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 : \$012) H C SHARMA

Officer and ID No.

(ii) Designation : Assistant Controller Mine

(iii) Accompaning mine : Sh. Somnath Banerjee, Mine Manager

Official with Designation

(iv) Date of Inspection : 23-JUL-19
(v) Prev.inspection date : 02-AUG-17

PART-I : GENERAL INFORMATION

(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.

Equinex Business Park, Tower 3, East Wing, 4 th Floor, Off Bandra Kula 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 : Raghvendrarao 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	No Backlog	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	25 Boreholes each of 50m depth (total Meterage of 1250) were proposed during the year 2018-19	Total 25 Bore holes drilled to a meterage o 1138m during 2018-19.	Less Drilling as f some of the holes could not be drilled to 50m depth due to geological disturbances.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	DSS IFRA Kohapur	Rs 3.451736.00	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Proposal of 24 nos of holes in 2019-20.	18 nos of holes drilled & exploration work unde progress.	
1e	Balance reserve as on 01/04/20	67 million tones	67 million tones as on $1/4/2019$.	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The lesseee conduct towards exploration was satisfactory.	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area		5	
2b	in topsoil,	<pre>in mineral only. as there</pre>	soil & O/B at proposed	
2c	Stripping ratio or ore to OB ratio	1:0 (Not applicable)	1:0 (Not applicable)	

2	2d	Quantity of topsoil generation in m3	Nil	Nil
2	2e	Quantity of overburden generation in m3	Nil	Nil
2	2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	The opencast manual method has been adopted to carry out mining operations in the pit which is best suited for the type of deposit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit	Single pit	
3b	Quantity of ROM mineral production proposed	200000 T	160720 T	
3с	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d		No mineral reject generation.	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	No subgrade generation	Nil	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	

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Any analysis or
                      No proposal
                                      Not applicable
    beneficiation
    study proposed
    and carried out
    for sub grade
    mineral and
    rejects.
3 ј
    Provision of
                       The drilling
                                      As per proposals
    drilling and
                       of 115mm dia
    blasting in
                      holes by drill
    mineral benches
                      machines
                       operated by
                       Compressed air
                       & blasting
                       slurry cap
                       sensitive
                       explosive,
                       ANFO and SME
                       to be used.
3k
    Provision of
                      Drill M/C of
                                      Drill M/C of 115mm dia,
    mining
                       115mm dia, Air Air Compressor,
    machineries in
                      Compressor,
                                      Excavator of 2.4 CuM
    mineral benches
                       Excavator of
                                      bucket & dumpers of 16T,
                       2.4 CuM bucket Dozer & Rock Breaker.
                       & dumpers of
                       16T, Dozer &
                      Rock Breaker.
31
    Whether height
                      Yes
                                      Yes
    of benches in
    overburden and
    mineral suitable
    for method of
    mining proposed
    in MP/SOM
3m
    Total area
                       11.11 ha
                                      11.11 ha
    covered under
    excavation/pits
                      Not applicable Not applicable (1:0)
    Ore to OB ratio
3n
    for the pit/mine (1:0)
    during the year.
30
    Total area put
                       Pit 12 ha,
                                      Pit 11.11 ha, Reject
    in use under
                      Reject Dump-
                                      Dump- Nil, Others- Nil
    different heads
                      Nil, Others-
    at the end of
                      Nil
    year
    Production of
                       2013-
                                      2013-14=0.78MT, 2014-
3р
    ROM mineral
                       14=2.59MT,
                                      15=1.996MT, 2015-
    during the last
                       2014-
                                      16=0.60MT, 2016-
     five year period 15=2.61MT, 2015 17=0.14MT, 2017-
    as applicable
                       -16=1.04MT,
                                      18 = 0.45MT.
                       2016-
                       17 = 0.35MT,
                       2017-
                       18 = 0.35MT.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is no top soil or O/B waste in the area, mineral is outcropping in the area.	There is no top soil or O/B waste in the area, mineral is outcropping in the area.	
4b	Location of topsoil, OB and mineral reject dumps	No proposal in absence of Top Soil & O/B waste or reject.	Not applicable	
4c	Number of dumps within lease area and outside of lease area	Not applicable	Not applicable	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Not applicable	
4e	Number of active and alive dumps.	No proposal	Not applicable	
4f	Number of dead dumps.	No proposal	Not applicable	
4g	Number of dumps established.	No proposal	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Not applicable	
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Not applicable	
4j	Number of settling ponds	No proposal	Not applicable	
4k	Specific comments of inspecting officer on waste dump management	Not applicable	There is no top soil, O/B waste or reject in the area.	

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	Not applicable	
5b	Area under backfilling of mined out area	Nil	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There is no top soil.	Not applicable	
5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	There is no top soil, O/B waste or reject in the area, which can be used 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	Submitted	
6b	Area available for rehabilitation (ha) .	No proposal	Not applicable	
6c	afforestation done (ha).	2000 nos	3015 nos planted	
6d	No. of saplings planted during the year	2000 nos	3015 nos	
бе	Cumulative no .of plants	No baseline information available	Not reported	
6f	Any other method of rehabilitation	No proposal	Not applicable	
6g	Cost incurred on watch and care during the year	No Proposal	Not applicable	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Not applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Not applicable
бm	Compliance of rehabilitation of waste land within lease (i)afforestation	2000 nos	3015 nos
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Not applicable
60	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	Not applicable

6p	Compliance of environmental monitoring (core zone and buffer zone)	monitoring as	Being done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	There is no issue regarding implementation of PMCP in the mine.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	dispatched to the captive	As per proposals.	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	No proposal	Not applicable	
7c	Different grade of mineral sorted out at mines.	No proposal	Not applicable	
7d	Any beneficiation process at mines .	No proposal	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	There is no issue regarding mineral conservation in the area.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	top soil in	Not applicable	

8b	Concurrent use or storage of topsoil	Not applicable as there is no top soil.	Not applicable
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	There is no O/B waste or Reject in the mine requiring its dumping.	Not applicable
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not applicable in absence of such material.	Not applicable
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	About 13.8 ha area will be Covered by Plantation during SOM Plan Period.	22133 Trees have been planted so far on 15.55 ha area.
8g	Survival rate	88%	88%
8h	Water sprinkling on roads to control airborne dust	spraying	Regular water spraying is being carried out.
8i 	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The general aestharic beauty of in & around the mine is satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Not applicable	The M/R submitted up to July 2019. The A/R submitted for 2018-19.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sh. Mahendra Kumar Vyas as Mining Engineer, Sh. Somnath Banerjee as Manager mines & Sh Mrinmoy Chakraborty as Geologist in the mine.	Sh. Mahendra Kumar Vyas as Mining Engineer, Sh. Somnath Banerjee as Manager mines & Sh Mrinmoy Chakraborty as Geologist in the mine.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Covered under current Working 11.11 ha, Occupied under plant & building- 6.00 ha, Dumps-Nil, Top Soil Stack- Nil
9d	Scrutiny of Annual return on afforestation	Number of trees planted 3015 within lease & 2500 outside lease area.	Number of trees planted 3015 within lease & 2500 outside lease area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject Generation Nil & Grade Nil	Reject Generation Nil & Grade Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore		Production made 160720 T with closing stock as Nil.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		The Sale Value & Ex mine price Nil as in captive Cement Plant Consumption. The Cost of Production not reported.
9h	Scrutiny of Annual return on fixed assets	The Value of fixed assets reported as Nil.	The Value of fixed assets reported as Nil, which can not be NIL.
9k	Scrutiny of Annual return on mining machineries	Details Furnished	Found O. K.

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Details of violations observed during current violation pointed out	t inspection and compliance position of	
Violation observed	Show couse position	

Issued on Compliance on Rule NO. Issued on Compliance on

Date: (H C SHARMA)

Rule NO.

Indian Bureau of Mines