

MCDR INSPECTION REPORT

1.0 **GENERAL**

| S.No | Particulars | Details |
|------|--|--|
| 1(a) | Name of the Mine | नर्मदा सीमेंट चूनापत्थर खान |
| 1(b) | Name of Inspecting Officer & Designation | मनीष गुप्ता, सहायक खान नियंत्रक |
| 1(c) | Accompanying Mines Representatives | श्री अभिषेक भारद्वाज, खान प्रबंधक |
| 1(d) | Type of Inspection | रिव्यू खनन योजना |
| 1(e) | Date of Inspection | 10.10.2022 |
| 2 | Total Lease Area (Ha) with breakup of Non-forest and forest land | 565.9398 हे. (Forest - 177.25 हे., Non Forest - 388.6898 हे.) |
| 3 | Mine Code | 38GUJ02004 |
| 4 | IBM Registration Number under rule 45 of MCDR, 1988 | IBM/441/2011 |
| 5 | Name of the lessee, Address, phone, email and fax number | अल्ट्राटेक सीमेंट लि. पो.बॉक्स नंबर - 10, जाफराबाद, जिला - अमरेली 365 540 (गुजरात) Phone : 0794 - 245105, Fax number : 0794 - 245109 |
| 6 | Village | बाबरकोट |
| 7 | Taluka/Mandal | जाफराबाद |
| 8 | District | अमरेली |
| 9 | Pincode | 360 540 |
| 10 | State | गुजरात |
| 11 | Post office | जाफराबाद |
| 12 | Nearest police station | जाफराबाद |
| 13 | Nearest Railway station | राजुला जंक्शन |
| 14 | Date of Grant of Mining Lease | 25.09.1978 |
| 15 | Date of Execution | 02.01.1979 |
| 16 | Date of opening of Mine | 15.10.1981 |
| 17 | Date of first Renewal, if applicable and its period & expiry | लागू नहीं |
| 18 | Date of second Renewal, if applicable and its period & expiry | लागू नहीं |
| 19 | Date of submission of renewal application if Mining Operations are continuing under deemed extension | लागू नहीं |
| 20 | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment | श्री के.सी.इंवर अल्ट्राटेक सीमेंट लि., महाकाली केक्स रोड, अंधेरी (प.), मुंबई 400 093 Phone : 022 - 66917800 Email - occupierutcl@adityabirla.com Fax number : 02794 - 245537, 09.11.2018 |
| 21 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment | श्री राजेंद्र कुमार गोयल नर्मदा सीमेंट-जाफराबाद वर्क्स, बाबरकोट, जिला - अमरेली (गुजरात) 365 540 Phone : 8003895390 email - rajendra.goyal@adityabirla.com 21.10.2019 |

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| 22 | Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines | श्री अभिषेक भारद्वाज नर्मदा सीमेंट-जाफराबाद वर्क्स, बबरकोट, जिला - अमरेली (गुजरात) 365 540 Phone : 98264 29066 email - abhishek.bhardwaj@adityabirla.com 20.11.2020 |
| 23 | Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine | श्री अभिषेक भारद्वाज नर्मदा सीमेंट-जाफराबाद वर्क्स, बबरकोट, जिला - अमरेली (गुजरात) 365 540 Phone : 98264 29066 email - abhishek.bhardwaj@adityabirla.com 15.04.2021, खनन अभियांत्रिकी (स्नातक), १६ वर्ष |
| 24 | Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57. | हां। |
| 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-188/2018MDRD(N)/GNR 10.01.2019 |
| 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 | चूनापत्थर, मार्ल |
| 28 | Method of Mining(Opencast, Underground) | Opencast |
| 29 | Category (Fully Mechanised, Others or Manual) | Fully 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 | NIL | N.A | |
| 1b | Exploration over lease area for Geological axis 1 or 2. | No proposal | N.A | |
| 1c | Exploration Agency & Expenditure in lakh Rupees during the year | Not proposed | N.A | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Not proposed | 206.30 hect. | |
| 1e | Balance reserves as on 01.04.2022. | -- | 111 - 13.16 221 - 0.7 331 - 4.7* | * Includes CRZ & Forest area. |
| 1f | General remarks of inspecting officer on geology, exploration etc. | Part of lease area is still remaining for exploration. | | |

2.0 Development

| SN | Item | Proposals (2021-22) | Actual (2021-22) | Remarks |
|----|---|--|--|---------|
| 2a | Location of development w.r.t. lease area | North block E/W 748900 to 749950 N/S 231090 to 2312000 | North block E/W 74890 to 749950 N/S 2310900 to 2312000 | |

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|----|---|--|--|--|
| | | South block E/W 752400 to 753500 N/S 231020 to 2311110 | South block E/W 752400 to 753500 N/S 231020 to 2311110 | |
| 2b | Separate benches in topsoil, overburden and mineral (Rule 15) | NIL | N.A | |
| 2c | Stripping ratio or ore to OB ratio | 1:0 | 1:0 | |
| 2d | Quantity of topsoil generation in m3 | NIL | N.A | Soil removed is directly used for plantation. |
| 2e | Quantity of overburden generation in m3 | NIL | N.A | Removed low grade material used for bund preparation, haul road barrier. |
| 2f | General remarks of inspecting officer on development of pit w.r.t. type of deposit etc. | Development of pit is satisfactory. To eliminate the ground vibration Eastern block is being operated with Eco-friendly Surface Miner. | | |

3.0 Exploitation

| S N | Item | Proposals (2021-22) | Actual work (2021-22) | Remarks |
|--------|--|--|--|--|
| 3a | Number of pits proposed for production | 1 in North block & 03 in Eastern block | As per proposal | |
| 3b | Quantity of ROM mineral production proposed | 1.8 Million tonnes | 0.982 Million tonnes | Fewer requirements as per plant requirement. |
| 3c | Recovery of saleable/usable mineral from ROM production | 100% | 100% | |
| 3d | Quantity of mineral reject generation | NIL | N.A | |
| 3e | Grade of mineral reject generation and threshold value declared | NIL | N.A | |
| 3f | Quantity of sub-grade mineral generation | Nil | N.A | |
| 3g | Grade of sub-grade mineral generation | NIL | N.A | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | NIL | N.A | |
| 3i | Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject | N.A | N.A | |
| 3j | Provision of drilling & blasting in mineral benches | In north block | In north block | East block is operated through Surface Miner. |
| 3k | Provision of mining machineries in mineral benches | Yes | As per proposal. | |
| 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 | 267.930 ha | 267.930 ha | |
| 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 | Pit- 267.930 ha Others- 90.030 ha | Pit- 267.930 ha Others- 90.030 ha | |
| 3p | Production of ROM mineral during last five-year period, as applicable | 2017-18: 2.3 MnT 2018-19: 1.8 MnT 2019-20: 1.8 MnT 2020-21: 1.8 MnT 2021-22: 1.8 MnT | 2017-18: 1.45 MnT 2018-19: 1.45 MnT 2019-20: 1.47 MnT 2020-21: 1.25 MnT 2021-22: 0.982 MnT | In 2021 Cyclone "Taufae" had caused severe damage to plant. After hit plant was under repair |

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| | | | | and maintenance up to 05.08.2021. hence actual production for year 2021-225 is very less. |
| 3q | General remarks of inspecting officer on method of mining etc. | Method of mining is proper and as per approved Mining plan. To use the low grade material imported sweetener is purchased. | | |

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) | NIL | N.A | Area is free from OB. |
| 4b | Location of topsoil, OB & mineral reject dumps | NIL | N.A | |
| 4c | Number of dumps within lease area and outside lease area | NIL | N.A | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 14) | NIL | N.A | |
| 4e | Number of active & alive dumps | NIL | N.A | |
| 4f | Number of dead dumps | NIL | N.A | |
| 4g | Number of dumps stabilised | NIL | N.A | |
| 4h | Whether Retaining wall or garland drain all along dumps are there | NIL | N.A | |
| 4i | Length of Retaining wall or garland drain all along dump | NIL | N.A | |
| 4j | Number of settling ponds | NIL | N.A | |
| 4k | Specific comments of inspecting officer | No overburden or rejects available in mines. Zero percent waste mining is adopted by suitable blending of Marl. | | |

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 | NIL | N.A | |
| 5b | Area under backfilling of mined out area | NIL | N.A | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36) | NIL | N.A | Encountered thin layer of soil used for plantation. |
| 5d | Total area fully reclaimed & rehabilitated | 1.6 हे. | 2.91 हे. | |
| 5e | General remarks of inspecting officer on backfilling, reclamation etc | Backfilling is not practical as there is no overburden in the area. | | |

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) | As per rule | Submitted on 28.04.2022 | |
| 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 | NIL 1.6 ha 3000 -- | N.A 2.91 ha 6210 21.20 lakhs | Improvement in green belt. Total 6900 m. Fencing has |

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| | iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year | | | been replaced and 320 m fencing has been repaired. which was damaged due to Cyclone "Tauktae" |
| 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 | NA | |
| 6d | Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation | NIL | NA | |
| 6e | Compliance of Environmental monitoring (core zone & buffer zone) | Environment monitoring (air quality, water quality & noise level) shall be done regularly. | Regular monitoring has been carried out. | Within limit. |
| 6f | General remarks of inspecting officer on PMCP compliance & progressive | PMCP report has submitted on time as per the provision of rule 26 of MCDR, 2017. Work for PMCP is satisfactory. | | |

7.0 Mineral Conservation

| S N | Item | Proposals (2021-22) | Actual (2021-22) | Remarks |
|-----|--|---|---------------------|--|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | 1.8 Million tonne | 0.982 Million tonne | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical | -- | -- | No mineral sorting proposal in mining plan. |
| 7c | Different grade of mineral sorted out at mines | -- | -- | 100% mineral extracted by mechanised method is crushed directly. |
| 7d | Any beneficiation process at mines | NIL | N.A | |
| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | Marl intermixed with limestone and cannot be segregated. Minerals have used 100%. | | |

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. | NIL | |
| 8b | Concurrent use or storage of topsoil | Concurrent use | As per proposal. | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 37) | NIL | N.A | There is no dump in the area. |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land | NIL | N.A | |

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| | to its original use | | | |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | 1.6 हे. | 2.91 हे. | |
| 8f | Baseline information on existence of plantation & additional plantation done (Rule 44) | 3000 | 6210 | |
| 8g | Survival rate | -- | 91% | |
| 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 | The aesthetic environment of lease area is good. | | |

9.0 Compliance of Rule 45

| S. N | Item | COMMENTS | Remarks |
|------|--|--|---------|
| | Status of submission of Monthly and Annual returns | Monthly return submission on time (08.100.2022) A.R. submitted for the year 2021-22 on 29.06.2022 | |

| 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 | Mining engineer- Sh. Abhishek Bharadwaj Geologist- Sh. Hemant Kumar Dhankar | Mining engineer- Sh. Vejanand Suva Geologist- Sh. Santosh Sharma | Form H submitted. |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Open pit- 267.93 हे. Reclaimed area- 42.85 हे. Others- 90.03 हे. | | |
| 9d | Scrutiny of Annual return on afforestation | 6210 | | |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade & quantity) | -- | | |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | NIL | | |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price & production cost | Ex. Mine price - ₹ 221.11 | | |
| 9i | Scrutiny of Annual return on fixed assets | ₹ 3082801161.00 | | |
| 9k | Scrutiny of Annual return on mining machineries | Rock Drill, Shovel, Wheel loader, Dumper, Dozer, Motor Grader, Explosive van, Surface Miner. | | |

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

पिछले निरीक्षण दिनांक 08.09.2021 में कोई उल्लंघन नहीं पाया गया था। वर्तमान निरीक्षण रिप्यू खनन योजना की जांच के लिए किया गया। वर्ष 2021-22 के स्टार रेटिंग का ऑनलाइन पोर्टल में दिनांक 26.12.2022 को मूल्यांकन कर दिया गया है। मूल्यांकन के पश्चात खान के Points 94% से 92% रहे हैं। निरीक्षण के समय कोई उल्लंघन नहीं पाया गया ।

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दिनांक : 09.01.2023

(मनीष गुप्ता)
सहायक खान नियंत्रक