

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/NGR-112/L.ST-13

**Mine code :** 38RAJ20013

- (i) Name of the Inspecting : **DJ03** ) **DILIP JAIN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sh Ganpat Ram, Mine Manger, Sh Chetan Agarwal, ME and  
Official with  
Designation
- (iv) Date of Inspection : 19-SEP-22
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **NAGAUUR (03/2016) BLOCK-3 (**
- (b) **Registration NO.** : **IBM/16679/2013**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : RAJASTHAN  
District : NAGAUUR  
Village : Deh  
Taluka : Jayal  
Post office : Deh  
Pin Code :  
FAX No. : 022 67692595  
E-mail : Jayakumar.krishnaswamy@nuv  
Phone : 022 67692595
- (f) Police Station : Surpaliya
- (g) First opening date : 13-DEC-21
- (h) Weekly day of rest : SUN
2. Address for : Address -House No. 18, Above Bank of Baroda  
correspondance Deedwana Road, Nagaur -341001 (Rajasthan)
3. (a) Lease Number :  
(b) Lease area :  
(c) Period of lease :  
(d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : EMAMI CEMENT LIMITED  
15TH FLOOR, ACROPOLIS MALL  
RAJDANGA MAIN ROAD EAST  
KOLKATA TOWNSHIP PASCHIM  
MEDINAPUR WEST BENGAL  
Phone:03366271307  
FAX :

Owner : Jaykumar Krishnaswamy  
NUVista Ltd., Equinox  
Business park Tower -3,  
East wing, 4th Floor, LBS  
Road, Kurla (West), Mumbai  
MUMBAI (SUBURBAN)  
MAHARASHTRA  
Phone:  
FAX :

Agent : Kanak Kumar Chhangani  
Signature Tower, DC-2, 09th  
Floor Behind Apex Bank, Lal  
Kothi, Tonk Road Jaipur -  
Rajasthan JAIPUR RAJASTHAN  
Phone:  
FAX :

Mining Engineer  
Name : Chetan Agarwal, Full Time  
Qualification : BE mining  
Appointment/ : 16-SEP-22  
Termination date

Geologist  
Name : Deependra Singh, Full Time  
Qualification : M.Sc. Geology  
Appointment/ : 16-SEP-22  
Termination date

Manager  
Name : Ganpat Ram  
Qualification : BE Mining  
Appointment/ : 25-APR-22  
Termination date

6. Date of approval of Mining :  
Plan/Scheme of Mining

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

## Exploration :

| Sl.No. | Item  | Proposals  | Actual work  | Remarks   |
|--------|---|--|--|---|
| 1a     | Backlog of previous year  | No proposal of exploration during the previous year 2020-21.   | Not applicable as no proposal.   | NIL.  |
| 1b     | Exploration over lease area for geological axis 1 or 2              | No proposal of exploration for reporting year (RY) 2021-22. However, 56 nos of exploratory BHs were proposed in the year 2019-20 to upgrade deposit to G1 level. | No exploration during the reporting year (RY) 2021-22. The exploration proposed during the year 2019-20 has been started since Aug 2022 to complete backlog. | NIL.  |
| 1c     | Exploration Agencies and Expenditure in lakh rupees during the year | Lessee through contractor.   | Exploration Work awarded to Ecomen.  | NIL.  |
| 1d     | Balance area to be explored to bring Geological axis in 1 or 2      | 267.6288 Ha. (G3 level)  | 267.6288 Ha. (G3 level)  | GoR obtained relaxation in exploration level from G3 to G2 from central government. |
| 1e     | Balance reserve as on 01/04/20                                      | A total reserve and resource of 86.77 and 40.18 million tons respectively as on 24/07/2019.  | A total reserve and resource of 86.77 and 40.18 million tons respectively as on 01/04/2022.  | Depletion of 20.695 tons.   |
| 1f     | General remarks of inspecting officers on geology, exploration etc  | No proposal of exploration during reporting year.  | The exploration proposed during the year 2019-20 has been started since Aug 2022 to complete backlog   | GoR obtained relaxation in exploration level from G3 to G2 from central government. |

## Development :

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

|    |   |  |   |  |
|----|---|--|---|--|
| 2a | Location of development w.r.t. lease area   | N3017851 to 3018067 & E392422 to 392823                  | N 3017932 to 3017942 & E391958 to 391964                        | Mining operation commenced in the year 2021-22 and deferred due to delay in commencement activities like infrastructure, land acquisition due to Covid-19, mobilization of manpower and stamp duty court case etc. |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15)                          | Topsoil removal through scraping and benches in mineral. | No topsoil and waste generation. Mineral removed from old pits. | NIL.   |
| 2c | Stripping ratio or ore to OB ratio  | 1 : 0.026 (m3/m3) (Stripping ratio with top soil)        | Nil as no waste and topsoil generation.                         | NIL.   |
| 2d | Quantity of topsoil generation in m3  | 14,190 m3  | No topsoil generation.  | NIL.   |
| 2e | Quantity of overburden generation in m3   | OB/waste generation - Nil                                | No OB/waste generation.   | NIL.   |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | Opencast method of development has been proposed.        | Development has not started during the RY.                      | Development method proposed is suitable for the type of deposit.   |

### Exploitation:

| Sl.No. | Item                                  | Propasals | Actual work | Remarks                                     |
|--------|---------------------------------------|-----------|-------------|---|
| 3a     | Number of pit proposed for production | One.      | One.        | There are number of old pits in lease area. |

|    |   |   |   |  |
|----|---|---|---|--|
| 3b | Quantity of ROM mineral production proposed   | 13,72,700 T   | 20.695 T  | Less production in account of delayed in commencement of mining operation due to delay in commencement activities like infrastructure, land acquisition due to Covid-19, mobilization of manpower and stamp duty court case etc. |
| 3c | Recovery of sailable/usable mineral from ROM production   | 5,49,080 T  | 20.695 T  | Less production in account of delayed in commencement of mining operation due to delay in commencement activities like infrastructure, land acquisition due to Covid-19, mobilization of manpower and stamp duty court case etc. |
| 3d | Quantity of mineral reject generation   | 8,23,620 tons   | NIL.  | No mineral reject encountered. during the RY.  |
| 3e | Grade of mineral rejects generation and threshold value declared.                               | No specific proposal.   | Not applicable as no Mineral reject generation.   | NIL.   |
| 3f | Quantity of sub grade mineral generation.   | No proposal.  | Not Applicable.   | NIL.   |
| 3g | Grade of sub grade mineral generation   | No proposal.  | Not applicable.   | NIL.   |
| 3h | Manual / Mechanised method adopted for segregating from ROM                                     | Mechanized. (crushing and screening in adjoining lease area of same lessee) | No segregation during RY due to very low production and non-commencement of infrastructure. | NIL.   |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | No proposal.  | Not applicable  | NIL.   |

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|----|--|---|---|--|
| 3j | Provision of drilling and blasting in mineral benches  | Bench Height - 7m<br>Hole Diameter -115 mm,<br>Burden- 4.5m<br>Spacing -6.5 m<br>Powder Factor - 7 T/Kg | No Drilling & Blasting during the RY.   | NIL.   |
| 3k | Provision of mining machineries in mineral benches   | Dumper and shovel combination.  | Dumper and shovel combination.  | NIL.   |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Bench height of 7.0 meter has been proposed.  | Benches are yet to commence.  | NIL.   |
| 3m | Total area covered under excavation/pits   | 13.65 hectare including old pits area.  | 5.05 hectare including old pits area.   | NIL.   |
| 3n | Ore to OB ratio for the pit/mine during the year.  | 1 : 0.026 (m <sup>3</sup> /m <sup>3</sup> ) (Stripping ratio with topsoil)                              | Nil as no waste generation.   | NIL.   |
| 3o | Total area put in use under different heads at the end of year                                       | An area of 24.049 hectare by the end of 2022-23.  | An area of 8.171 hectare by the end of 2021-22.   | NIL.   |
| 3p | Production of ROM mineral during the last five year period as applicable                             | 2017-18: NA<br>2018-19: Nil<br>2019-20: Nil<br>2020-21: 10,19,357 T<br>2021-22: 13,72,700 T             | 2017-18: NA<br>2018-19: Nil<br>2019-20: Nil<br>2020-21: Nil<br>2021-22: 20.695 T                    | Mining operation commenced in the year 2021-22 and deferred due to delay in commencement activities like infrastructure, land acquisition due to Covid-19, mobilization of manpower and stamp duty court case etc. |
| 3q | General remarks of inspecting officers on method of mining etc.                                      | Opencast method of Mining has been proposed.  | No major mining activity in lease area by lessee. However, various old pits observed in lease area. | Method of mining proposed is suitable for the type of deposit.   |

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Solid Waste Management - Dumping:

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| Sl.No. | Item   | Propasals  | Actual work  | Remarks   |
|--------|--|--|--|---|
| 4a     | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)   | Separate staking of Top soil & Reject. No proposal of waste/OB generation. | No Topsoil, reject and OB/Waste was generated.               | NIL.  |
| 4b     | Location of topsoil, OB and mineral reject dumps                   | Mineral reject staking between boundary pillar E and Z.                    | No mineral Reject generation during RY.                      | NIL.  |
| 4c     | Number of dumps within lease area and outside of lease area        | Waste Dump: NIL<br>Mineral reject: 01<br>Top Soil:01                       | Waste Dump: NIL<br>Mineral reject: NIL<br>Top Soil: NIL      | No top soil, waste and mineral reject generation.                     |
| 4d     | Location of dumps w.r.t. ultimate pit limit (Rule 16)              | Proposed within UPL.   | No waste, mineral reject and top soil generation.            | NIL.  |
| 4e     | Number of active and alive dumps.                                  | Mineral reject: 01<br>Top Soil: 01   | Mineral reject: NIL<br>Top Soil: NIL                         | NIL.  |
| 4f     | Number of dead dumps.  | No proposal.   | Not applicable.  | NIL.  |
| 4g     | Number of dumps established.                                       | No proposal.   | Not applicable.  | NIL.  |
| 4h     | Whether Retaining wall or garland drain all along dumps are there. | Retaining wall & Garland drain are proposed.                               | Not constructed as no topsoil and Mineral reject generation. | NIL.  |
| 4i     | Length of Retaining wall or garland drain all along dumps          | Retaining Wall- 90 m<br>Garland Drain - 325 m                              | Retaining Wall- Nil<br>Garland Drain - Nil                   | Not constructed as no topsoil and Mineral reject generation.          |
| 4j     | Number of settling ponds   | No proposal.   | Not applicable.  | NIL.  |
| 4k     | Specific comments of inspecting officer on waste dump management   | Separate staking of Top soil & Reject. No proposal of waste/OB generation. | No topsoil, waste and Mineral reject generation.             | No waste dumping and stacking of top soil & mineral reject during RY. |

#### 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. | No proposal of part or full extraction of mineral. | Not applicable as no proposal. | NIL.                             |
| 5b | Area under backfilling of mined out area  | No proposal.                                       | Not applicable.                | NIL.                             |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)     | Topsoil proposed to stack separately.              | No topsoil generation.         | NIL.                             |
| 5d | Total area fully reclaimed and rehabilitated  | No proposal.                                       | Not applicable.                | NIL.                             |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc.                    | No proposal of part or full extraction of mineral. | Not applicable as no proposal. | No area matured for backfilling. |

#### Progressive Mine Closure Plan:

| Sl.No. | Item   | Proposals  | Actual work  | Remarks   |
|--------|--|--|--|---|
| 6a     | Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2). | As per rule 26 of MCDR, 2017 holder of mining lease shall submit PMCP before 1st day of July every year. | PMCP report for the year 2021-22 has been submitted. | NIL.  |
| 6b     | Area available for rehabilitation (ha) .                                     | No proposal.   | Not applicable.                                      | NIL.  |
| 6c     | afforestation done (ha).   | 1.2 Ha.  | NIL.   | Violation of rule 11(1) of MCDR, 2017 issued.       |
| 6d     | No. of saplings planted during the year                                      | 1800 numbers.  | NIL.   | Violation of rule 11(1) of MCDR, 2017 issued.       |
| 6e     | Cumulative no .of plants   | Total of 5400 nos by the end of RY.  | NIL.   | Delay in land acquisition due to Covid-19 pandemic. |



|    |  |                       |                 |   |
|----|--|-----------------------|-----------------|---|
| 6f | Any other method of rehabilitation   | No proposal.          | Not applicable. | NIL.  |
| 6g | Cost incurred on watch and care during the year  | No proposal.          | Not applicable. | NIL.  |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D | No proposal.          | Not applicable. | NIL.  |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings          | No proposal.          | Not applicable. | NIL.  |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area      | No proposal.          | Not applicable. | NIL.  |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir  | No proposal.          | Not applicable. | NIL.  |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.                  | No proposal.          | Not applicable. | NIL.  |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation                                  | 1800 nos of saplings. | NIL.            | Violation of rule 11(1) of MCDR, 2017 issued. |
| 6n | Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)                      | 1.2 Hectare           | NIL.            | Violation of rule 11(1) of MCDR, 2017 issued. |

|    |   |   |                              |   |
|----|---|---|------------------------------|---|
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation             | Plantation.   | NIL.                         | Violation of rule 11(1) of MCDR, 2017 issued for deviation in plantation. |
| 6p | Compliance of environmental monitoring (core zone and buffer zone)                                | Monitoring as per CPCB/ SPCB Standard   | Being done.                  | NIL.  |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | An area of 1.2 hectare with 1800 nos of saplings was proposed for plantation. | No plantation during the RY. | Violation of rule 11(1) of MCDR, 2017 issued.                             |

#### Mineral Conservation:

| Sl.No. | Item   | Propasals     | Actual work     | Remarks                                   |
|--------|--|---------------|-----------------|---|
| 7a     | ROM Mineral dispatch or grade-wise sorting within lease area                           | ROM dispatch. | ROM dispatch.   | NIL.                                      |
| 7b     | Method of grade-wise mineral sorting i.e. manual or mechanical.                        | No proposal.  | Not applicable. | NIL.                                      |
| 7c     | Different grade of mineral sorted out at mines.  | No proposal.  | Not applicable. | NIL.                                      |
| 7d     | Any beneficiation process at mines   | No proposal.  | Not applicable. | NIL.                                      |
| 7e     | General remarks of inspecting officer on Mineral conservation and beneficiation issues | No proposal.  | Not applicable. | No issue related to Mineral conservation. |

#### Environment:

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

|    |   |   |   |  |
|----|---|---|---|--|
| 8a | Separate removal and utilization of topsoil (Rule 32)   | Topsoil proposed to stack separately.   | No topsoil generation.                          | NIL.   |
| 8b | Concurrent use or storage of topsoil  | Topsoil proposed to stack separately.   | No topsoil generation.                          | NIL.   |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33)                                      | Separate stacking of reject and topsoil.                                      | No Reject and topsoil generation.               | NIL.   |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use           | No proposal.  | Not applicable.                                 | NIL.   |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | No proposal.  | Not applicable.                                 | NIL.   |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41)                    | An area of 1.2 hectare with 1800 nos of saplings was proposed for plantation. | No plantation during the RY.                    | Violation of rule 11(1) of MCDR, 2017 issued.  |
| 8g | Survival rate   | No specific proposal.   | No plantation during the RY.                    | NIL.   |
| 8h | Water sprinkling on roads to control airborne dust  | Water sprinkling proposed to control air born dust.                           | No water sprinkling as limited mining activity. | NIL.   |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area                          | Total 1800 nos of saplings were proposed to plant in 1.20 hectare area.       | No plantation during the RY.                    | The general aesthetic beauty in and around lease area is satisfactory. Violation of rule 11(1) of MCDR, 2017 issued for deviation in plantation. . |

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## Compliance of Rule 45:

| Sl.No. | Item  | Propasals  | Actual work   | Remarks                 |
|--------|---|--|---|-------------------------|
| 9a     | Status of submission of Monthly and Annual returns  | As per rule 45 of MCDR, 2017 monthly and annual returns to be submitted.                     | Annual and Monthly returns for RY have been submitted.                        | NIL.                    |
| 9b     | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | Details of Manager and Mining Engineer furnished and details of Geologist was not furnished. | Manager, Mining Engineer and Geologist appointed.                             | Scrutiny of AR 2021-22. |
| 9c     | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Pits -5.05 Ha. and Infrastructure - 3.121 Ha.  | Pits -5.05 Ha. and Infrastructure- 3.121 Ha.                                  | NIL.                    |
| 9d     | Scrutiny of Annual return on afforestation  | NIL.   | No plantation during RY.  | NIL.                    |
| 9e     | Scrutiny of Annual return on mineral reject generation (Grade and quantity)                   | NIL.   | No mineral reject generation during RY.                                       | NIL.                    |
| 9f     | Scrutiny of Annual return on ROM stock and/or graded ore                                      | ROM or graded ore stock: NIL.  | ROM produced during the year has been dispatched. No ROM or Graded Ore stock. | NIL.                    |
| 9g     | Scrutiny of Annual return on sale value, Ex. Mine price and production cost                   | Ex Mine Price and cost of production: Rs 490/tons.   | Appears in order.   | NIL.                    |
| 9h     | Scrutiny of Annual return on fixed assets   | NIL.   | No fixed asset.   | NIL.                    |
| 9k     | Scrutiny of Annual return on mining machineries   | Dumper.  | Found in order.   | NIL.                    |

**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 |
| MCDR17             | Rule 11(1) | 21-OCT-22 | 20-DEC-22     |                     |           |               |

**Date :**

**(DILIP JAIN)**

Indian Bureau of Mines