

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

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/PAL-48/LST-6

Mine code : 38RAJ21013

- (i) Name of the Inspecting : **P022**) **PANKAJ KULSHRESTHA**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Nitin Purohit, Mine Manager
Official with
Designation
- (iv) Date of Inspection : 09/08/2023
- (v) Prev.inspection date : 26/04/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SINLA 492/93**
- (b) **Registration NO.** : **IBM/378/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : RAJASTHAN
District : PALI
Village : SINLA
Taluka : JAITARAN
Post office : NIMBOL
Pin Code :
FAX No. : 02939-222481
E-mail : nitin.purohit@vucoco.com
Phone : 02939-222481
- (f) Police Station : JAITARAN
- (g) First opening date : 10/06/2015
- (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 : Sanjay Dwivedi, Full Time
 Qualification : B.E. Mining, Total Experience - 20 year
 Appointment/ : 18/12/2021
 Termination date

Geologist

Name : PRADEEP SINGH, Full Time
 Qualification : MSC (GEOLOGY)
 Appointment/ : 01/07/2015
 Termination date

Manager

Name : Nitin Purohit
 Qualification : BE(Mining) & FCC(R)
 Appointment/ : 04/06/2018
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	01/06/2015
Plan/Scheme of Mining		MP modif under 17(3) MCR 2016	12/09/2017
		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	During the year 2021-22 total 26 bore holes with total meterage 2140 m were proposed. No exploration proposed in teh year 2022-23.	The exploration proposed during the year 2021-22 was not implemented for which a violation letter was issued by this office. Subsequently an intimation of exploration was recieved by the same has not been completed so far. A violation letter for the same has been issued vide letter dated 28.08.2023.	
1b	Exploration over lease area for geological axis 1 or 2	G1: 43.12 ha, G2 : 6.59 ha,	G1: 43.12 ha, G2 : 6.59 ha, further 26.26 ha of area is under exploration program which is likely to be completed very near future.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	Not available	
1d	Balance area to be explored to bring Geological axis in 1 or 2	23.45 ha	23.45 ha of area which is considered as non mineralised is to be explored.	
1e	Balance reserve as on 01/04/20	14.64 million tonnes	14.64 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	NA	The present status of geology/ exploration may not be considered as satisfactory. In spite of approved rate of production the party is not raising production as per approved plan. The problem of inter bands bearing high MGO has been reported during the inspection. Therefore it is essential to explore the entire deposit thoroughly and than after 3D modelling of deposit design appropriate production plan to cater the need of cement plan.	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	During the year 2022-23 it was proposed to develop pit no. 5 and expansion of existing pit from top RL 310 to bottom RL 279 by forming various benches.	The development has not been done as per proposal.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes, seperate benches have been formed in soil, O/B and mineral.	
2c	Stripping ratio or ore to OB ratio	1:0.52	1:0.6	
2d	Quantity of topsoil generation in m3	10907 cu.m. during the year 2022-23		
2e	Quantity of overburden generation in m3	309789 cu.m. during the year 2022-23		
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	The over all 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	Pit no. 5 and extension	
3b	Quantity of ROM mineral production proposed	6,00,000 t of ROM was proposed during the year 2022-23	During the year 12477.870 t of ROM was produced.	
3c	Recovery of sailable/usable mineral from ROM production	Entire ROM is usable.	Entire ROM is dispatched to cement plant.	
3d	Quantity of mineral reject generation	NA	Nil	

3f	Quantity of sub grade mineral generation.	NA	No sub grade mineral generation reported.
3g	Grade of sub grade mineral generation	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	No such study rproposed and carried out during the year 2022-23.
3j	Provision of drilling and blasting in mineral benches	Yes	Yes, provision of drilling and blasting in mineral benches were practised as per proposal.
3k	Provision of mining machineries in mineral benches	Yes	Yes, mining machineries have been deployed in mineral benches.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes
3m	Total area covered under excavation/pits	14.75 ha	14.75 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.53	1:0.6 during the year 2022-23
3o	Total area put in use under different heads at the end of year	Under Pit 14.75 ha. plantation 0.5 ha (during the year)	Total area put in use is under Pit 14.75 ha. plantation 0.5 ha (during the year 2022-23)
3p	Production of ROM mineral during the last five year period as applicable	2018-19 : 800000 t 2019-20: 800000 t 2020-21: 550000 t 2021-22: 550000 t 2022-23: 600000 t	2018-19 : 410316 t 2019-20: 265901 t 2020-21: 80004 t 2021-22: 2607.91 t 2022-23: 12477.87

3q	General remarks of inspecting officers on method of mining etc.	NA	The current status of method of mining may not be considered as satisfactory. As per approved modified mining plan, It was proposed to produce 85% of limestone from this mine. But the same has not been achieved.
----	---	----	---

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Soil 10907 cum and OB/SB/IB 30 309789 cum were expected during the year 2022-23.	During the above period total O/b-waste generation reported as 2654 cum. No reject generation reported.	
4b	Location of topsoil, OB and mineral reject dumps	No space for stacking of top soil was marked as soil was proposed to be utilized for plantation.It was proposed to dump the waste generaeted, near boundary line 'C-O' with terraces of height 10 m each.	As above, 382270E 382398E, 2914240N 2914300N	
4c	Number of dumps within lease area and outside of lease area	Within the lease area - 02 Outside the lease area - Nil	Within the lease area - 02 , Outside the lease area - Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Two dumps	One dump with outside the UPL & one dump partially inside UPL	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	One	One	

4g	Number of dumps established.	No proposal	Not applicable
4h	Whether Retaining wall or garland drain all along dumps are there.	It ws proposed to construct 120 m retaining wall during the eyar 2022-23 where as garland drain as per requirement..	Constructed 120 m retaining wall during the eyar 2022-23 .
4i	Length of Retaining wall or garland drain all along dumps	Total retaining wall 272 meters around the dump.	Constructed 272 m retaining wall around the dumps.
4j	Number of settling ponds	No such proposal	Not applicable
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	Not applicable	
5b	Area under backfilling of mined out area	Not in Proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not in Proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	Not in Proposal	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	Area not matured for backfilling and reclamation ,may be considered as satisfactory.
----	--	----	--

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, as per rule	Yes as per rule	
6b	Area available for rehabilitation (ha) .	No such proposal	Nil	
6c	afforestation done (ha).	0.5 ha	0.5 ha	
6d	No. of saplings planted during the year	500 saplings to be planted during the year.	500 saplings planted during the year.	
6e	Cumulative no .of plants	3600 Nos.	3407 Nos.	
6f	Any other method of rehabilitation	Not in Proposal	Not applicable	
6g	Cost incurred on watch and care during the year	Not in Proposal	Not furnished	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposal during the year	Not applicable	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not in Proposal	Not applicable	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	Not in Proposal	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not in Proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not in Proposal	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not in Proposal	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not in Proposal	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not in Proposal	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Monitoring will be done AAQ, Water & Noise	Monitoring of AAQ, Water & Noise are carried out quarterly basis.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	The overall status of PMCP compliance 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 dispatch, no mineral sorting proposed at mine site.	As per proposal
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical
7c	Different grade of mineral sorted out at mines.	No grading proposaed, the only grade is cement grade	As per proposal
7d	Any beneficiation process at mines	No such proposal	Not applicable
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The ovarall 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	
8b	Concurrent use or storage of topsoil	Top Soil shall be stacked & utilized	Top soil is utilized for plantation at mines periphery	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not in Proposal	Not applicable	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal	Not applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed plantation at end of year-2022-23 =3600 nos.	Actual plantation at the end of year 2022-23 is 3407 .
8g	Survival rate	Not specified in Mining Plan	60% as reported during the inspection
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on all dust generating points i.e. haul road, loading points	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
9a	Status of submission of Monthly and Annual returns	Yes, as per rule.	Yes as per rule	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer : Shri Sunil Mehndiratta, Geologist - Shri Pradeep Singh and Mines Manager Shri Nitin Purohit	As above.	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings : 14.75 ha Used for waste disposal : 7.010 ha Occupied by plant, buildings, residential, welfare buildings and roads : 2.0 ha Work done under pmcp during the plan : 0.5 ha.	The above mentioned information seems to be correct.
9d	Scrutiny of Annual return on afforestation	500 saplings planted during the year 2022-23 with survival rate 80%	500 saplings planted and survival rate 60%.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No reject generation reported.	No reject generation. However overburden and waste 2654 cum generated
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Total 12477.870 t of cement grade produced during the year 2022-23.	ROM 12477.870 t of cement grade produced during the year .
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price Rs.3940.03 per tonne reported during the year 2022-23	It is a captive mine, Ex-mine price reported as Rs. 3940.03 /T
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets at the beginning of the year reported as Rs. 124371495 with net closing balance Rs.121054019.	Value of Fixed Assets at the beginning of the year reported as Rs. 124371495 ,Additions during the ;Rs. 5690160, Depreciation during the year Rs. 9007636 with net closing balance Rs.121054019.

9k Scrutiny of BACK HOE ; 2 As above.
Annual return on TIPPER : 4
mining ROCK DRILL
machineries (NON-ELEC.) :
 1
 WATER TANKER
 DOZER : 1
 OTHERS : 1

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