

## MCDR INSPECTION REPORT

1.0 **GENERAL**

| S.No | Particulars  | Details  |
|------|--|--|
| 1(a) | Name of the Mine   | धरमपुर काजावदरी चूनापत्थर खान  |
| 1(b) | Name of Inspecting Officer & Designation   | मनीष गुप्ता, सहायक खान नियंत्रक  |
| 1(c) | Accompanying Mines Representatives   | श्री एस.बी.प्रसाद, खान प्रबंधक   |
| 1(d) | Type of Inspection   | रिव्यू खनन योजना   |
| 1(e) | Date of Inspection   | 15.10.2022   |
| 2    | Total Lease Area (Ha) with breakup of Non-forest and forest land                                     | Non Forest – 18.21 हे.   |
| 3    | Mine Code  | 38GUJ08269   |
| 4    | IBM Registration Number under rule 45 of MCDR, 1988  | IBM/238/2011   |
| 5    | Name of the lessee, Address, phone, email and fax number   | सौराष्ट्र केमीकल्स लि (निरमा लि. का प्रभाग)<br>बिरलासागर, पोरबंदर (गुजरात) 360 576<br>Phone : 0286 – 2242479, Fax number : 0286– 2245431<br>Email - <a href="mailto:nirma_pbr@nirma.co.in">nirma_pbr@nirma.co.in</a> |
| 6    | Village  | धरमपुर   |
| 7    | Taluka/Mandal  | राणावाव  |
| 8    | District   | पोरबंदर  |
| 9    | Pincode  | 360 560  |
| 10   | State  | गुजरात   |
| 11   | Post office  | धरमपुर   |
| 12   | Nearest police station   | उधोगनगर, पोरबंदर   |
| 13   | Nearest Railway station  | राणावाव  |
| 14   | Date of Grant of Mining Lease  | 30.03.1964   |
| 15   | Date of Execution  | 30.03.1964   |
| 16   | Date of opening of Mine  | 21.11.1978   |
| 17   | Date of first Renewal, if applicable and its period & expiry   | 30.03.1984   |
| 18   | Date of second Renewal, if applicable and its period & expiry  | 21.03.2003   |
| 19   | Date of submission of renewal application if Mining Operations are continuing under deemed extension | Extended up to 31.03.2030  |
| 20   | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment           | श्री शैलेश वी. सोनारा<br>बिरलासागर, पोरबंदर (गुजरात) 360 576<br>Phone : 0286 – 2242479, Fax number : 0286– 2245431<br>Email - mines@nirma.co.in  |
| 21   | Name of the Mine Agent with Address, phone, email, fax number and date of appointment                | श्री मनीष डी. पटेल<br>बिरलासागर, पोरबंदर (गुजरात) 360 576<br>Phone : 0286 – 2242479, Fax number : 0286– 2245431<br>Email - mines@nirma.co.in   |
| 22   | Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines    | श्री शशि भूषण प्रसाद<br>बिरलासागर, पोरबंदर (गुजरात) 360 576<br>Phone : 0286 – 2242479, Fax number : 0286– 2245431  |

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|----|---|---|
|    |   | Email - quarry_pbr@nirma.co.in  |
| 23 | Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine  | श्री राहुल गेडिया<br>बिरलासागर, पोरबंदर (गुजरात) 360 576<br>Phone : 0286 - 2242479, Fax number : 0286- 2245431<br>Email - quarry_pbr@nirma.co.in<br>खनन अभियांत्रिकी (स्नातक) |
| 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-234/2019MDRD(N)GNR, दिनांक<br>12.07.2019  |
| 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   |
| 28 | Method of Mining(Open cast, Underground)  | Open cast   |
| 29 | Category (Fully Mechanised, Others or Manual)   | A (OTFM)  |
| 30 | Captive/Non Captive   | Captive   |

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

#### 1.0 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.            | NIL                                     | N.A                                | Proposed 8 bore holes of 2019-20 have been drilled in 2021-22. |
| 1c | Exploration Agency & Expenditure in lakh Rupees during the year    | NIL                                     | N.A                                |  |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2     | NIL                                     | N.A                                |  |
| 1e | Balance reserves as on 01.04.2022.                                 | 105182 Tonnes (UNFC 111, 121, 122)      | 105182 Tonnes (UNFC 111, 121, 122) |  |
| 1f | General remarks of inspecting officer on geology, exploration etc. | Proposed exploration has been achieved. |                                    |  |

#### 2.0 Development

| SN | Item  | Proposals (2021-22)                        | Actual (2021-22) | Remarks |
|----|---|--|------------------|---------|
| 2a | Location of development w.r.t. lease area                     | 2396481N to 570268E<br>2396634N to 570415E | As per proposal. |         |
| 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              |         |

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|----|---|--|-----|--|
| 2d | Quantity of topsoil generation in m3  | 1  | 1   |  |
| 2e | Quantity of overburden generation in m3   | NIL  | N.A |  |
| 2f | General remarks of inspecting officer on development of pit w.r.t. type of deposit etc. | The deposit is flat bedded. Area is almost free from overburden. Development of pit is satisfactory. |     |  |

**3.0 Exploitation**

| S<br>N | Item   | Proposals (2021-22)   | Actual work (2021-22)  | Remarks   |
|--------|--|---|--|---|
| 3a     | Number of pits proposed for production   | 02  | 02   |   |
| 3b     | Quantity of ROM mineral production proposed  | 24000 tonnes  | 8949.83 tonnes   | Less captive requirement.                           |
| 3c     | Recovery of saleable/usable mineral from ROM production  | 86%   | As proposed.   |   |
| 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   | 2400 tonnes   | 700 tonnes   |   |
| 3g     | Grade of sub-grade mineral generation  | Undersize chemical grade limestone.   | Undersize chemical grade limestone.  |   |
| 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          | N.A   | N.A  |   |
| 3j     | Provision of drilling & blasting in mineral benches  | Yes   | No   |   |
| 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   | 12.88 ha  | 12.88 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- 12.88 ha<br>Plantation- 1.35 ha<br>Others- 1.28 ha   | Pit- 12.88 ha<br>Plantation- 1.35 ha<br>Others- 1.28 ha  |   |
| 3p     | Production of ROM mineral during last five-year period, as applicable                                | 2017-18: 24000 tonne<br>2018-19: 24000 tonne<br>2019-20: 24000tonne<br>2020-21: 24000 tonne<br>2021-22: 24000 tonne | 2017-18: 5308.99 tonne<br>2018-19: 21955.55 tonne<br>2019-20: 5034.685 tonne<br>2020-21: 5820.12 tonne<br>2021-22: 8949.83 tonne | Production is less due to decrease demand of plant. |
| 3q     | General remarks of inspecting officer on method of mining etc.                                       | Mining is done with the help of Rock-breaker. Working method is satisfactory.                                       |  |   |

**4.0 Solid Waste Management-Dumping**

| S | Item | Proposals (2021-22) | Actual work | Remarks |
|---|------|---------------------|-------------|---------|
|---|------|---------------------|-------------|---------|

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| N  |   |   | (2021-22) |                              |
|----|---|---|-----------|------------------------------|
| 4a | Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)    | NIL   | N.A       | Mining area is devoid of 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 16)             | 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                           | Area is free from OB. Limestone is outcropping in the area. |           |                              |

### 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 | Partial   | Partial               |                              |
| 5b  | Area under backfilling of mined out area   | NIL   | N.A                   | Not matured for backfilling. |
| 5c  | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)      | NIL   | N.A                   | Utilized for plantation.     |
| 5d  | Total area fully reclaimed & rehabilitated   | NIL   | N.A                   |                              |
| 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                      | Yes                              |   |
| 6b  | Management of worked/mined out benches<br>i) Area available for rehabilitation (ha)<br>ii) Afforestation done (ha)<br>iii) No. of saplings planted during the year<br>iv) Cumulative no. of plants<br>v) Any other specific method of rehabilitation<br>vi) Cost incurred on watch & care during the year | NIL<br>0.15 ha<br>300<br><br>NIL | N.A<br>0.15 ha<br>600<br><br>NIL |   |
| 6c  | Compliance on reclamation and rehabilitation by backfilling<br>i) Voids available for backfilling (L X B X D)   | NIL                              | NA                               | No reclamation is proposed by backfilling as waste material is not available. |

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|----|---|--|--|---------------|
|    | ii) Void filled by waste/tailings<br>iii) Afforestation on the backfilled area<br>iv) Rehabilitation by making water reservoir<br>v) Any other specific means |  |  |               |
| 6d | Compliance of Rehabilitation of waste land within lease<br>i) Afforestation<br>ii) Area rehabilitated (ha)<br>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  | Work for PMCP is satisfactory.   |  |               |

### 7.0 Mineral Conservation

| S<br>N | Item   | Proposals (2021-22)                 | Actual (2021-22)                    | Remarks                                       |
|--------|--|-------------------------------------|-------------------------------------|---|
| 7a     | ROM Mineral dispatch or grade-wise sorting within lease area                         | 24000 tonne                         | 8949.83 tonne                       | Undersize limestone has stacked at pit floor. |
| 7b     | Method of grade-wise mineral sorting i.e. manual or mechanical                       | Manual                              | Manual                              |   |
| 7c     | Different grade of mineral sorted out at mines                                       | Undersize chemical grade limestone. | Undersize chemical grade limestone. |   |
| 7d     | Any beneficiation process at mines   | NIL                                 | N.A                                 |   |
| 7e     | General remarks of inspecting officer on Mineral conservation & beneficiation issues | Manual sorting is done.             |                                     |   |

### 8.0 Environment

| S<br>N | Item  | Proposals (2021-22)                                    | Actual work (2021-22)                          | Remarks                       |
|--------|---|--|--|-------------------------------|
| 8a     | Separate removal and utilization of topsoil (Rule 36)   | NIL  | 1m <sup>3</sup>                                | Used in plantation.           |
| 8b     | Concurrent use or storage of topsoil  | NIL  | Encountered soil has used in plantation.       |                               |
| 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 to its original use           | NIL  | N.A  |                               |
| 8e     | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Mined out pits will be utilized as rain water storage. | Pits are being used for rain water harvesting. |                               |
| 8f     | Baseline information on existence of plantation & additional plantation done (Rule 44)                      | 300 plants   | 600 plants                                     |                               |
| 8g     | Survival rate   | 80%  | 50%  |                               |
| 8h     | Water sprinkling on roads to control airborne dust  | Proposed.  | Achieved.                                      |                               |

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|    |   |                                   |
|----|---|-----------------------------------|
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines are | General mine environment is good. |
|----|---|-----------------------------------|

**9.0 Compliance of Rule 45**

| S. N | Item   | COMMENTS   | Remarks |
|------|--|--|---------|
|      | Status of submission of Monthly and Annual returns | M.R. Submitted up to– October, 2022<br>A.R. submitted for the year 2021-22 on 02.06.2022 |         |

| 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. Rahul Gediya<br>Geologist- Sh. Govind khatri              | Mining engineer- Sh. Rahul Gediya<br>Geologist- Sh. Govind khatri |         |
| 9c    | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Pit- 12.88 ha<br>Plantation- 1.35 ha<br>Others- 1.28 ha                        |   |         |
| 9d    | Scrutiny of Annual return on afforestation  | 600  |   |         |
| 9e    | Scrutiny of Annual return on mineral reject generation (Grade & quantity)                     | 700 t  |   |         |
| 9f    | Scrutiny of Annual return on ROM stock and/or graded ore                                      | Chemical grade: Opening stock 63369.00 tonne<br>Closing stock – 64069.00 tonne |   |         |
| 9g    | Scrutiny of Annual return on sale value, Ex. Mine price & production cost                     | ₹385.60  |   |         |
| 9i    | Scrutiny of Annual return on fixed assets   | ₹ 2428042  |   |         |
| 9k    | Scrutiny of Annual return on mining machineries   | Shovel, Front end loader, Dumper   |   |         |

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

पिछले निरीक्षण दिनांक 31.12.2021 में नियम संख्या 11(1), 33 का उल्लंघन पाया गया था। इन दोनों नियमों की अनुपालना दिनांक 06.07.2022 को हो गई है। वर्तमान निरीक्षण रिट्यू खनन योजना की जांच के लिए किया गया, कोई उल्लंघन नहीं पाया गया। वर्ष 2021-22 के लिए स्टार रेटिंग मूल्यांकन कर दिया गया है। मूल्यांकन के पश्चात खान के Points 86% से 82% रहे हैं।

गांधीनगर

दिनांक : 04.01.2023

( मनीष गुप्ता )

सहायक खान नियंत्रक