

**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 : **G021**) **D R GURJAR**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Rajesh Bora, Mine Manager
Official with
Designation
- (iv) Date of Inspection : 25-APR-22
- (v) Prev.inspection date : 16-JAN-21

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-APR-15
- (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-JUL-19
 Termination date

Geologist

Name : KRISHAN KUMAR SHARMA, Full Time
 Qualification : MSc GEOLOGY
 Appointment/ : 01-JUL-15 20-AUG-21
 Termination date

Geologist

Name : Arunachala Sadangi, Full Time
 Qualification : M.Sc. (Geology)
 Appointment/ : 20-APR-22
 Termination date

Manager

Name : RAJESH BORA
 Qualification : B.E (MINING)
 Appointment/ : 01-JUL-15
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	09-MAY-13
Plan/Scheme of Mining		MP modif under 17(3) MCR 2016	31-MAY-17
		MP review under 17(1) MCR 2016	08-JAN-20
		MP modif under 17(3) MCR 2016	05-APR-21

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During the year 2020-21, exploration was proposed by way of 10 bore holes having 780m.	No exploratory drilling has been carried out during the year 2020-21	In the modified mining plan approved on 05.04.2021, the proposal of exploration for the year 2020-21 has been given in the year 2021-22.
1b	Exploration over lease area for geological axis 1 or 2	During the year 2021-22, exploration was proposed by way of 23 bore holes having 1980m drilling.	No exploratory drilling has been carried out during the year 2021-22.	During the year 2021-22 exploration was proposed by drilling of 23 bore holes (1980m) but no exploration drilling has been carried out till inspection, hence violation of Rule11(1) of MCDR 2017 issued vide letter dated 01.07.2022.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Exploration Agency & Expenditures -Not specified in the approved proposal	None during the year 2021-22 as no exploration drilling has been carried out.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Proposal given to cover G2 (6.53hect area)& G3 (16.76 hect area) into G1 level during the year 2021-22.	No exploration drilling has been carried out.	Total lease area 100 hect (G1-76.71 hect, G2-6.53 hect. 7 G3-16.76 hect.).
1e	Balance reserve as on 01/04/20	No specific proposal given in this regard.	Reserve ss on 01.04.2022: 13.580 Million Tonnes	Nil

1f	General remarks of inspecting officers on geology, exploration etc	During the year 2021-22 exploration was proposed by drilling of 23 bore holes (1980m) but no exploration drilling has been carried out till inspection, hence violation of Rule11(1) of MCDR 2017 issued vide letter dated 01.07.2022.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Between grid 2918270N to 2918990N & 384710E to 385280E	As per proposal.	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes proposal for topsoil, overburden and mineral benches	Yes separate benches in topsoil, overburden and mineral	Nil
2c	Stripping ratio or ore to OB ratio	2021-22 1:0.103	2021-22 1:0.119	tonne :cum
2d	Quantity of topsoil generation in m3	2021-22 24490 m3	2021-22 0.0 m3	No top soil generation during the year.
2e	Quantity of overburden generation in m3	2021-22 82440 m3	2021-22 45494m3	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mine development has been carried out within proposed limit.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	01 Pit	01 Pit	Nil
3b	Quantity of ROM mineral production proposed	2021-22 800000 Tonne	2021-22 380979.770 Tonne	Nil
3c	Recovery of sailable/usable mineral from ROM production	2021-22 800000 Tonne	2021-22 380979.770 Tonne	Nil
3d	Quantity of mineral reject generation	No Mineral reject generation proposed.	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No Mineral reject generation proposed.	Nil	Nil
3f	Quantity of sub grade mineral generation.	No subgrade mineral generation proposed.	No subgrade mineral generated.	Nil
3g	Grade of sub grade mineral generation	No subgrade mineral generation proposed.	No subgrade mineral generated.	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal during the last year	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Yes	Yes, drilling operation carried out with DTH Drilling ICM 260 & ROC D40 having hole dia of 115 mm	Nil
3k	Provision of mining machineries in mineral benches	Yes	Yes, Using L&T 300 CK loading excavator with the combination of Volvo FMX 440 tipper for transportation of Limestone & OB.	Nil

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes as per proposal.	Nil
3m	Total area covered under excavation/pits	At the end of plan period i.e. 2024-25 it is proposed that total area will be covered under excavation/pits will be: 31.05 ha.	At the end of year 2020-21 total area covered under excavation/pits is: 19.04 ha.	Annual return not submitted for the year 2021-22.
3n	Ore to OB ratio for the pit/mine during the year.	2021-22 1:0.103 (cum:tonne)	2021-22 1:0.119 (cum:tonne)	Nil
3o	Total area put in use under different heads at the end of year	At the end of plan period i.e. 2024-25 it is proposed that total area put in use under different head: 55.047 ha.	At the end of year 2020-21 total area put in use under different head is 29.53 hect.	Annual return not submitted for the year 2021-22.
3p	Production of ROM mineral during the last five year period as applicable	2017-18: 0.71 MT 2018-19: 0.918 MT 2019-20: 1.50 MT 2020-21: 0.8 MT 2021-22: 0.8 MT	2017-18: 0.434 MT 2018-19: 0.437 MT 2019-20: 0.301MT 2020-21: 0.227MT, 2021-22: 0.381MT	MT- Million Tonnes
3q	General remarks of inspecting officers on method of mining etc.			Method of mining is suitable to the type of deposit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top soil : No proposal OB:Yes Mineral Reject:No proposal	Top soil : Not generated OB:Yes Mineral Reject: Not generated	Nil
4b	Location of topsoil, OB and mineral reject dumps	Proposed location of OB/Waste 2021-22: Dump No. 5 385100 E to 385440E & 2918300 N to 2918650 N	OB dumping has been carried out within proposed limit.	Nil
4c	Number of dumps within lease area and outside of lease area	2021-22: Within the lease area - 06 Outside the lease area - Nil	2021-22: Within the lease area - 06 Outside the lease area - Nil	Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Four old dumps are within UPL	Four old dumps are within UPL	Nil
4e	Number of active and alive dumps.	01	01	Nil
4f	Number of dead dumps.	05	05	Nil
4g	Number of dumps established.	No such proposal given	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Gralnd drain & retaining wall are there.	Nil
4i	Length of Retaining wall or garland drain all along dumps	During the year 2021-22, total 318m retaining wall proposed.	318m retaining wall in the year 2021-22.	As reported in PMCP report 2021-22.
4j	Number of settling ponds	No such proposal given	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management			No specific issue observed related to waste dump management.

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	During the year 2021-22 no backfilling was proposed.	No backfilling has been carried out.	Nil
5b	Area under backfilling of mined out area	During the year 2021-22 no backfilling was proposed.	No backfilling has been carried out.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For plantation	No top soil generated during the year 2021-22.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal during the year 2021-22.	None during the year	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Area is not fully matured for backfilling at this stage.

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).	PMCP yearly report shall be submitted up to 1 July for the preceding financial year.	PMCP yearly report for the year 2021-22 submitted on 25.05.2022.	Nil
6b	Area available for rehabilitation (ha) .	No proposal	Not applicable	Nil
6c	afforestation done (ha).	2021-22: 0.5 hect. over waste dump	2021-22: 0.5 hect. over waste dump	Nil
6d	No. of saplings planted during the year	500 nos.	500 nos.	Nil
6e	Cumulative no .of plants	Not specified	3346 nos. (up to 31.03.2022)	As per PMCP data submitted on 25.05.2022

6f	Any other method of rehabilitation	No proposal	None	Nil
6g	Cost incurred on watch and care during the year	Rs. 250000	Rs. 262000	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal of backfilling during the year 2021-22.	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal of backfilling during the year 2021-22.	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	No proposal	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal during the year 2021-22.	None during the year 2021-22.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal	Not applicable	Nil

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	None	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring proposed.	Monitoring is being carried out.	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	During the year 2021-22 total 0.8 million tonne limestone will be dispatched to captive cement plant.	During the year 2021-22 total 0.381 million tonne limestone dispatched to captive cement plant.	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	No grade wise sorting.	Nil
7c	Different grade of mineral sorted out at mines.	No proposal	Nil	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 was observed related to mineral conservation.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes proposal given.	During the year 2021-22, no top soil generated.	Nil
8b	Concurrent use or storage of topsoil	It will be use in plantation if encountered.	No top soil generated.	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes. OB/Waste dumps proposed	As per proposals.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	During the year 2021-22, no such proposal given.	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	During the year 2021-22, no such proposal given.	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 2021-22 total 500 nos. sapling was proposed.	During the year 2021-22 total 500 sapling planted. Cummulative plantation- 3346 nos.	Nil
8g	Survival rate	Not specified	Approximately 80%	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling was proposed.	Water sprinkling was observed on haul roads.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty is satisfactory in and around mines area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly return submitted up to May 2022 & annual return submitted up to year 2020-21.	Timely submission of returns.	Nil
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details given in AR 2020-21. Manager - Sh. Rajesh Bora Geologist- Sh. K.K. Sharma Mining Engineer- Sh. Tushar Kanti Paul	Found correct.	Nil
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	O/C working - 19.04 ha. Waste dump - 8.49 ha. Infrastructure & Roads - 2.000 ha.	Semms to be correct.	However area under head work done under PMCP during the year 2020-21 has not been shwon hence violation of Rule 45(7) of MCDR 2017 issued vide letter dated 01.07.2022.
9d	Scrutiny of Annual return on afforestation	Number of Tree planted during the year 2020-21 = 500 nos.	Seema to be corerct.	Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Detail given No reject generation reported	No reject generated.	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock -Nil	Seems to be correct.	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price 427.38 Rs/T & production cost = 512.39 Rs./T	In case of captive mine ex mine price should be matched with cost of production hence show cause notice of Rule 45(7) of MCDR 2017 issued vide letter dated 01.07.2022.	Some other discrepancies were also observed related to costing hence show cause notice of Rule 45(1) of MCDR 2017 issued vide letter dated 01.07.2022.
9h	Scrutiny of Annual return on fixed assets	Value of fixed Assets(Rs.) = 224968909/-	Some dicrepenicised observed related to depreciation of fixed assets hence show cause notice of Rule 45(7) of MCDR 2017 issued vide letter dated 01.07.2022.	Nil

9k Scrutiny of Details given Seems to be correct. Nil
Annual return on in AR
mining
machineries

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)	01-JUL-22		MCDR17 Rule 45(7)	01-JUL-22	
MCDR17 Rule 45(7) (a)	01-JUL-22				

Date :

(D R GURJAR)

Indian Bureau of Mines