

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT 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 : Sh. Somnath Banerjee, Mine Manager
Official with
Designation
- (iv) Date of Inspection : 11-DEC-19
- (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 : Raghvendraro Jahagirdar
Nuvaco Vistas Corp Ltd.
Village Bhawaliya, Tehsil-
-Nimbahera, Distt-
Chittorgarh CHITTORGARH
RAJASTHAN
Phone: 8003090425
FAX :

Mining Engineer

Name : Sri Mahendra Kumar Vyas,Full Time
Qualification : BE Mining
Appointment/ : 21-APR-18
Termination date

Geologist

Name : Sri Satyanjay Kumar Chaturvedi,Full Tim
Qualification : M. Tech in Geology
Appointment/ : 08-JUL-19
Termination date

Manager

Name : Somnath Banerjee
Qualification : B.E.(MIN)
Appointment/ : 10-AUG-15
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 i.e. 2017-18 a total of 25 BH have been proposed with 1250 mts of drilling.	During the previous year i.e. 2017-18 a total of 25 BH have been drilled with 1200 mts of drilling.	No backlog.
1b	Exploration over lease area for geological axis 1 or 2	25 Boreholes with 1250 mts were proposed during the year 2018-19.	Total 25 Boreholes drilled with 1138 mts of drilling during the year 2018-19.	Violation for less drilling has been issued during previous inspection vide letter dated 04/10/2019.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal of exploration agency and expenditure.	Agency: DSS IFRA Kohapur and expenditure was Rs. 3451736/-	NIL.
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per approved document dated 15/01/2018, an area of 119.87 Ha was in G1 level of exploration and no area was under G2, G3 and G4 level of exploration.	As per approved document dated 15/01/2018, an area of 119.87 Ha was in G1 level of exploration and no area was under G2, G3 and G4 level of exploration.	NIL.
1e	Balance reserve as on 01/04/20	As per approved document dated 15/01/2018, the position of reserve and resource was 68.18 million tonnes and 24.95 million tonnes respectively.	The position of reserve and resources as on 01/04/2019 was 67.00 million tonnes and 24.95 million tonnes respectively.	NIL.

1f	General remarks of inspecting officers on geology, exploration etc	25 Boreholes with 1250 mts were proposed during the year 2018-19.	Total 25 Boreholes drilled with 1138 mts of drilling during the year 2018-19.	NIL.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development/ production has been proposed between E469474-469643 N2730845-2731274	Development/production has been carried out as per proposal.	NIL.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of benches in OB and Top soil. A total of 3 benches in Limestone has been proposed.	No benches in OB and Top soil as limestone occurs surficial. Three benches has been developed in Limestone.	NIL.
2c	Stripping ratio or ore to OB ratio	1:0 tonnes/tonnes.	1:0 tonnes/tonnes.	No waste generation during the yhear.
2d	Quantity of topsoil generation in m3	No proposal of top soil generation.	Not applicable.	NIL.
2e	Quantity of overburden generation in m3	Opencast method of development has been proposed.	Opencast method of development has been observed.	NIL.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			

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	200000 Tons (2018-19).	160720.30 Tons (2018-19).	Less production due to less demand.
3c	Recovery of sailable/usable mineral from ROM production	200000 Tons (2018-19).	160720.30 Tons (2018-19).	Less production due to less demand.
3d	Quantity of mineral reject generation	No Proposal of Mineral Reject generation.	Mineral reject has not been generated during the year.	NIL.
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable as no proposal of mineral reject generation.	Not applicable as no mineral reject has been generated.	NIL.
3f	Quantity of sub grade mineral generation.	No Proposal of Sub-grade generation.	Not applicable as no Sub-grade has been generated.	NIL.
3g	Grade of sub grade mineral generation	Not applicable as no proposal of Sub-grade generation.	Not applicable as no Sub-grade has been generated.	NIL.
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal of grade wise sorting.	Entire ROM has been feed to the cement plant located outside of the lease area.	NIL.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation study has been proposed.	Not applicable.	NIL.
3j	Provision of drilling and blasting in mineral benches	The drilling of blast holes is being done by down the hole drill machines of 115 mm. diameter operated by compressed air. For blasting slurry cap sensitive explosives, ANFO and SME to be used.	Drilling and blasting are done as per the proposal.	NIL.

3k	Provision of mining machineries in mineral benches	Drill machine 115 mm. dia, Air Compressor 450 cfm, Excavator 2.4 cum capacity, Excavator 0.9 cum capacity, Dumpers, Dozer, Rock Breaker etc.	Drill machine 115 mm. dia, Air Compressor 450 cfm, Excavator 2.4 cum capacity, Excavator 0.9 cum capacity, Dumpers, Dozer, Rock Breaker etc.	NIL.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of the benches have been proposed to 10 mts.	Benches have been maintained as per proposal.	NIL.
3m	Total area covered under excavation/pits	As per approved document dated 15/01/2018, area put under excavation at the end of the plan period (2019-20) is 10.55 Ha.	As on 01/04/2019 an area of 11.11 Ha. has been utilized under excavation.	Violation of MCDR issued.
3n	Ore to OB ratio for the pit/mine during the year.	1:0 tonnes/tonnes.	1:0 tonnes/tonnes.	No waste generation during the year.
3o	Total area put in use under different heads at the end of year	As per approved document dated 15/01/2018 total area proposed to put under different heads at the end of the plan period (2019-20) was 32.55 Ha.	As on 01/04/2019, total area put under different heads at the end of the year was 32.66 Ha.	NIL.
3p	Production of ROM mineral during the last five year period as applicable	2014-15= 2.59 2015-16= 1.04 2016-17= 0.35 2017-18= 0.35 2018-19= 0.20	2014-15= 1.99 2015-16=0.60 2016-17=0.14 2017-18=0.04 2018-19=0.16	All figures in million tonnes.
3q	General remarks of inspecting officers on method of mining etc.	Opencast method of mining has been proposed.	Opencast method of mining is in observed.	NIL.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)			
4b	Location of topsoil, OB and mineral reject dumps			
4c	Number of dumps within lease area and outside of lease area			
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)			
4e	Number of active and alive dumps.			
4f	Number of dead dumps.			
4g	Number of dumps established.			
4h	Whether Retaining wall or garland drain all along dumps are there.			
4i	Length of Retaining wall or garland drain all along dumps			
4j	Number of settling ponds			
4k	Specific comments of inspecting officer on waste dump 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 of backfilling during the year as no pit area is fully exhausted.	Not applicable as no proposal.	NIL.

5b	Area under backfilling of mined out area	No proposal of backfilling during the year.	Not applicable as no proposal.	NIL.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No specific proposal of top soil generation and proposed to use simultaneously for plantation purpose.	Top soil generated during the year has been utilized for plantation purpose.	NIL.
5d	Total area fully reclaimed and rehabilitated	No proposal of full reclamation and rehabilitation	Not applicable as no proposal.	NIL.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal of backfilling during the year as no pit area is fully exhausted.	Backfilling has not been observed.	No pit area is 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(2) of MCDR, 2017, PMCP report to be submitted for previous year by 1st July.	Annual PMCP report for reporting year i.e. 2018-19 has been submitted.	NIL.
6b	Area available for rehabilitation (ha) .	An area of 1.0 Ha has been proposed for afforestation/ rehabilitation within lease area.	Afforestation/Plantation has been carried out over an area of 1.0 Ha .	NIL.
6c	afforestation done (ha).	An area of 1.0 Ha has been proposed during the year 2018-19.	Afforestation/Plantation has been carried out over an area of 1.0 Ha .	NIL.

6d	No. of saplings planted during the year	It was plan to plant 2000 numbers of saplings during 2018-19 within lease area.	During the year 3015 number of saplings have been planted within lease area.	NIL.
6e	Cumulative no .of plants	As per approved document dated 15/01/2018, cumulatively 6000 number of plants has been proposed to plant during 2017-18 to 2019-20 within lease area.	Cumulatively 9200 number of plants has been planted within lease area from 2017-18 to 2018-19 within lease area.	NIL.
6f	Any other method of rehabilitation	Other than plantation, no specific proposal of any other method of rehabilitation .	Plantation has been carried out as per proposal.	NIL.
6g	Cost incurred on watch and care during the year	No specific proposal on cost of watch and care during the year.	Not applicable as no proposal.	NIL.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal of backfilling.	Not applicable as no proposal of backfilling.	NIL.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal of backfilling.	Not applicable as no proposal of backfilling.	NIL.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal of backfilling.	Not applicable as no proposal of backfilling.	NIL.

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal making reservoir.	Not applicable as no proposal of making reservoir.	NIL.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No any other specific proposal.	Not applicable as no proposal.	NIL.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	It was plan to plant 2000 numbers of saplings during 2018-19 within lease area.	During the year 3015 number of saplings have been planted within lease area.	NIL.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	An area of 1.0 Ha has been proposed for afforestation/ rehabilitation within lease area.	Afforestation/Plantation has been carried out over an area of 1.0 Ha .	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)	Regular Monitoring of environment parameters.	Environment monitoring has been carried out.	NIL.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	An area of 1.0 Ha has been proposed to plant with 2000 numbers of saplings.	An area of 1.00 Ha has been planted with 3015 number of saplings.	No issue related to PMCP compliance.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	All ROM will be dispatched to captive cement plant.	Entire ROM dispatched to the captive plant.	NIL.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal of grade wise sorting.	Not applicable as no proposal.	NIL.
7c	Different grade of mineral sorted out at mines.	No proposal of sorting.	Not applicable as no proposal.	NIL.
7d	Any beneficiation process at mines .	No proposal any beneficiation of ROM/Sub-grade material as entire ROM is useable.	Not applicable as no proposal.	NIL.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Entire limestone has been proposed to utilized.	Limestone is being utilized as per proposal.	No issues related to mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil has been proposed to used for Plantation.	Top soil generated during the year has been utilized for plantation purpose.	NIL.
8b	Concurrent use or storage of topsoil	Concurrent use of top soil has been proposed for the purpose of Plantation.	Top soil generated during the year has been utilized for plantation purpose.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal for OB, Mineral Reject & waste rock generation during the Year 2018-19.	No dumping of Mineral Reject, waste has been observed within lease area.	NIL.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not applicable as no proposal of generation of overburden/waste rock etc.	Not applicable as no proposal.	NIL.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	An area of 1.0 Ha has been proposed for afforestation/rehabilitation within lease area.	Afforestation/Plantation has been carried out over an area of 1.0 Ha.	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No baseline information on plantation in approved document. Further, an area of 1.0 Ha with 2000 number of plants has been proposed for plantation during the year 2018-19.	As reported an area of 15.55 Ha. has been afforested with 22133 number of plants. During the year an area of 1.0 Ha with 3015 number plants has been afforested.	NIL.
8g	Survival rate	No specific proposal of survival rate	88%	NIL.
8h	Water sprinkling on roads to control airborne dust	Regularly water sprinkling during transportation of limestone.	Regular water spraying is being carried out.	NIL.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	It is propose to plant 2000 number of sapling over an area of 1.0 Ha.	A total of 3015 number of plant has been planted over an area of 1.00 Ha.	Aesthetic beauty around and in the mine is maintained.

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, monthly and annual returns to be submitted.	Monthly and annual returns have been submitted for reporting year.	NIL.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information has been furnished about Mining Engineer, Geologist, and 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.	Mining working area -11.11 ha., Occupied by plant, buildings, residential, welfare buildings & roads- 6 ha , and Others (greenbelt)- 15.550 ha	The land use pattern is found to be in order.	NIL.
9d	Scrutiny of Annual return on afforestation	Within lease area: 3015 numbers and outside lease area: 2500 numbers.	Information furnished appears to be corrected.	NIL.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral reject generation: NIL	No mineral reject has been generated.	NIL.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM and Graded 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	No sale of mineral only captive use of mineral. Ex. Mine Price & Production cost Rs. 198.95 per tonne.	Information furnished appears to be corrected.	NIL.
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset furnished is NIL.	No fixed asset within lease area.	NIL.

9k	Scrutiny of Annual return on mining machineries	Rock drill, Back Hoe, Dozer, dumper, water tanker, etc.	The information furnished on mining machineries appears to be in order.	NIL.
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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
MCDR17	Rule 11(1)	24-DEC-19			

Date :

(DILIP JAIN)

Indian Bureau of Mines