM/727/2011 |
| 5 | Name of the lessee, Address, phone, email and fax number | GMDC Ltd |
| 6 | Village | रातडिया-नागरेचा |
| 7 | Taluka/Mandal | मांडवी |
| 8 | District | कच्छ |
| 9 | Pincode | 370 465 |
| 10 | State | गुजरात |
| 11 | Post office | नाना रातडिया |
| 12 | Nearest police station | मांडवी |
| 13 | Nearest Railway station | भुज |
| 14 | Date of Grant of Mining Lease | 19.01.1977 |
| 15 | Date of Execution | 19.01.1977 |
| 16 | Date of opening of Mine | 19.01.1977 |
| 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 | राज्य सरकार के आदेश संख्या MCR-1574-G-14-7655-(Part-I)-CHH दिनांक 13.03.2020 के द्वारा 31.03.2030 तक वैध |
| 20 | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment | श्री रूपवंत सिंह GMDC Ltd, खनिज भवन, 132 फिट रिंग रोड, वस्त्रपुर, अहमदाबाद (गुजरात) फोन- 07927911454, फ़ैक्स- 07927911321 दिनांक 14.06.2021 से |
| 21 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment | श्री एस.डी.भंडारी GMDC Ltd, गढ़सीसा, तालुका- मांडवी- 370445, कच्छ (गुजरात) फोन- 02834-282289, 082026, फ़ैक्स- 02834-282310 gadhsisa@gmdcltd.com दिनांक 04.09.2024 से |
| 22 | Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines | श्री डी.वी.पटेल GMDC Ltd, गढ़सीसा, तालुका- मांडवी- 370445, कच्छ (गुजरात) 9825163867, दिनांक 29.09.2024 से |
| 23 | Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine | वही |
| 24 | Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57. | हाँ |
| 25 | Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any. | 684(4)(1)/MP-380(114)/2021-22 GNR 2516, दिनांक 23.02.2022 2022-23 से 26-27 |

| | | |
|----|---|-------------|
| 26 | Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any. | -- |
| 27 | Mineral(s) granted in lease and proved for mining | बॉक्साइट |
| 28 | Method of Mining(Open cast, Underground) | Open cast |
| 29 | Category (Fully Mechanised, Others or Manual) | A |
| 30 | Captive/Non Captive | Non-Captive |

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

Exploration

| SN | Item | Proposals (2023-24) | Actual work (2023-24) | Remarks |
|----|--|--|---|--|
| 1a | Backlog of previous year | NIL | NIL | वर्ष 2023-24 के लिए पूर्वक्षण प्रस्ताव नहीं हैं। |
| 1b | Exploration over lease area for Geological axis 1 or 2. | - | G1- 68.8 हे. G2- NIL G3- NIL Non-mineralized- 135.27 हे. | |
| 1c | Exploration Agency & Expenditure in lakh Rupees during the year | NIL. | NIL. | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | NIL. | NIL. | |
| 1e | Balance reserves as on 01.04.2023 | 27,40,600 टन | 28,34,700 टन | उत्पादन कम हुआ है। |
| 1f | General remarks of inspecting officer on geology, exploration etc. | पूर्व में 98 Borehole लगा कर कुल 1424 मी. ड्रिलिंग की गए हैं। Exploration कार्य संतोषजनक है। | | |

2.0 Development

| SN | Item | Proposals (2023-24) | Actual work (2023-24) | Remarks |
|----|---|--|-----------------------|---|
| 2a | Location of development w.r.t. lease area | Pit No- 3, 4 | Pit No- 3 | उत्पादन लक्ष्य से कम होने के कारण सीमित स्थान पर कार्य किया गया है। |
| 2b | Separate benches in topsoil, overburden and mineral (Rule 15) | Yes | Yes | |
| 2c | Stripping ratio or ore to OB ratio | 1:0.93 | 1:0.33 | उत्पादन कम हुआ है। |
| 2d | Quantity of topsoil generation in m ³ | 1955.12 मी ³ | 20 मी ³ | |
| 2e | Quantity of overburden generation in m ³ | 61006.89 मी ³ | 10112 मी ³ | |
| 2f | General remarks of inspecting officer on development of pit w.r.t. type of deposit etc. | पट्टा क्षेत्र की Topography undulating है। खान में कुल 8 पिट बनाई गयी हैं। Open cast 'A' तरीके से खनिज निक्षेप को उचित प्रकार से विकसित किया गया है। | | |

3.0 Exploitation

| SN | Item | Proposals (2023-24) | Actual work (2023-24) | Remarks |
|----|---|---------------------|-----------------------|---|
| 3a | Number of pits proposed for production | 02 | 01 | निरीक्षण के समय N 23° 01' 27" E 69° 15' 0" पर खनन कार्य पाया गया। |
| 3b | Quantity of ROM mineral production proposed | 1,00,000 टन | 5887.5510 टन | मांग कम होने के कारण उत्पादन कम किया गया है। |
| 3c | Recovery of saleable/usable mineral from ROM production | 1,00,000 टन | 5887.5510 टन | |
| 3d | Quantity of mineral reject generation | NIL | NIL | |
| 3e | Grade of mineral reject generation and threshold value declared | NIL | NIL | |

| | | | | |
|----|--|--|---|--|
| 3f | Quantity of sub-grade mineral generation | NIL | NIL | |
| 3g | Grade of sub-grade mineral generation | NIL | NIL | |
| 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 | NIL | NIL | |
| 3j | Provision of drilling & blasting in mineral benches | Proposed | NIL | Rock Breaker का उपयोग कर कार्य किया जा रहा है। |
| 3k | Provision of mining machineries in mineral benches | Yes Excavator, Dumper, Loader, Breaker | Yes Excavator, Dumper, Loader, Breaker | |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | 3.0 मी | 3.0 मी | |
| 3m | Total area covered under excavation/pits | 28.98 हे. | 28.70 हे. | |
| 3n | Ore to OB ratio for the pit/mine during the year | 1:0.93 | 1:0.33 | उत्पादन कम हुआ है। |
| 3o | Total area put in use under different heads at the end of year | O/C Workings: 28.98 हे. Infrastructure, Roads: 1.7 हे. Mineral stock, Others: 7.64 हे. | O/C Workings: 28.98 हे. Infrastructure, Roads: 1.7 हे. Mineral stock, Others: 7.64 हे. | |
| 3p | Production of ROM mineral during last five-year period, as applicable | 2019-20: 100000 टन 2020-21: 100000 टन 2021-22: 100000 टन 2022-23: 100000 टन 2023-24: 100000 टन | 2019-20: 80087.00 टन 2020-21: 93633.126 टन 2021-22: 26878.69 टन 2022-23: 47443.894 टन 2023-24: 5887.5510 टन | |
| 3q | General remarks of inspecting officer on method of mining etc. | वर्तमान में मांग की होने के कारण उत्पादन कम हुआ है। निरीक्षण के समय खनन कार्य होता हुआ नहीं पाया गया। | | |

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 36, 37) | NIL | NIL | उत्खनित Top soil का उपयोग वृक्षारोपण में किया गया है। |
| 4b | Location of topsoil, OB & mineral reject dumps | NIL | NIL | |
| 4c | Number of dumps within lease area and outside lease area | NIL | NIL | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | NIL | NIL | |
| 4e | Number of active & alive dumps | NIL | NIL | |
| 4f | Number of dead dumps | NIL | NIL | |
| 4g | Number of dumps stabilised | 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 | NIL | NIL | |
| 4k | Specific comments of inspecting officer | Dump के प्रस्ताव नहीं हैं। OB तथा Top soil का उपयोग कर वृक्षारोपण का स्थान विकसित किया गया है। | | |

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 | NIL | NIL | |

| | | | | |
|----|---|---|-----|--|
| 5b | Area under backfilling of mined out area | NIL | NIL | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36) | Yes | Yes | |
| 5d | Total area fully reclaimed & rehabilitated | NIL | NIL | |
| 5e | General remarks of inspecting officer on backfilling, reclamation etc | उत्पन्न OB को उपयोग कर वृक्षारोपण के लिए 0.8992 हे. क्षेत्र विकसित किया गया है। | | |

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) | As per rule | Submitted on 30.04.2024 | |
| 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 | NIL | NIL | |
| 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 | NIL | NIL | |
| 6d | Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation | 300 0.5 हे. | 325 0.5 हे. | |
| 6e | Compliance of Environmental monitoring (core zone & buffer zone) | Yes | Yes | |
| 6f | General remarks of inspecting officer on PMCP compliance & progressive | वृक्षारोपण किया गया है। क्षेत्र में वर्षा कम होने से पानी की कमी रहती है। Drip irrigation तरीके से अच्छा काम किया गया है। | | |

7.0 Mineral Conservation

| SN | Item | Proposals (2023-24) | Actual work (2023-24) | Remarks |
|----|--|--|--|---|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | Grade wise sorting. | Grade wise sorting. | मांग की कमी होने के कारण उत्पादन कम हुआ है। |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical | Manual | Manual | |
| 7c | Different grade of mineral sorted out at mines | Abrasives grains: Al ₂ O ₃ > 52% Chemical: Al ₂ O ₃ 40-51.99% Cement: Al ₂ O ₃ 20-40% Refractory: Al ₂ O ₃ >52% | Abrasives grains: Al ₂ O ₃ > 52% Chemical: Al ₂ O ₃ 40-51.99% Cement: Al ₂ O ₃ 20-40% Refractory: Al ₂ O ₃ >52% | |
| 7d | Any beneficiation process at mines | NIL | NIL | |
| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | निम्न श्रेणी खनिज को Blend कर उपयोग किया जाता है। | | |

8.0 Environment

| SN | Item | Proposals (2023-24) | Actual work (2023-24) | Remarks |
|----|---|---------------------|-----------------------|---------|
| 8a | Separate removal and utilization of topsoil | YES | YES | |

| | | | | |
|----|---|--|----------------|---|
| | (Rule 36) | | | |
| 8b | Concurrent use or storage of topsoil | Concurrent use | Concurrent use | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 37) | NIL | NIL | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | NIL | NIL | |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | NIL | NIL | |
| 8f | Baseline information on existence of plantation & additional plantation done (Rule 44) | 300 | 325 | |
| 8g | Survival rate | 75% | 60% | दिनांक 30.01.2025 को नियम 11(1) का उल्लंघन दिया गया है। |
| 8h | Water sprinkling on roads to control airborne dust | Proposed. | Achieved. | |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines are | खान एवं निकटवर्ती क्षेत्र में Aesthetic beauty ठीक है। | | |

9.0 Compliance of Rule 45

| S. N | Item | COMMENTS | | Remarks |
|------|---|--|---|--|
| | Status of submission of Monthly and Annual returns | नवम्बर, 2024 की मासिक विवरणी दिनांक 06.12.2024 को जमा की गई। वर्ष 2023-24 की वार्षिक विवरणी दिनांक 21.06.2024 को जमा की गई। | | |
| 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 | श्री बी.बी.सांखत, खनन अभियंता श्री ए.बी.लिंबचिया, भू वैज्ञानिक | श्री डी.वी.पटेल, खनन अभियंता* श्री ए.बी.लिंबचिया, भू वैज्ञानिक | *दिनांक 04.10.2024 को निर्धारित प्रपत्र में सूचना दी गयी है। |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | O/C Workings: 28.708 हे. Infrastructure, Roads: 1.7 हे. Mineral storage, Others: 7.64 हे. | O/C Workings: 28.708 हे. Infrastructure, Roads: 1.7 हे. Mineral storage, Others: 7.64 हे. | **उत्पादन कम होने के कारण पिछले वर्ष से अधिक है। |
| 9d | Scrutiny of Annual return on afforestation | 325 | 325 | |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade & quantity) | 0.0 | 0.0 | |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | 76437.411 टन | 76437.411 टन | |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price & production cost | Production cost: 1266.03 | Production cost: 1266.03** | |
| 9i | Scrutiny of Annual return on fixed assets | ₹ 50737268.00 | ₹ 50737268.00 | |
| 9k | Scrutiny of Annual return on mining machineries | Back hoe- 01 Dumper- 02 Wheel loader- 01 | Back hoe- 01 Dumper- 02 Wheel loader- 01 | |

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

पिछले निरीक्षण दिनांक 02.12.2023 में कोई उल्लंघन नहीं पाया गया था। वर्तमान निरीक्षण तारक मूल्यांकन के लिए किया गया। दिनांक 17.01.2025 को मूल्यांकन कर दिया गया है, मूल्यांकन के पश्चात खान 4 स्टार रही है। निरीक्षण के समय खनन कार्य होता हुआ नहीं पाया गया। निरीक्षण के समय नियम संख्या 11(1) का उल्लंघन पाये जाने पर दिनांक 30.01.2025 को उल्लंघन पत्र जारी किया गया है।

(मनीष गुप्ता)
सहायक खान नियंत्रक
भारतीय खान ब्यूरो
गांधीनगर

