

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/PAL-47/LST-5

Mine code : 38RAJ21012

- (i) Name of the Inspecting : **P022**) **PANKAJ KULSHRESTHA**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Rajesh Bora, Mine Manager
Official with
Designation
- (iv) Date of Inspection : 18/08/2023
- (v) Prev.inspection date : 25/04/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **DIGRANA 377/90**
- (b) **Registration NO.** : **IBM/378/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : RAJASTHAN
District : PALI
Village : DIGRANA
Taluka : JAITARAN
Post office : NIMBOL
Pin Code : 306308
FAX No. : 02939-222481
E-mail : nitin.purohit@nuvoco.com
Phone : 02939-222481
- (f) Police Station : JAITARAN
- (g) First opening date : 28/04/2015
- (h) Weekly day of rest : SUN
2. Address for : Nuvoco Viatas Corporation Ltd.,
correspondance : At & PO- Nimbol, Tehsil - Jaitaran,
District Pali
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 : Nuvoco Viatas Corporation Ltd.
 At & P O - Nimbol Tehsil
 Jaitaran Pali, Rajasthan
 PALI RAJASTHAN
 Phone:
 FAX :

Agent : Amit Pidiha
 Nuvoco Vistas Corporation
 Limited At & PO: Nimbol,
 Tehsil: Jaitaran, District:
 Pali, State: Rajasthan PALI
 RAJASTHAN
 Phone:
 FAX :

Mining Engineer

Name : Tushar Kanti Paul, Full Time
 Qualification : Diploma (Mining) & II Class FCC(R)
 Appointment/ : 01/07/2019
 Termination date

Geologist

Name : KRISHAN KUMAR SHARMA, Full Time
 Qualification : MSc GEOLOGY
 Appointment/ : 01/07/2015 20/08/2021
 Termination date

Geologist

Name : Arunachala Sadangi, Full Time
 Qualification : M.Sc. (Geology)
 Appointment/ : 20/04/2022
 Termination date

Manager

Name : RAJESH BORA
 Qualification : B.E (MINING)
 Appointment/ : 01/07/2015
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	09/05/2013
Plan/Scheme of Mining		MP modif under 17(3) MCR 2016	31/05/2017
		MP review under 17(1) MCR 2016	08/01/2020
		MP modif under 17(3) MCR 2016	05/04/2021

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2021-22 23 borehole ,1980 meterage	Work not carried out as per proposal, a violation letter has been issued in this regard.	Proposal merged with future plan for FY 2021-22 due to covid-19 pandemic
1b	Exploration over lease area for geological axis 1 or 2	G1 Axis 76.71ha. G2 Axis 6.53ha. G3 Axis 16.76ha.	G1 Axis 76.71ha. & 12.442 reserve is under G1 category G2 Axis 6.53 ha. & 1.89 Million Tonne resources will be converted into G-1 axis G3 Axis 16.76 ha. & 2.40 Million resources will be converted into G-1 axis	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration Agency -Not specified in Mining Plan, Expenditure-Not specified in Mining Plan	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	16.76 ha.	G3 Axis 16.76 ha. & 2.40 Million resources will be converted into G-1 axis	
1e	Balance reserve as on 01/04/20	13.278 Million Tonnes	As on 01.04.2023 13.278 Million Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	NA	The present status of geology and exploration may be considered as satisfactory.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	As per proposal in Approved mining plan	As per proposal in Approved mining plan	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, separate benches proposed in top soil, overburden and mineral	Yes, as per proposal
2c	Stripping ratio or ore to OB ratio	1:0.103	1:0.119
2d	Quantity of topsoil generation in m3	NA	88344 m3
2e	Quantity of overburden generation in m3	100000 m3 during the year 2022-23.	59427 m3 during the year 2022-23
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	The overall status of development of pit w.r.t type of deposit may be considered as satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One working pit. Pit no. 7,9,10 & 13 merged with pit no. 12 .	
3b	Quantity of ROM mineral production proposed	1000000 Tonne	301823.900 Tonne	
3c	Recovery of sailable/usable mineral from ROM production	1000000 Tonne	301823.900 Tonne during the year 2022-23	
3d	Quantity of mineral reject generation	NA	NA	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NA	NA	
3g	Grade of sub grade mineral generation	NA	NA	

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not in Proposal	No such study carried out during the year 2022-23.
3j	Provision of drilling and blasting in mineral benches	Yes	Drilling operation carried out with DTH Drilling ICM 260 & ROC D40 having hole dia of 115 mm
3k	Provision of mining machineries in mineral benches	Yes	L&T 300 CK loading excavator with the combination of Volvo FMX 440 tipper for transportation of Limestone.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 8 m height	At some places the bench geomatry is not as per proposal. A violation letter has been issued in this regard.
3m	Total area covered under excavation/pits	NA	21.8400 hecets.
3n	Ore to OB ratio for the pit/mine during the year.	1:1.0 during the year 2022- 23	1: 0.197 during the year 2022-23.
3o	Total area put in use under different heads at the end of year	31.33 ha	31.33 ha
3p	Production of ROM mineral during the last five year period as applicable	2017-18 0.71 MTPA 2018-19 0.918 MTPA 2019-20 1.50 MTPA 2020-21 0.80 MTPA 2021-22 0.80 MTPA 2022-23 1.00MTPA	2017-18 0.434 MT 2018-19 0.437 MT 2019-20 0.301MT 2020-21 0.227MT 2021-22 0.381MT 2022-23 0.302MTPA

3q General remarks of inspecting officers on method of mining etc. NA The current status of method of mining may be considered as satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes, Separate dumping is being practiced for top soil and OB.	Top soil is being used for Plantation of Saplings
4b	Location of topsoil, OB and mineral reject dumps	NA	As per approved mining plan.	
4c	Number of dumps within lease area and outside of lease area	Within the lease area - 06	Within the lease area - 06	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	Three old dumps are within UPL & three dumps are outside UPL	
4e	Number of active and alive dumps.	2 dumps	2 dumps are active and alive	
4f	Number of dead dumps.	04	04 dead dumps	
4g	Number of dumps established.	NA	One	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	900 (m)Retaining wall along dumps	
4i	Length of Retaining wall or garland drain all along dumps	NA	900 M	
4j	Number of settling ponds	NA	Nil	
4k	Specific comments of inspecting officer on waste dump management	NA	The present status of waste dump management may be considered as satisfactory.	

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.	Not Matured	NA	
5b	Area under backfilling of mined out area	Not in proposal	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	The top soil is being utilised in plantation program	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	The mine is not matured for back filling and reclamation. Therefore not applicable at the moment.	

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).	Yes	Yes, as per proposal.	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.5 ha. 500 Nos.	During the year 500 saplings were planted in 0.5 hectare of area.	
6d	No. of saplings planted during the year	500 No.	During the year 2022-23 total 500 saplings were planted.	
6e	Cumulative no .of plants	3500	3846 aprox	
6f	Any other method of rehabilitation	NA	Nil	
6g	Cost incurred on watch and care during the year	Rs. 2,50,000	NA	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NA	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes, environmental monitoring is being done in core zone and buffer zone.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	The overall status of compliance of PMCP and progressive closure operations may be considered as satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch to cement plant.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	No grade-wise sorting is being performed at mine site. Entire ROM is dispatched to factory.	
7c	Different grade of mineral sorted out at mines.	NA	Nil	
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The overall status of Mineral Conservation may be considered as satisfactory.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes, the top Soil is being used for Plantation of sapling.	

8b	Concurrent use or storage of topsoil	Yes	Soil is being utilized for plantation on mining lease periphery
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Separate dump for overburden observed during the inspection.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	The mine is not matured for restoring the land to its original.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	Nil, no such phased restoration, reclamation and rehabilitation of land affected by mining operations is possible at present as the mine is not matured for the same.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NA	Total 3846 sapling have been planted so far. During the year 2022-23 500 saplings have been planted.
8g	Survival rate	80%	Aprox. 80% at the mine site as observed during the inspection.
8h	Water sprinkling on roads to control airborne dust	Yes	A water tanker is deployed in mines for water sprinkling on all dust generating points on regular basis.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	The overall status of aesthetic beauty in and around mines area may be considered as satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Yes.	Yes , the annual return for the year 2022-23 has been submitted on 26/06/2023.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager : Shri Rajesh Bora Mining Engineer : Shri Tusar Kanti Paul Geologist : Brejash Sharma	Yes, the mines manager, mining engineer and geologist have been appointed.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/C working - 21.84 ha. Waste dump - 8.49 ha. Infrastructure & Roads - 2.00 ha.	Yes, as above.
9d	Scrutiny of Annual return on afforestation	Number of Tree planted during the year 2022-23 = 500 nos.	Number of Tree planted during the year 2022-23 = 500 nos.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NA	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM production during the year 2022-23 : 301824 t, Cement Grade, Closing Stock at mine head :	ROM production during the year 2022-23 : 301824 t, Cement Grade, Closing Stock at mine head : 0 t
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price : Rs. 471.06/ T	Ex- mine price reported as Rs. 471.06/t seems to be correct.
9h	Scrutiny of Annual return on fixed assets	Value of fixed Assets(Rs.) = 106464001/-	Value of fixed Assets(Rs.) = 106464001/-
9k	Scrutiny of Annual return on mining machineries	Drill Machine, Excavators and Dumpers etc.	BACK HOE -1, SHOVEL (HYDRAULIC) -1, TRIPPER-4, ROCK DRILL (NON-ELEC.)115mm-2, DOZER-1, WATER TANKER-1 and Explosive Van-1 have been deployed in the mines.

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed				Show cause position			
Rule NO.		Issued on	Compliance on	Rule NO.		Issued on	Compliance on
MCDR17	Rule 11(1)	29/08/2023	31/10/2023				
	Rule 45(7)	29/08/2023	31/10/2023				

Date :

(PANKAJ KULSHRESTHA)

Indian Bureau of Mines