

**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 : Shri Somnath Banerjee, AVP (Mines) & Mine Manager
Official with
Designation
- (iv) Date of Inspection : 15-JAN-23
- (v) Prev.inspection date : 03-MAR-22

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 : Sri Jeetendra Kumar Jain
Nuvoco Vistas Corp. Ltd,
Village - Bhawaliya Tehsil
- Nimbahera, Chittorgarh,
CHITTORGARH RAJASTHAN
Phone: 7368801402
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 30-AUG-21
Termination date

Geologist

Name : Krishan Kumar Sharma, Full Time
Qualification : M. Sc (Tech) in Geology
Appointment/ : 30-AUG-21
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
MP review under 17(1) MCR 2016 24-JAN-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	A total of 8 holes with 400 mtrs of drilling was proposed during the previous year 2020-21	A total of 8 holes with 400 mtrs of drilling were carried out during the previous year 2020-21 which was the backlog of the year 2019-20.	Backlog of 08 BHs with 400 mtrs of drilling of FY 2020-21.
1b	Exploration over lease area for geological axis 1 or 2	A total of 8 holes with 400 mtrs of drilling was proposed during the reporting year (RY) 2021-22.	A total of 16 holes with 800 mtrs of drilling were carried out during reporting year (RY) 2021-22 including backlog of year 2020-21.	NIL.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specific in Mining Plan.	Agency- DSS Infra, Kolhapur. Expenditures: Rs. 1966730/-	NIL.
1d	Balance area to be explored to bring Geological axis in 1 or 2	An area of 38.54 hectare was proposed to bring under G1 level of exploration.	An area of 38.54 hectare was proposed to bring under G1 level of exploration.	NIL.
1e	Balance reserve as on 01/04/20	The position of reserve and resources as per approved Mining plan was 63.996 and 224.36 million tons respectively.	The position of reserve and resources as per approved Mining plan was 63.996 and 224.36 million tons respectively.	NIL.
1f	General remarks of inspecting officers on geology, exploration etc	A total of 8 holes with 400 mtrs of drilling were proposed during the reporting year (RY) 2021-22.	A total of 16 holes with 800 mtrs of drilling were carried out during reporting year (RY) 2021-22.	Geologically the area belongs to the Vindhyan Super group of rocks of Nimbahera formation.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	E469673 - E469710 and N2731195 - N2731441	Mine development carried out within proposed limit.	NIL.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of benches in top soil and OB. Benches has been proposed for Limestone production.	There are no existing benches for top soil and overburden at present. Benches have been developed in Limestone.	NIL.
2c	Stripping ratio or ore to OB ratio	1:0 T/T	1:071 T/T	Ratio with interburden generated during the year 2021-22.
2d	Quantity of topsoil generation in m3	174 m3	160 m3	Top soil generated during the year 2021-22 used for plantation purpose.
2e	Quantity of overburden generation in m3	No proposal of OB/waste generation.	2074.80	Waste generated was during the RY was interburden and used for road preparation and maintenance work within lease area.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Opencast method of development was proposed.	Opencast method of development is in practice.	No issue relate to development.

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 MT	72683.29 MT	NIL.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	NIL.
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 during RY.	NIL.
3j	Provision of drilling and blasting in mineral benches	The blast hole drilling 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	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 proposed not more than 10 meter.	Bench height maintained as per proposal.	NIL.
3m	Total area covered under excavation/pits	An area of 12.85 ha at the end of plan period 2024-25.	An area of 11.75 ha at the end of 2021-22.	NIL.

3n	Ore to OB ratio for the pit/mine during the year.	1:0 T/T	1:071 T/T	Ratio with interburden generated during the year 2021-22.
3o	Total area put in use under different heads at the end of year	An area of 18.85 ha at the end of plan period 2024-25.	An area of 17.75 ha at the end of 2021-22.	NIL.
3p	Production of ROM mineral during the last five year period as applicable	2017-18: 70000 2018-19: 200000 2019-20: 200000 2020-21: 200000 2021-22: 200000	2017-18: 45201.15 2018-19: 160720.30 2019-20: 142574.59 2020-21: 37071.98 2021-22: 72683.290	NIL.
3q	General remarks of inspecting officers on method of mining etc.	Opencast method of mining is proposed.	Opencast method of mining is in practice.	The method of mining is best suited method to the type of deposit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top Soil proposed to use concurrently. No proposal of OB/waste and mineral reject generation.	Top soil was concurrently used for plantation. Mineral reject was not generated during RY. Waste generated was during the RY was interburden and used for road preparation and maintenance work within lease area.	Top soil of 160 CuM was generated during RY.
4b	Location of topsoil, OB and mineral reject dumps	Top Soil proposed to use concurrently. No proposal of OB/waste and mineral reject generation.	Top soil was concurrently used for plantation. Mineral reject was not generated during RY. Waste generated was during the RY was interburden and used for road preparation and maintenance work within lease area.	Top soil of 160 CuM was generated during RY.

4c	Number of dumps within lease area and outside of lease area	No proposal of waste dumping.	No waste dump observed as waste generated was interburden and used for road preparation and maintenance work within lease area.	NIL.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable as no proposal of waste dumping.	Not applicable.	NIL.
4e	Number of active and alive dumps.	No proposal of waste dumping.	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	Top Soil proposed to use concurrently. No proposal of OB/waste and mineral reject generation.	Top soil was concurrently used for plantation. Mineral reject was not generated during RY. Waste generated was during the RY was interburden and used for road preparation and maintenance work within lease area.	No waste dump observed. No issue related to waste dumping.

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 full extraction of mineral.	Not applicable.	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)	No proposal of top soil generation during RY.	Not applicable.	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.	None of the 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 2021-22 is not yet due for submission.	NIL.
6b	Area available for rehabilitation (ha) .	No proposal.	Not applicable.	NIL.
6c	afforestation done (ha).	Only proposals of gap filling plantation.	A total of 15.82 hectare has been planted till 31/03/2022.	NIL.
6d	No. of saplings planted during the year	500 nos in gap filling	Gap filling 2055 nos. within ML & 1100 nos. outside ML, Total -3155 nos.	NIL.
6e	Cumulative no .of plants	Not Specified.	Cumulative 35668 nos trees have been planted .	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. 12.25 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 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 in gap filling	Gap filling 2055 nos. within ML & 1100 nos. outside ML, Total -3155 nos.	NIL.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Only proposals of gap filling plantation.	A total of 15.82 hectare has been planted till 31/03/2022.	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.	Periodic compliance report is regularly submitted to concerned authorities.	NIL.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	A total of 500 number of saplings have been proposed to plant in gap filling.	A total of 2055 nos. of saplings have been planted in gap filling within ML & 1100 nos. outside ML, Total -3155 nos.	NIL.

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.	Entire ROM dispatched to crusher located at cement plant.
7c	Different grade of mineral sorted out at mines.	No proposal.	Not applicable.	NIL.
7d	Any beneficiation process at mines	No proposal of any beneficiation.	Not applicable.	NIL.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No proposal of any beneficiation.	Not applicable.	NIL.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Top soil of 174 CuM was proposed to generate.	Top soil of 160 CuM was generated during RY.	Top soil was concurrently used for plantation purpose.
8b	Concurrent use or storage of topsoil	Top Soil proposed to use concurrently.	Top soil was concurrently used for plantation purpose.	NIL.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal of waste and reject generation.	Mineral reject was not generated during RY. Waste generated was during the RY was interburden and used for road preparation and maintenance work within lease area.	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)	500 nos in gap filling.	Gap filling 2055 nos. within ML & 1100 nos. outside ML, Total -3155 nos.	NIL.
8g	Survival rate	No proposal.	70%	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	A total of 500 number of saplings have been proposed to plant in gap filling.	A total of 2055 nos. of saplings have been planted in gap filling within ML & 1100 nos. outside ML, Total -3155 nos.	The general aesthetic beauty is satisfactory in and around mine area.

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 - Somnath banerjee 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.	Pit : 11.75 ha Waste Dump: Nil Infrastructure : 6.0 ha. Green Belt: 15.82 ha.	The information of land use furnished appears in order.	NIL.
9d	Scrutiny of Annual return on afforestation	Within Lease - 2055 trees planted	Found to be 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 graded ore 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	Ex Mine Price and cost of production: Rs 287.16/tons.	Appears in order.	NIL.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets (in ?) 274687086/-	Appears in order.	NIL.
9k	Scrutiny of Annual return on mining machineries	Back hoe, Dozer, Dumper, Rock Drilling Machine, Water Tanker, Explosive Van etc.	Back hoe, Dozer, Dumper, Rock Drilling Machine, Water Tanker, Explosive Van etc.	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

Date :

(DILIP JAIN)

Indian Bureau of Mines