

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR INSPECTION REPORT**

**Gandhinagar regional office**

**Mine file No :** GUJ/JUNA/LST-197

**Mine code :** 38GUJ08268

- (i) Name of the Inspecting : 003 ) MANISH GUPTA  
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sh. Sameer bhai, Son of Lessee  
Official with  
Designation
- (iv) Date of Inspection : 17/01/2018
- (v) Prev.inspection date : 28/12/2013

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : VIRODAR (S.NO.50)
- (b) **Registration NO.** : 545
- (c) **Category** : A Other than Fully Mech.
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : GUJARAT
- District : JUNAGARH
- Village : VIRODAR
- Taluka : VERAVAL
- Post office : VIRODAR
- Pin Code : 362265
- FAX No. : N/A
- E-mail : samirminerals@yahoo.co.in
- Phone : 02876-247142 (O)
- (f) **Police Station** : SUTRAPADA
- (g) **First opening date** : 01/01/1989
- (h) **Weekly day of rest** :
2. **Address for correspondance** : VILLAGE & POST- VIRODAR  
TALUKA-VERAVAL  
DISTT-JUNAGARH
3. (a) **Lease Number** : GUJ0264
- (b) **Lease area** : 40.46
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 29/03/2008
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : NURMOHAMAD KALUBHAI PATNI  
C/O SORATH MINERAL TRADING  
CO. JUNAGARH GUJARAT  
Phone:  
FAX :

Owner : NURMOHAMAD KALUBHAI PATNI  
C/O M/S SORABH MINERAL  
TRADING CO. BHALKA ROAD,  
VERAVAL DIST-JUNAGARH(GUJ)  
JUNAGARH GUJARAT  
Phone:  
FAX :

6. Date of approval of Mining Plan/Scheme of Mining : Renewal under rule 22 MCR1960 11/04/2011

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

| Sl.No. | Item  | Proposals | Actual work   | Remarks |
|--------|---|-----------|---|---------|
| 1a     | Backlog of previous year  | N.A.      | No backlog of previous year.  |         |
| 1b     | Exploration over lease area for geological axis 1 or 2              | N.A.      | As per lessee all lease area has covered under geological axis 1 or 2 |         |
| 1c     | Exploration Agencies and Expenditure in lakh rupees during the year | N.A.      | Lessee itself.  |         |
| 1d     | Balance area to be explored to bring Geological axis in 1 or 2      | N.A.      | None at present.  |         |
| 1e     | Balance reserve as on 01/04/20                                      | N.A.      | 90000 M.T.  |         |
| 1f     | General remarks of inspecting officers on geology, exploration etc  | N.A.      | Carried out exploration is satisfactory.                              |         |

## Development :

| Sl.No. | Item   | Proposals | Actual work                                   | Remarks                                  |
|--------|--|-----------|---|--|
| 2a     | Location of development w.r.t.lease area                       | N.A.      | Development in pit is almost as per proposal. |  |
| 2b     | Separate benches in topsoil, overburden and minerals (Rule 15) | N.A.      | Not required.                                 | Area is free from top soil & overburden. |
| 2c     | Stripping ratio or ore to OB ratio                             | N.A.      | NIL.  | Area is free from OB.                    |
| 2d     | Quantity of topsoil generation in m3                           | N.A.      | NIL.  | Area is free from top soil.              |
| 2e     | Quantity of overburden generation in m3                        | N.A.      | NIL.  |  |

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| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | N.A. | Development of pit in reference to deposit is satisfactory. |
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**Exploitation:**

| Sl.No. | Item  | Propasals | Actual work                                      | Remarks   |
|--------|---|-----------|--|---|
| 3a     | Number of pit proposed for production   | N.A.      | Two.   |   |
| 3b     | Quantity of ROM mineral production proposed   | 250014 m3 | 433150 M.T.                                      |   |
| 3c     | Recovery of sailable/usable mineral from ROM production   | N.A.      | 100 %  | Undersize limestone has supplied to cement plant. |
| 3d     | Quantity of mineral reject generation   | N.A.      | NIL.   | Area is free from mineral reject.                 |
| 3e     | Grade of mineral rejects generation and threshold value declared.                               | N.A.      | NIL.   |   |
| 3f     | Quantity of sub grade mineral generation.   | N.A.      | There is no sub grade mineral in the lease area. |   |
| 3g     | Grade of sub grade mineral generation   | N.A.      | NIL.   | No sub grade mineral generation.                  |
| 3h     | Manual / Mechanised method adopted for segregating from ROM                                     | Manual.   | Manual hand picking.                             |   |
| 3i     | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | N.A.      | Not required.                                    |   |
| 3j     | Provision of drilling and blasting in mineral benches   | N.A.      | Drilling aqnd blasting not carried out.          |   |

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|----|--|------|---|-----------------------|
| 3k | Provision of mining machineries in mineral benches   | N.A. | JCB and Tipper/truck combination observed.                            |                       |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | N.A. | Yes, suitable for adopted method of working.                          |                       |
| 3n | Ore to OB ratio for the pit/mine during the year.  | N.A. | NIL.  | Area is free from OB. |
| 3p | Production of ROM mineral during the last five year period as applicable                             | N.A. | 2014-15: 65286 M.T.,<br>2015-16: 186386 M.T.,<br>2016-17: 433150 M.T. |                       |
| 3q | General remarks of inspecting officers on method of mining etc.                                      | N.A. | Adopted method of mining is satisfactory for this type of deposit.    |                       |

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Solid Waste Management - Dumping:

| Sl.No. | Item   | Propasals | Actual work                      | Remarks  |
|--------|--|-----------|----------------------------------|--|
| 4a     | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | N.A.      | Top soil has used in plantation. | Area is almost free from top soil, OB and mineral rejects. |
| 4b     | Location of topsoil, OB and mineral reject dumps                 | N.A.      | NIL.                             |  |
| 4c     | Number of dumps within lease area and outside of lease area      | N.A.      | NIL.                             |  |
| 4d     | Location of dumps w.r.t. ultimate pit limit (Rule 16)            | N.A.      | NIL.                             |  |
| 4e     | Number of active and alive dumps.                                | N.A.      | NIL.                             |  |
| 4f     | Number of dead dumps.  | N.A.      | NIL.                             |  |
| 4g     | Number of dumps established.                                     | N.A.      | NIL.                             |  |

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|----|--|------|---|---------------------------------|
| 4h | Whether Retaining wall or garland drain all along dumps are there. | N.A. | Not required.   | There is no dump in the area.   |
| 4i | Length of Retaining wall or garland drain all along dumps          | N.A. | NIL.  |                                 |
| 4j | Number of settling ponds   | N.A. | NIL.  | There is no tailing generation. |
| 4k | Specific comments of inspecting officer on waste dump management   | N.A. | Area is almost free from waste/OB. Overall waste dump management is satisfactory. |                                 |

#### Solid Waste Management - Backfilling:

| Sl.No. | Item  | Propasals | Actual work   | Remarks                             |
|--------|---|-----------|---|-------------------------------------|
| 5a     | Status of part or full extraction of mineral from mined out area before starting backfilling. | N.A.      | Mineral has been extracted in full depth.               |                                     |
| 5b     | Area under backfilling of mined out area  | N.A.      | Not applicable as the pit is active.                    |                                     |
| 5c     | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)     | N.A.      | Top soil has used in plantation.                        | Top soil is negligible in the area. |
| 5d     | Total area fully reclaimed and rehabilitated  | N.A.      | No area is matured for backfilling and reclamation.     |                                     |
| 5e     | General remarks of inspecting officers on backfilling and reclamation etc.                    | N.A.      | No area has considered for backfilling and reclamation. |                                     |

#### Progressive Mine Clousre Plan:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

|    |  |      |   |  |
|----|--|------|---|--|
| 6a | Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).                               | N.A. | PMCP report for the year 2016-17 has not submitted.   | Violation of rule 26(2) has pointed out. |
| 6b | Area available for rehabilitation (ha) .   | N.A. | No mined out area is available for rehabilitation.    |  |
| 6c | afforestation done (ha).   | N.A. | 4.0 hect.   |  |
| 6d | No. of saplings planted during the year  | 200  | 200   |  |
| 6e | Cumulative no .of plants   | N.A. | 300   |  |
| 6f | Any other method of rehabilitation   | N.A. | To develop as water reservoir.                        |  |
| 6g | Cost incurred on watch and care during the year  | N.A. | Noy available with lessee.                            |  |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D | N.A. | No area is matured for backfilling.                   |  |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings          | N.A. | NIL.  | No area is matured for backfilling.      |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area       | N.A. | NIL.  |  |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir  | N.A. | Pits are active. No area is matured for this process. |  |

|    |   |      |  |
|----|---|------|--|
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.          | N.A. | NIL.                                       |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation                          | N.A. | Plantation has done.                       |
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)              | N.A. | NIL.                                       |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation             | N.A. | Plantation.                                |
| 6p | Compliance of environmental monitoring (core zone and buffer zone)                                | N.A. | Environmental monitoring has carried out.  |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | N.A. | Status of PMCP compliance is satisfactory. |

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Mineral Conservation:

| Sl.No. | Item  | Propasals | Actual work   | Remarks |
|--------|---|-----------|---|---------|
| 7a     | ROM Mineral dispatch or grade-wise sorting within lease area    | N.A.      | Grade wise sorting on size basis within lease area. |         |
| 7b     | Method of grade-wise mineral sorting i.e. manual or mechanical. | Manual.   | Manual hand picking has practised.                  |         |
| 7c     | Different grade of mineral sorted out at mines.                 | N.A.      | Chemical grade, Cement grade.                       |         |

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|----|--|------|---|
| 7d | Any beneficiation process at mines   | N.A. | Not required.                                   |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | N.A. | Status of mineral conservation is satisfactory. |

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Environment:

| Sl.No. | Item  | Propasals | Actual work                      | Remarks  |
|--------|---|-----------|----------------------------------|--|
| 8a     | Separate removal and utilization of topsoil (Rule 32)   | N.A.      | Yes.                             | Top soil is negligible in the area.                            |
| 8b     | Concurrent use or storage of topsoil  | N.A.      | Top soil has used in plantation. |  |
| 8c     | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                      | N.A.      | NIL.                             | There is no overburden, waste rock and rejects in the area.    |
| 8d     | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | N.A.      | NIL.                             | Overburden, waste rock, rejects not available for backfilling. |
| 8e     | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | N.A.      | Adopted.                         |  |
| 8f     | Baseline information on existence of plantation and additional plantation done (Rule 41)                    | N.A.      | Plantation has carried out.      |  |
| 8g     | Survival rate   | N.A.      | 60%                              |  |

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|----|--|------|---|
| 8h | Water sprinkling on roads to control airborne dust                                 | N.A. | Observed during inspection.                             |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | N.A. | No threat to aesthetic beauty except land dergradation. |

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Compliance of Rule 45:

| Sl.No. | Item  | Propasals          | Actual work   | Remarks |
|--------|---|--------------------|---|---------|
| 9a     | Status of submission of Monthly and Annual returns  | N.A.               | Submitted.  |         |
| 9b     | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | N.A.               | Intimation for the appointment of Mining engineer has not given. Violation for the same has been pointed out. |         |
| 9c     | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | details furnished. | Found correct.  |         |
| 9d     | Scrutiny of Annual return on afforestation  | N.A.               | Plantation has done.  |         |
| 9e     | Scrutiny of Annual return on mineral reject generation (Grade and quantity)                   | N.A.               | Found in order.   |         |
| 9h     | Scrutiny of Annual return on fixed assets   | N.A.               | Satisfactory.   |         |
| 9k     | Scrutiny of Annual return on mining machineries   | N.A.               | JCB & Trucks/Tippers combination deployed.  |         |

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**Details of violations observed during current inspection and compliance position of violation pointed out**

| Violation observed |                         | Show couse position |                         |
|--------------------|-------------------------|---------------------|-------------------------|
| Rule NO.           | Issued on Compliance on | Rule NO.            | Issued on Compliance on |
|                    |                         |                     |                         |

**Date :**

**(MANISH GUPTA)**

Indian Bureau of Mines