

**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 Niten Purohit, Mine Manger and Sh Deependra Singh
Official with
Designation
- (iv) Date of Inspection : 05-FEB-24
- (v) Prev.inspection date : 19-SEP-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NAGAU (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 : NAGAU
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 : 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 : Dinesh Kumar Mahawar, Full Time
 Qualification : BE Mining
 Appointment/ : 01-FEB-23
 Termination date

Mining Engineer
 Name : Chetan Agarwal, Full Time
 Qualification : BE mining
 Appointment/ : 16-SEP-22 31-JAN-23
 Termination date

Geologist
 Name : Deependra Singh, Full Time
 Qualification : M.Sc. 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 25-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 60 BHs were drilled with 1859.00 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. 4754076/-	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	267.6288 Hectare.	Exploration work completed area under G1/G2 yet to assess.	Nil
1e	Balance reserve as on 01/04/20	The position of reserve and resource as on 01/10/2022 was 86.77 and 40.18 million Tons respectively.	The position of reserve and resource as on 01/04/2023 was 86.75 and 40.18 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 60 number of BHs with 1859 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	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	N3017940 to 3017860 and E391900 to 392060	N3017851 to 3018067 and E392335 to 392823	Violation of rule 11(1) of MCDR, 2017 issued for deviation in location of development during RY.
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 : 0.005 CuM/CuM (Stripping ratio with top soil)	1:0.0 CuM/CuM (Top soil and waste has not generated during RY).	Nil
2d	Quantity of topsoil generation in m3	14,190 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	1699022 T	21071.410T	Low production in account of delay in land acquisition, stamp duty court case etc.

3c	Recovery of sailable/usable mineral from ROM production	679609 T	21071.410T	Low production in account of delay in land acquisition, stamp duty court case etc.
3d	Quantity of mineral reject generation	1019413 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.	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 of same company)	No segregation during RY due to 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
3j	Provision of drilling and blasting in mineral benches	Bench Height - 7m Hole Diameter -115 mm Burden- 4.5m Spacing -6.5 m	As per proposal.	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	The height of the benches has been proposed to 7.0 mts.	The height of the benches has been maintained as per proposal.	Nil
3m	Total area covered under excavation/pits	15.318 hectare including old pits area.	5.11 hectare including old pits area.	Nil

3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.005 CuM/CuM (Stripping rato with top soil)	1:0.0 CuM/CuM (Top soil and waste has not generated during RY).	Nil
3o	Total area put in use under different heads at the end of year	24.049 hectare	8.23 hectare.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2017-18: Nil 2019-20: Nil 2020-21: 10,19,357 T 2021-22: 13,72,700 T 2022-23: 16,99,022 T	2018-19 Nil 2019-20: Nil 2020-21: Nil 2021-22: 20.695 T 2022-23: 21071.410 T	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 is being practiced 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 Topsoil, reject and OB/Waste generation during RY.	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 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.	No dumping/staking as top soil, MR and waste has not generated 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 are all along dumps are there.	Retaining wall & Garland drain are 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 m Garland Drain - 375 m	Retaining Wall- Nil Garland Drain - Nil	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 of waste dumping/staking of the top soil and MR as same has not generated 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.	Not applicable.	No area matured for backfilling.

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).	1.20 Hectare.	0.758 Hectare.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in area of afforestation.
6d	No. of saplings planted during the year	1800 no.	80 no.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in area of afforestation.
6e	Cumulative no .of plants	No proposal.	Not applicable.	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 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 no.	80 no.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in area of afforestation.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.20 Hectare.	0.758 Hectare.	Violation of rule 11(1) of MCDR, 2017 issued for deviation in area of afforestation.
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)	The PMCP compliance reported by lessee was not satisfactory and Violation of rule 11(1) of MCDR, 2017 issued for deviation in afforestation.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Nil

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.	No issue observed related to Mineral conservation.
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.	Nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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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	No proposal.	Not applicable.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate stacking of reject and topsoil.	No Mineral 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.	An area of 0.758 hectare with 80 nos of saplings was planted.	Violation of rule 11(1) of MCDR, 2017 issued.
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
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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 are appointed.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Information of land use is furnished in AR 2022-23.	Under Pits -5.109 Ha. Infrastructure- 3.121 Ha. The information furnished appears in order.	Nil
9d	Scrutiny of Annual return on afforestation	Information of tree planted has been given.	80 number of plants have been planted in wide spacing.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	MR generation: 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: 12012.07 tons.	Found in order.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Information of Ex-mine price, cost of production and sale value is furnished in the AR 2022-23.	Ex Mine Price - Rs 907.30/Ton and cost of production: 864.07. 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 is furnished in the AR.	Value of fixed assets: Rs. 360447423/- and appears to be in order.	Nil
9k	Scrutiny of Annual return on mining machineries	Information on mining machineries is furnished in the AR 2022-23.	Dumper, Shovel, Water tanker, Blast hole drill, air compressor etc. is furnished in the AR 2022-23.	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)	01-MAR-24			

Date :

(DILIP JAIN)

Indian Bureau of Mines