

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

**MCDR INSPECTION REPORT**

**Gandhinagar regional office**

**Mine file No :** RAJ/CHT/LST-12

**Mine code :** 38RAJ09011

- (i) Name of the Inspecting : **DJ03** ) **DILIP JAIN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sri Jivabhai Sagar, Mine Manager, Krishan Kumar Sharm  
Official with  
Designation
- (iv) Date of Inspection : 22-OCT-24
- (v) Prev.inspection date : 23-JUL-19

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **ARNIYA JOSHI**
- (b) **Registration NO.** : **IBM/378/20111**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : CHITTORGARH
- Village : ARNIYA JOSHI
- Taluka : NIMBAHERA
- Post office : ARNIYA JOSHI
- Pin Code : 312617
- FAX No. : 022-66306510 (F)
- E-mail : somnath.banerjee@nuvoco.in
- Phone : 01477-225155
- (f) Police Station : Nimbaheda
- (g) First opening date : 14-MAY-10
- (h) Weekly day of rest : SUN
2. Address for : VILLAGE ARNIYA JOSHI  
correspondance : TEHSIL NIMBAHERA  
DIST. CHITTORGARH
3. (a) Lease Number : RAJ3940
- (b) Lease area : 1476.43
- (c) Period of lease : 50
- (d) Date of Expiry : 13-MAY-60
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : Novaco Vistas Corp Ltd.  
 Equinox Business Park,  
 Tower 3, East Wing, 4 th  
 Floor, Off Bandra Kurla  
 Road, LBS Marg, Kurla  
 Mumbai MUMBAI (SUBURBAN)  
 MAHARASHTRA  
 Phone:02267692500  
 FAX :02266306510

Owner : Jayakumar Krshnaswamy  
 Equinox Business Park,  
 Tower3, East Wing, 4th  
 Floor, Off Bandra Kurla  
 Road, Kurla (west), Mumbai  
 MUMBAI (SUBURBAN)  
 MAHARASHTRA  
 Phone: 02267692500  
 FAX : 02266306510

Agent : Mr. Jeetendra Kumar Jain  
 Nuvoco Vistas Corp. Ltd,  
 Village - Bhawaliya Tehsil  
 - Nimbahera, CHITTORGARH  
 RAJASTHAN  
 Phone: 7368801402  
 FAX :

## Mining Engineer

Name : Sri Mahendra Kumar Vyas,Full Time  
 Qualification : Be Mining  
 Appointment/ :  
 Termination date

## Geologist

Name : Sri Krishan Kumar Sharma,Full Time  
 Qualification : M.Sc. Geology  
 Appointment/ :  
 Termination date

## Manager

Name : Mr. Jivabhai Sagar  
 Qualification : BE Mining  
 Appointment/ :  
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	24-APR-15
Plan/Scheme of Mining	:	MP modif under 17(3) MCR 2016	15-JAN-18

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During the previous year 2022-23 a total of 9 BHs with 450mts of drilling was proposed.	During previous year 2022-23, a total of 9 BHs with 450 meters of drilling was carried out.	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposal of exploration during RY 2023-24.	No exploration during RY 2023-24.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable as no proposal of exploration.	Not applicable.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not applicable as no proposal.	Not applicable.	Nil
1e	Balance reserve as on 01/04/20	As per approved document dated 18/12/2023, the position of reserve and resource as on 01/04/2023 was 77.55 and 210.869 Million tons respectively.	The position of reserve and resource as on 01/04/2024 was 77.158 and 210.869 Million tons respectively.	Depletion of around 0.392 million tons.
1f	General remarks of inspecting officers on geology, exploration etc			Most of the limestone of the area is above the threshold value with high silica content, at present which cannot be used in the cement manufacturing, hence same has been kept under resource category.

## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development was proposed in existing pit 1.	Development was carried out in existing pit 1.	Slight deviation in development has been observed and violation of rule 11(1) of MCDR, 2017 issued vide letter dated 25/11/2024.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There was no proposal of separate benches in top soil and overburden. 3benches have been proposed in mineral limestone.	3 benches observed in the mineral.	Top soil removed thorough scraping. The waste is found in the form of intercalation.
2c	Stripping ratio or ore to OB ratio	1:0038 CuM/T	1:0035 CuM/T	Nil
2d	Quantity of topsoil generation in m3	2023-24 : 250 CuM	2023-24 : 255.2 CuM	Nil
2e	Quantity of overburden generation in m3	1700 m3	1386.77 m3	Waste generated used for road maintenance & burm around the pit.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Slight deviation in development has been observed and violation of rule 11(1) of MCDR, 2017 issued vide letter date 25/11/2024.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production			Nil
3b	Quantity of ROM mineral production proposed			Nil
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	Entire ROM is usable in cement manufacturing.

3d	Quantity of mineral reject generation	No proposals of mineral reject generation.	Mineral rejects were not generated during RY.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable as no proposal of MR generation.	Not applicable.	Nil
3f	Quantity of sub grade mineral generation.	No proposals of sub-grade generation.	Sub-grade was not generated during RY.	Nil
3g	Grade of sub grade mineral generation	Not applicable as no proposal of SG generation.	Not applicable.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal of segregation of ROM within lease area.	Not applicable.	Entire ROM is dispatched to crusher located at cement plant.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation study proposed during RY.	No beneficiation study carried out during RY.	Nil
3j	Provision of drilling and blasting in mineral benches	Blast hole drilling was proposed with Hydraulic Down Hole Drilling with 115 mm dia hole. For blasting slurry cap sensitive explosives, ANFO and SME to be used.	Drilling and blasting was done as per the proposal.	Nil
3k	Provision of mining machineries in mineral benches	HEMM with combination of excavator and dumper.	HEMM with combination of excavator and dumper.	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height- 10 Mts	Height of benches has been observed 10 meters.	Nil
3m	Total area covered under excavation/pits	12.67 ha at the end of the year 2023-24.	12.48 ha at the end of the year 2023-24.	Nil

3n	Ore to OB ratio for the pit/mine during the year.	1:0038 CuM/T	1:0035 CuM/T	Nil
3o	Total area put in use under different heads at the end of year	An area of 16.92 ha at the end of RY 2023-24.	An area of 16.73 ha at the end of RY 2023-24.	Nil
3p	Production of ROM mineral during the last five year period as applicable	2019-20: 200000 2020-21: 200000 2021-22: 200000 2022-23: 200000 2023-24: 451025	2019-20: 142574.59 2020-21: 37071.98 2021-22: 72683.290 2022-23: 124326.670 2023-24: 392643.26	All figures in metric tons.
3q	General remarks of inspecting officers on method of mining etc.			Opencast method of mining is in practice. The method of mining is best suitable method to the type of deposit. No issue related to the method of mining.

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate removal of top soil and waste (IB). No proposal MR generation.	Top soil removed thorough scraping. The waste was found in the form of intercalation. No MR generation during RY.	Nil
4b	Location of topsoil, OB and mineral reject dumps	No proposal of waste and top soil dumping. No proposal of MR generation.	Top soil generated was used for plantation simultaneously and waste (IB) was used for road maintenance & burn around the pit.	Nil
4c	Number of dumps within lease area and outside of lease area	No proposal of waste dumping.	Generated waste used for road maintenance & burn around the pit.	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal.	Not applicable.	Nil
4e	Number of active and alive dumps.	No proposal.	Not applicable.	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.	No proposal.	Not applicable.	Nil
4i	Length of Retaining wall or garland drain all along dumps	No proposal.	Not applicable.	Nil
4j	Number of settling ponds	No proposal.	Not applicable.	Nil
4k	Specific comments of inspecting officer on waste dump management			The waste was proposed to generate in the form of intercalation (interburden). Generated waste used for road maintenance & burm around the pit. No issues related to waste management.

#### 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.	No area matured for backfilling.	Nil
5b	Area under backfilling of mined out area	No proposal.	No area matured for backfilling.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent use of topsoil and 250 CuM of top soil was proposed to generate during RY.	A total of 255.2 CuM of top soil was generated and concurrently utilized for plantation.	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 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 report before 1st day of July every year.	PMCP report for the year 2023-24 was submitted.	Nil
6b	Area available for rehabilitation (ha) .	No proposal.	Not applicable.	Nil
6c	afforestation done (ha).	1.05 ha(gap filling)	3.09 ha(gap filling)	Nil
6d	No. of saplings planted during the year	500 nos of saplings as a gap filling plantation.	3070 nos of saplings as a gap filling within ML	Nil
6e	Cumulative no .of plants	Not Specified.	29873 within lease area at the end of the year 2023-24.	Nil
6f	Any other method of rehabilitation	No proposal.	Not applicable.	Nil
6g	Cost incurred on watch and care during the year	Not Specified.	Rs. 13.65 lac	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	500 nos of saplings as a gap filling plantation.	3070 nos of saplings as a gap filling within ML.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	1.05 ha (gap filling)	3.09 ha (gap filling)	Nil
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)	Regularly monitoring as per the condition of mining plan as well as Environment Clearance and SPCB.	Monitoring is being carried out and on sample check the parameters are found within prescribed limit.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No issue related to PMCP compliance.

---

## Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch. No proposal for grade-wise sorting.	ROM mineral dispatched. No grade wise sorting.	Entire ROM dispatched to crusher located at cement plant.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal for grade wise sorting.	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 issue related to mineral conservation.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	250 CuM	255.2 CuM	Top soil was concurrently utilized for plantation.
8b	Concurrent use or storage of topsoil	Concurrent use of topsoil.	Top soil was concurrently utilized for plantation.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal of waste dumping and top soil staking.	Waste (IB) was used for road maintenance & top soil generated was used for plantation.	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)	1.05 ha with 500 number of sapling in gap filling.	3.09 ha with 3070 nos of saplings as a gap filling within ML area.	Nil
8g	Survival rate	75%	75%	Nil
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on haul roads through water tankers.	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 is satisfactory in and around mine area.

#### 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	Mine Manager - Jivabhai Sagar Mining Engineer- Mahendra Vyas Geologist- Krishan Kumar Sharma	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.	Open cast working: 12.480 ha, Waste Dump: Nil, Infrastructure (Office, road, Magazine etc): 4.25 ha. And plantation: 15.82 ha	The information of land use furnished appears in order.	Nil
9d	Scrutiny of Annual return on afforestation	Within Lease - 3070 nos. and outside lease area: 1081 nos	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 and grade wise closing stock: NIL	No stock all excavated mineral consumed in captive cement plant.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production and ex-mine price: 284.05 per ton.	The limestone produced used for captive consumption. The information of cost of production and Ex-mine price is appears in order.	Nil
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset: Rs. 360670182	Seems in order.	Nil
9k	Scrutiny of Annual return on mining machineries	Back Hoe, Tipper, Rock Drill, Dozer, Water Tanker and explosive Van etc.	Appears in order.	Violation of rule 45(7) has been issued vide letter dated 25/11/2024 for deficiency in reporting of cost of production.

---

**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)	25-NOV-24				
MCDR17 Rule 45(7)(a)	25-NOV-24				

**Date :**

**(DILIP JAIN)**

Indian Bureau of Mines