

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

**MCDR INSPECTION REPORT**

**Ajmer regional office**

**Mine file No :** RAJ/NGR-112/L.ST-12

**Mine code :** 38RAJ20012

- (i) Name of the Inspecting : **DJ03** ) **DILIP JAIN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sri Nitin Purohit, Mine Manager  
Official with  
Designation
- (iv) Date of Inspection : 06-FEB-24
- (v) Prev.inspection date : 20-SEP-22

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **NAGAU**R (01/2016) **BLOCK-3**(
- (b) **Registration NO.** : **IBM/16679/2013**
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : RAJASTHAN
- District : NAGAUR
- 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 correspondance** : - House No. 18, above Bank of Baroda,  
Deedwana Road, Nagaur  
PIN: 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 : Jai Singh  
 Signature Tower, DC-2, 09th  
 floor Behind Apex Bank, Lal  
 Kothi Tonk Road, Jaipur-  
 302015 JAIPUR RAJASTHAN  
 Phone: 9321327442  
 FAX :

Mining Engineer  
 Name : Ganpat Ram, Full Time  
 Qualification : BE mining  
 Appointment/ : 16-SEP-22 24-DEC-24  
 Termination date

Geologist  
 Name : Sh Banti Kumar, Full Time  
 Qualification : M.Tech Applied Geology  
 Appointment/ : 16-SEP-22  
 Termination date

Manager  
 Name : Niten Purohit  
 Qualification : BE Mining  
 Appointment/ : 25-DEC-23  
 Termination date

Manager  
 Name : Ganpat Ram  
 Qualification : BE Mining  
 Appointment/ : 25-APR-22 24-DEC-23  
 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 previous year 2021-22.	No exploration during the previous year 2021-22.	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during reporting year (RY) 2022-23.	A total of 49 BHs were drilled with 1594.00 mts of drilling.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee through contractor.	Exploration Work awarded to Ecomen. Expenditure: Rs. 3710282/-	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	247.8711 Hectare	Exploration work completed area under G1/G2 yet to assess.	The analysis results is awaited and area under G1/G2 will be assessed after receiving analysis report.
1e	Balance reserve as on 01/04/20	The position of reserve and resource as per approved MMP dated 24/07/2019 was 130.44 and 38.40 million Tons respectively.	The position of reserve and resource as on 01/04/2023 was 130.42 and 38.40 million Tons respectively.	Nil
1f	General remarks of inspecting officers on geology, exploration etc			Geologically area belongs to the Marwar super group of rocks. Exploration by 49 number of BHs with 1594 mts of drilling has been carried out during the year. The analysis results were awaited and area under G1/G2 will be assessed after receiving analysis report.

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N3016905 to 3017162 and E391282 to 391698.	N3017720 to 3017835 and E391915 to 392050.	Violation rule 11)1) of MCDR, 2017 was issued for the deviation in the location of the development.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate removal of top soil and Mineral. No proposal of waste generation.	No top soil, MR and waste generation during RY. Benches in minimized zone only.	Nil
2c	Stripping ratio or ore to OB ratio	1 : 0.03 CuM/CuM (Stripping ratio with top soil)	1:0.0 CuM/CuM (No top soil and waste generation during RY)	Nil
2d	Quantity of topsoil generation in m3	20,641 CuM	No top soil generation during RY 2022-23.	Nil
2e	Quantity of overburden generation in m3	No proposal of Waste/OB generation.	No waste/OB generation during RY.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mineral limestone occurs near to the surface. Hence, the method of the development proposed is suitable to the type of the deposit. However, deviation in location of development has been observed and violation of rule 11(1) of MCDR, 2017 issue.

## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One.	One.	Nil
3b	Quantity of ROM mineral production proposed	17,000,25 Tons.	14748.36 Tons.	Low production in account of delay in land acquisition, stamp duty court case etc.

3c	Recovery of sailable/usable mineral from ROM production	17,000,25 Tons.	14748.36 Tons.	Low production in account of delay in land acquisition, stamp duty court case etc.
3d	Quantity of mineral reject generation	10,20,015 T	No mineral reject generation during RY.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposal.	Not applicable as no Mineral Reject generation.	Nil
3f	Quantity of sub grade mineral generation.	No proposal of Sub-grade generation	No sub-grade generation during RY.	Nil
3g	Grade of sub grade mineral generation	No proposal.	Not applicable as no sub-grade generation.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized. (crushing and screening).	No segregation during RY due non-commencement of infrastructure.	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal other than crushing and screening.	Not applicable.	Nil
3j	Provision of drilling and blasting in mineral benches	Bench Height - 10 m Hole Diameter -115 mm Burden- 4.5m Spacing -6.0 m	Bench Height -10 m Hole Diameter -115 mm Burden- 4.5m Spacing -6.0 m	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 10.0 meter has been proposed.	Height of the benches have been observed as per proposal.	Nil
3m	Total area covered under excavation/pits	15.544 hectare.	2.784 hectare.	Less area as mining operation starts in the year 2021-22.

3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.03 CuM/CuM (Stripping ratio with top soil)	1:0.0 CuM/CuM (No top soil and waste generation during RY)	Nil
3o	Total area put in use under different heads at the end of year	30.446 hectare.	5.433 at the end RY 2022-23.	Less area as mining operation starts in the year 2021-22 and no generation of MR etc.
3p	Production of ROM mineral during the last five year period as applicable	2018-19: Nil 2019-20: Nil 2020-21: 10,25,025 T 2021-22: 13,75,025 T 2022-23: 17,00,025 T	2018-19 Nil 2019-20: Nil 2020-21: Nil 2021-22: 20.10 T 2022 -23:14748.360T	Mining operation commenced in the year 2021-22 and deferred due to delay in commencement activities like infrastructure, land acquisition, 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.	Method of mining has been adopted as per proposal.	Method of mining proposed is best suitable for the type of deposit. Mining operation commenced in the year 2021-22 and deferred due to delay in commencement activities like infrastructure, land acquisition, mobilization of manpower and stamp duty court case etc.

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate stacking of Top soil & Mineral Reject. No proposal waste generation.	No Top soil, Mineral reject and OB/Waste generation during RY.	Nil

4b	Location of topsoil, OB and mineral reject dumps	Mineral Reject: 3016800N and 391730 E Top Soil - 3016700N and 391700 E	No stacking of MR and top soil as no topsoil or MR generation during RY 2022-23.	Nil
4c	Number of dumps within lease area and outside of lease area	Waste Dump: NIL Mineral reject: 01 Top Soil:01	Waste Dump: Nil Mineral reject: Nil Top Soil: Nil	No top soil, MR and waste generation during RY 2022-23.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed within UPL.	Not applicable as no top soil, MR and waste generation during RY 2022-23.	Nil
4e	Number of active and alive dumps.	Mineral reject: 01 Top Soil:01	Mineral reject: Nil Top Soil: Nil	No top soil, MR and waste generation during RY 2022-23.
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 proposed.	No construction.	Violation of rule 11(1) of MCDR, 2017 issued.
4i	Length of Retaining wall or garland drain all along dumps	Retaining Wall- 630 meters.	No construction.	Violation of rule 11(1) of MCDR, 2017 issued.
4j	Number of settling ponds	No proposal.	Not applicable.	Nil
4k	Specific comments of inspecting officer on waste dump management			No issue related to stacking of MR and waste dumping as no top soil, MR and waste generation.

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Solid Waste Management - Backfilling:

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Sl.No.	Item	Propasals	Actual work	Remarks
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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.	Not applicable.	No area matured for backfilling.

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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).	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 2022-23 has been submitted.	Nil
6b	Area available for rehabilitation (ha) .	No proposal.	Not applicable.	Nil
6c	afforestation done (ha).	1.00 Hectare.	0.50 Hectare.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in planation area.
6d	No. of saplings planted during the year	1000 nos.	50 nos. (wide spacing plantation).	Violation of rule 11(1) of MCDR, 2017 issued for deviation in planation area and numbers.

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6e	Cumulative no .of plants	No proposal.	50 nos.	Nil
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 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	1.0 Ha	0.50 Ha	Violation of rule 11(1) of MCDR, 2017 issued for deviation in planation area.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1000 no.	50 Nos (wide space plantation).	Violation of rule 11(1) of MCDR, 2017 issued for deviation in planation area and numbers.

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation.	Plantation.	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring as per CPCB/ SPCB Standard	Environmental Monitoring is being complied as per CPCB/ SPCB Standard -	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The PMCP compliance reported by lessee was not satisfactory and Violation of rule 11(1) of MCDR, 2017 issued for deviation in afforestation.

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#### 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 during RY 2022-23.

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#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Topsoil proposed to stack separately and reuse for plantation.	No topsoil generation.	Nil
8b	Concurrent use or storage of topsoil	Topsoil proposed to stack separately and reuse for plantation.	Not applicable as no topsoil generation.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate stacking of mineral reject.	No Mineral Reject generation during RY 2022-23.	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 1.0 hectare with 1000 nos of saplings was proposed for plantation.	An area of 0.50 hectare with 50 nos of saplings was planted.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in plantation area and numbers.
8g	Survival rate	No specific proposal.	70% as per AR 2022-23.	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling to control air born dust.	Water sprinkling observed through water tanker.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The general aesthetic beauty in and around lease area is satisfactory as full scale mining operations are yet to start.

## 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, Geologist and Mining engineer are furnished.	Manager, Mining Engineer and Geologist appointed.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under Pits - 2.843 Ha. Infrastructure - 2.59 Ha.	The information on land use appears in order.	Nil
9d	Scrutiny of Annual return on afforestation	50 number of plants.	Found in order.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject: Nil	No mineral reject generation during RY.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Rom stock: Nil and graded ore stocks: 4507.64 tons.	Found in order.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine Price - Rs 907.30/Ton and cost of production: 825.97	The details furnished appear to be in order. Mineral sold to M/s Nirma limited and M/s NUVOCO VISTAS Corporation Ltd.	Nil
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets: Rs. 360447423/-	Appears to be in order.	Nil
9k	Scrutiny of Annual return on mining machineries	Dumper, Shovel, Water tanker, Blast hole drill, air compressor etc.	The information of mining machineries furnished seems to be 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)	05-MAR-24			

**Date :**

**(DILIP JAIN)**

Indian Bureau of Mines