

## MCDR INSPECTION REPORT

### 1.0 GENERAL

| SN   | Particulars  | Details   |
|------|--|---|
| 1(a) | Name of the Mine   | Khirasara Limestone Mines, Sy. No.-209/1P- Area-2.0Ha                                       |
| 1(b) | Name of Inspecting officer   | Naman Ekka, Sr. Mining Geologist  |
| 1(c) | Date of Inspection   | 25/06/2021  |
| 1(d) | Accompanying officer   | Sh. Ashwin Kumar Zala   |
| 2    | Total Lease Area (Ha) with breakup of Non-forest and forest land   | ML Area: 2.0ha<br>Survey Nos.: 209/1P   |
| 3    | Mine code  | 38GUJ21024  |
| 4    | IBM Registration Number under rule 45 of MCDR, 1988  | IBM/8542/2012   |
| 5    | Name of the lessee, Address, phone, email and fax number   | Sh. Punja Bhai A.Odedra, Lessee, Indira Nagar, Near Birla Colony, Porbandar-360 575 Gujarat |
| 6    | Village  | Khirasara   |
| 7    | Taluka/ Mandal   | Ranavav   |
| 8    | District   | Porbandar   |
| 9    | Pin code   | 360575  |
| 10   | State  | Gujarat   |
| 11   | Post office  | Ranavav   |
| 12   | Nearest police station   | Ranavav   |
| 13   | Nearest Railway station  | Ranavav   |
| 14   | Date of Grant of Mining Lease  | 20.12.1997  |
| 15   | Date of Execution  | 26.5.1998,50Yr (Expiry-25.5.2048 As per MMDR Act 2015 )                                     |
| 16   | Date of opening of Mine  | 1998  |
| 17   | Date of first Renewal, if applicable and its period & expiry   | NA  |
| 18   | Date of second Renewal, if applicable and its period & expiry  | NA  |
| 19   | Date of submission of renewal application if Mining Operations are continuing under deemed extension                                   | NA  |
| 20   | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment   | Sh. Punja Bhai A.Odedra, Lessee, Indira Nagar, Near Birla Colony, Porbandar-360 575 Gujarat |
| 21   | Name of the Mine Agent with Address, phone, email, fax number and date of appointment  | Sh. Punja Bhai A.Odedra, Lessee, Indira Nagar, Near Birla Colony, Porbandar-360 575 Gujarat |
| 22   | Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines                                      | NA  |
| 23   | Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine | Mining Engineer - Prafulkumar Ashokbhai Talapada  |
| 24   | Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.          | Mining Engineer - Prafulkumar Ashokbhai Talapada;<br>Geologist - NIL                        |
| 25   | Date of Approval of Mining Plan/Modified Mining Plan with five-  | 682(23)(769)/97/MCCM(N)/UDP Dated 25.11.1997  |

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|    | year period and specific condition in approval letter, if any.   |  |
| 26 | Date of Approval of Scheme of Mining /Modified Scheme of Mining with five-year period and specific condition in approval letter, if any. | 682(23) (MS) (769)/97-MCCM (N)/UDP Dated 27.6.2013 for the period of 2013-14 to 2017-18. 684(4)(1)MP-136/2018-GNR Dated 29.8.2018 for 2018-19 to 2022-23 |
| 27 | Mineral(s) granted in lease and proved for mining  | Limestone  |
| 28 | Method of Mining(Opencast, Underground)  | Opencast Mining  |
| 29 | Category (Fully Mechanised, Others or Manual)  | A-Category   |
| 30 | Captive/Non Captive  | Non-Captive  |

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

### **1.0 Exploration**

| SN | Item   | Proposals ( 2020-21)  | Actual work                          | Remarks   |
|----|--|---|--------------------------------------|---|
| 1a | Backlog of previous year   | It was proposed to drill 04 BH in 2018-19   | Not commenced till date              | Violation under Rule 11(1) has been pointed out by Sr. ACOM |
| 1b | Exploration over lease area for Geological axis 1 or 2.            | No Proposal for 2020-21   | No work done.                        |   |
| 1c | Exploration Agency & Expenditure in lakh Rupees during the year    | No Exploration proposal for 2020-21   | No work done                         |   |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2     | No proposal   | Entire area has to be explored in G1 |   |
| 1e | Re-estimated reserves (Million Tonnes) as on 01.4.2018             | Reserves (111,121&122) 150787T & Remaining resources 89320T (as per approved RMP 29.5.18)   |                                      |   |
| 1f | General remarks of inspecting officer on geology, exploration etc. | This is small lease area of 2ha & lease area is developed by open mine pit. At the time of inspection Mine was closed by the order of GPCB. |                                      |   |

### **2.0 Development**

| SN | Item  | Proposals ( 2020-21)  | Actual work         | Remarks |
|----|---|---|---------------------|---------|
| 2a | Location of development w.r.t. lease area                     | It was proposed to work as earmarked in plate no 5C from Bench mRL 37.50 to 34.50 mRL | No work carried out |         |
| 2b | Separate benches in topsoil, overburden and mineral (Rule 15) | Proposed for separate removal of topsoil  | No work carried out |         |
| 2c | Stripping ratio or ore to OB ratio                            | Not Proposed  | NIL                 |         |
| 2d | Quantity of topsoil generation in m3                          | Not Proposed  | Not generated       |         |
| 2e | Quantity of overburden generation in m3                       | Not Proposed  | NIL.                |         |

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|----|---|---|
| 2f | General remarks of inspecting officer on development of pit w.r.t. type of deposit. | During inspection Mine was closed by the order of GPCB. |
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### **3.0 Exploitation**

| SN | Item   | Proposals ( 2020-21)  | Actual work  | Remarks   |
|----|--|---|--|---|
| 3a | Number of pits proposed for production   | Single pit No.1, proposed as earmarked  | No work carried out  | Entire ROM is utilising by proper sizing & sorting & blending as per buyer's specification. |
| 3b | Quantity of ROM mineral production proposed  | 25002T(2020-21)   | No production carried out, only despatch has been done.  |   |
| 3c | Recovery of saleable/usable mineral from ROM production  | 100%  | No work carried out  |   |
| 3d | Quantity of mineral reject generation  | Not Proposed  | NIL  |   |
| 3e | Grade of mineral reject generation and threshold value declared                                      | Above THV & below cut-off grade limestone   | THV-Cao-34%(Min) & Mgo-5% (Max)  |   |
| 3f | Quantity of sub-grade mineral generation   | Not Proposed  | NIL  |   |
| 3g | Grade of sub-grade mineral generation  | Not Proposed  | NIL  |   |
| 3h | Manual / Mechanised method adopted for segregating from ROM  | Manual/Mechanised   | No work carried out  |   |
| 3i | Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject          | Not Proposed  | NIL  | Excavator & rock breaker is being used. J/H drilling & blasting is not using.               |
| 3j | Provision of drilling & blasting in mineral benches  | J/H drilling & blasting not Proposed  | No work carried out  |   |
| 3k | Provision of mining machineries in mineral benches   | Excavator/ Rock breaker proposed.   | No work carried out  |   |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | No OB benches. Regular bench height   | Irregular bench height in limestone  |   |
| 3m | Total area covered under excavation/pits   | 0.6038Ha proposed in plan period  | Total excavated area is about 0.4Ha  |   |
| 3n | Ore to OB ratio for the pit/mine during the year   | Not proposed  | Nil  |   |
| 3o | Total area put in use under different heads at the end of year                                       | --  | Total excavated area is about 1.55Ha   |   |
| 3p | Production of ROM mineral during last five-year period, as applicable                                | Yr-2016-17- 28034T<br>Yr-2017-18-30182T<br>Yr-2018-19- 25002T<br>Yr-2019-20- 25002T<br>Yr-2020-21-25002T  | Yr-2016-17- 30135T<br>Yr-2017-18- 30020T<br>Yr-2018-19- 23600T<br>Yr-2019-20- 520 T<br>Yr-2020-21-0.00 T |   |
| 3q | General remarks of inspecting officer on method of mining etc.                                       | Method of mining is mechanised open cast (without drilling & blasting) with Excavator & tipper combination. At the time of inspection Mine was closed by the order of GPCB. |  |   |

#### **4.0 Solid Waste Management-Dumping**

| SN | Item  | Proposals ( 2020-21)   | Actual work                  | Remarks  |
|----|---|--|------------------------------|--|
| 4a | Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)    | Not Proposed   | NIL, Not reported presently. | Topsoil generated is utilised for plantation purposes, if any. |
| 4b | Location of topsoil, OB & mineral reject dumps                    | Not Proposed   | NIL                          |  |
| 4c | Number of dumps within lease area and outside lease area          | Not proposed   | NIL                          |  |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16)             | Not proposed   | NA                           |  |
| 4e | Number of active & alive dumps                                    | Not proposed   | NA                           | No OB /Waste dump existed in lease area.                       |
| 4f | Number of dead dumps  | Not proposed   | NA                           |  |
| 4g | Number of dumps stabilised  | Not 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 topsoil & overburden is generated & reported by lessee presently. No OB dump existed. At the time of inspection Mine was closed by the order of GPCB. |                              |  |

#### **5.0 Solid Waste Management-Backfilling**

| SN | Item   | Proposals ( 2020-21)   | Actual work | Remarks                                   |
|----|--|--|-------------|---|
| 5a | Status on part or full extraction of mineral from mined out area before starting backfilling | Not Proposed   | NIL         | No O/B is proposed & generated presently. |
| 5b | Area under backfilling of mined out area   | Not Proposed   | NIL         |   |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)      | Not Proposed   | NIL         |   |
| 5d | Total area fully reclaimed & rehabilitated   | Not Proposed   | NIL         |   |
| 5e | General remarks of inspecting officer on backfilling, reclamation etc.                       | There are no OB/Waste generation. Hence no backfilling & reclamation proposed & not carried out. At the time of inspection Mine was closed by the order of GPCB. |             |   |

#### **6.0 Progressive Mine Closure Plan**

| SN | Item  | Proposals ( 2020-21) | Actual work    | Remarks                                 |
|----|---|----------------------|----------------|---|
| 6a | Whether Annual report on PMCP submitted on time and correctly   | Proposed             | Not submitted, | VL pointed out under rule 26(2) of MCDR |
| 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 | Not Proposed         | NIL            |   |

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|----|--|---|------|--|
| 6c | Compliance on reclamation and rehabilitation by backfilling<br>i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings<br>iii) Afforestation on the backfilled area<br>iv) Rehabilitation by making water reservoir v) Any other specific means | Not Proposed  | NIL  |  |
| 6d | Compliance of Rehabilitation of waste land within lease i) Afforestation<br>ii) Area rehabilitated (ha)<br>iii) Method of rehabilitation   | Not Proposed  | NIL  |  |
| 6e | Compliance of Environmental monitoring (core zone & buffer zone)   | Proposed  | done |  |
| 6f | General remarks of inspecting officer on PMCP compliance & progressive   | Area is devoid of OB/Waste. Hence no backfilling & reclamation proposed & carried out. Periodical environment monitoring is being carried out by third party & under limit. |      |  |

### **7.0 Mineral Conservation**

| SN | Item   | Proposals ( 2020-21)   | Actual work    | Remarks |
|----|--|--|----------------|---------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area                         | Grade wise sorting   | No work done   |         |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical                       | Manual & M/c   | both           |         |
| 7c | Different grade of mineral sorted out at mines                                       | Proposed   | Chemical Grade |         |
| 7d | Any beneficiation process at mines   | NIL  | NIL            |         |
| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | There is no mineral rejects/subgrade generated. Entire ROM is utilises by proper sizing, sorting & blending as per buyers requirement. At the time of inspection Mine was closed by the order of GPCB. |                |         |

### **8.0 Environment**

| SN | Item  | Proposals ( 2020-21)                                  | Actual work | Remarks   |
|----|---|---|-------------|---|
| 8a | Separate removal and utilization of topsoil (Rule 32)   | Not Proposed  | NIL         | Topsoil is removing separately & utilising for plantation purposes, if any. |
| 8b | Concurrent use or storage of topsoil  | Not proposed  | NIL         |   |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                      | No proposal   | NIL         |   |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | No proposal   | NIL         |   |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc. | No proposal   | NIL         |   |
| 8f | Baseline information on existence of plantation & additional plantation done (Rule 41)                      | Plantation proposed-122 nos. & 0.111Ha & 105m fencing | Not done    | Violation of Rule 11(1)   |

|    |   |  |    |  |
|----|---|--|----|--|
| 8g | Survival rate   | No Proposal  | NA |  |
| 8h | Water sprinkling on roads to control airborne dust                                | Proposal   |    |  |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines are | There are no OB/Waste generation. Hence no backfilling & reclamation proposed & not carried out. At the time of inspection Mine was closed by the order of GPCB. |    |  |

### 9.0 Compliance of Rule 45

| S.N | Item  | Proposals             | Actual work  | Remarks                        |
|-----|---|-----------------------|--|--------------------------------|
| 9a  | Status of submission of Online Monthly and Annual returns                                     |                       | M.R. Submitted up to till date – Submitted online & A.R.2020-21 is submitted.  |                                |
| 9b  | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           |                       | Mining Engineer - Prafulkumar Ashokbhai Talapada; Geologist - NIL  | Violation of Rule 55(1)(c) (i) |
| 9c  | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. |                       | Covered under current (O/C) Workings – 0.346 Ha.<br>Occupied by plant, buildings, residential, welfare buildings & roads - 0.240 Ha. |                                |
| 9d  | Scrutiny of Annual return on afforestation  | Plantation done - 125 | Insufficient plantation found  |                                |
| 9e  | Scrutiny of Annual return on mineral reject generation (Grade & quantity)                     |                       | No Mineral Reject generation   |                                |
| 9f  | Scrutiny of Annual return on ROM stock and/or graded ore                                      |                       | ROM Stock – 0.00 Tonnes<br>Graded Ore –<br>Chemical Grade –<br>Opening Stock - 12953.180 T<br>Closing Stock - 4259.830               |                                |
| 9g  | Scrutiny of Annual return on sale value, Ex. Mine price & production cost                     |                       | Ex Mine Price – Rs. 222.60 / tonnes  |                                |
| 9i  | Scrutiny of Annual return on fixed assets   |                       | Value of Fixed Assets – Rs. 0.00   |                                |
| 9k  | Scrutiny of Annual return on mining machineries   | SHOVEL (HYDRAULIC)    | No Mining Machinery present at Mine site.  |                                |

10.

| <b>Details of violations observed during current inspection and compliance position of violation pointed out</b> |            |               |                     |           |               |
|--|------------|---------------|---------------------|-----------|---------------|
| Violation observed   |            |               | Show cause position |           |               |
| Rule NO.   | Issued on  | Compliance on | Rule NO.            | Issued on | Compliance on |
| 11(1), 26(2), 33, 34(1), 55(1)3(i)   | 02/08/2021 |               |                     |           |               |

Naman Ekka  
Sr. Mining Geologist