

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

Review and updation of Mining Plan REPORT

Bangalore regional office

Mine file No : KNT/GLB/LST-47/BNG

Mine code : 38KAR10013

- (i) Name of the Inspecting : **S21**) **H M Shivakumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Mr. Ashok Kumar Joshi, Mine Manager ,Mr. Manish Kumar
Official with
Designation
- (iv) Date of Inspection : 12/10/2022
- (v) Prev.inspection date : 08/03/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **CHITTAPUR**
- (b) **Registration NO.** : **IBM/378/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : KARNATAKA
District : GULBARGA
Village : CHITTAPUR
Taluka : CHITTAPUR
Post office :
Pin Code :
FAX No. : 022-66306510
E-mail : amitkumar.roy@lafarge.com
Phone : 022-67692595
- (f) Police Station : WADI
- (g) First opening date : 03/10/2016
- (h) Weekly day of rest : SUN
2. Address for : NUVOCO VISTAS CORPORATION LTD
correspondance : RVR TOWERS, HNO 6-3-1089/F,LEVEL 4,
RAJBHAVAN RD, SOMAJIGUDA HYDERBAD - 500082
3. (a) Lease Number : KAR1615
- (b) Lease area : 796.4
- (c) Period of lease : 50
- (d) Date of Expiry : 17/11/2058
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : NUVOCO VISTAS CORPORATION LTD
RVR TOWERS, HNO 6-3-1089/F,
LEVEL 4, RAJBHAVAN RD,
SOMAJIGUDA HYDERBAD
HYDERABAD TELANGANA
Phone:
FAX :

Owner : Mr. Jaya Kumar Krishnaswamy (Nominated Owner)
Equinox Business Park,
Tower -3, East Wing, 4th
Floor, Office Bandra Kurla
Complex, LBS Road, Kurla
West MUMBAI (SUBURBAN)
MAHARASHTRA
Phone: 022-66306511
FAX : 022-66306510

Agent : JOYDEEP CHATTERJEE
APM SQUARE, 2ND FLOOR, OPP.
IIPM P-6-3-
252/1/7/1/1, ADJ. TO. TAJ
DECCAN ERAMANZIL
COLONY, BANJARA HILLS
HYDERABAD TELANGANA
Phone: 040-23320016
FAX : 040-23320016

Mining Engineer

Name : VIJAYA KUMAR, Full Time
Qualification : B E- Mining Engineering
Appointment/ : 07/11/2019
Termination date

Geologist

Name : MANISH KUMAR MISHRA, Full Time
Qualification : M.SC GEOLOGY
Appointment/ : 10/01/2022
Termination date

Manager

Name : ASHOK KUMAR JOSHI
Qualification : FCC
Appointment/ : 10/01/2022
Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	23/03/2000
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	24/10/2000
	:	MP review under 17(1) MCR 2016	19/04/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	"2018-19 - 24 Nos. "2019-20 -24 Nos. "2020-21 -24 Nos. "2021-22 - 24 Nos.	"2018-19 - 15 Nos. "2019-20 -0 Nos. "2020-21 -0 Nos. "2021-22 - 24 Nos.	For the period from 2018-19 to 2022-23 -It was proposed for exploration with 96 core boreholes of total 3360 meters. However up to year 2021-2022 only 39 core bore holes are drilled of total 1477 meters. There is a back log of 57 core bore holes and 1883 meters of exploratory drilling from the approved proposals. Violation issued.
1b	Exploration over lease area for geological axis 1 or 2	Total 24 Nos. of Borehole proposed in 2021-22 to convert 129.2 Ha area in G1	Total 129.2 Ha area converted to G1 category in the reporting year.	129.2 Ha area has been converted to G1 category laterally. However, many of the exploratory boreholes have ended up in the mineral zone.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	M/s GEM Consultant, Raipur, CG, Expenditure - Rs 17.80/- Lakhs	As reported by the lessee in the AR- for 2021-2022.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Total 77 Nos. of Boreholes remaining to convert G1 axis.	Total 1000 meter Drilling proposed in 2022-23.	It is reported that PO is awarded to M/s ECOMEN Laboratories, Bangalore and work will commence during 2022-23.
1e	Balance reserve as on 01/04/20		221.128 Million Tons.	

1f	General remarks of inspecting officers on geology, exploration etc	Geological set-up in the lease area is as under - Top Soil - 0.2 to 3 meters (Varies hole to hole) Cement Grade Limestone - 0.2 to 74 meters (Varies hole to hole) Siliceous Limestone - 0.2 to 81 meters (Varies hole to hole) (Bottom waste rock). The proposed exploration for the period from 2018-19 to 2022-23 is not completed and there is back log reportedly due to COVID-19 for which violation is issued.
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Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E 715113 - E 715278 to N 1889080 - N1889254	E 715113 - E 715278 to N1889080 - N1889254	The development work is carried out within the proposed grid intervals.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top Soil Bench	Top Soil Bench maintained	Top Soil thickness in the mining lease varies - 0.2 to 3 meters and a small bench in top soil is maintained.
2c	Stripping ratio or ore to OB ratio	1 : 0.21	1 : 0.30	As reported.
2d	Quantity of topsoil generation in m3	1650 m3	4225 m3	As reported.
2e	Quantity of overburden generation in m3	3100 m3	2500 m3	As reported in the AR in tonnes.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The Limestone deposit is a flat bedded type and development of the pit is in tune with the proposed production quantity and type of the deposit.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	One pit measuring LxWxD approximately 184m*100m*5m.
3b	Quantity of ROM mineral production proposed	22000 MT	22000 MT	As per proposal.
3c	Recovery of sailable/usable mineral from ROM production	22000 MT	22000 MT	As per proposal.
3d	Quantity of mineral reject generation	NIL	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NIL (Cao above 35% & Sio2 less than 18%)	NIL (Cao above 35% & Sio2 less than 18%)	NIL (Cao <34% & >5%Mgo)
3f	Quantity of sub grade mineral generation.	NIL	NIL	No sub grade Mineral generation during the RY.
3g	Grade of sub grade mineral generation	-	-	No sub grade Mineral generation during the RY.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NO	NO	NIL

3j	Provision of drilling and blasting in mineral benches	Yes	Yes	Yes. Sandvik / Atlas Copco of 102 dia deployed.
3k	Provision of mining machineries in mineral benches	Excavator & Tipper Combination	Excavator & Tipper Combination	One excavator of 1.2 CUM and 3 dumpers of 15 ton capacity are deployed.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB 1-3 m Ore -6 m	OB 1.5 m Ore 5m	Yes suitable and working as per the proposals.
3m	Total area covered under excavation/pits	0.42 Ha	0.4Ha	Appears to be correct.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.21	1 : 0.30	As reported.
3o	Total area put in use under different heads at the end of year	Top Soil dump - 0.3 Ha OB Dump - 0.3 Ha	Top Soil-0.0Ha OB/Waste - 0.0 Ha	Stacked over previous dumps, no addition of new area
3p	Production of ROM mineral during the last five year period as applicable	2017-18 = 1000000 MT 2018-19 = 22000 MT 2019-20 = 22000 MT 2020-21 = 22000 MT 2021-22 = 22000 MT	2017-18 = 3600 MT 2018-19 = 22002 MT 2019-20 = 22008 MT 2020-21 = 22000 MT 2021-22 = 22000 MT	As reported in the Annual Returns.
3q	General remarks of inspecting officers on method of mining etc.			The mining is by open pit mechanized method with one single pit comprising one 1.5m bench in OB and a 5m bench in Mineral.

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)	Yes	Yes	Yes separate dumping of top soil and waste is done.
4b	Location of topsoil, OB and mineral reject dumps	Top Soil - E714913- E715053 TO N1889409- N1889461 OB - E714866- 714975 TO N1889173- N1889232	Top Soil - E714913- E715053 TO N1889409- N1889461 OB - E714866-714975 TO N1889173-N1889232	Dumping of top soil and waste is done in the respective locations as proposed.
4c	Number of dumps within lease area and outside of lease area	WML - 3 nos. OML - Nil	WML - 3 nos. OML - Nil	One Waste Dump Two Top Soil Dumps
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Top Soil - E714913- E715053 TO N1889409- N1889461 OB - E714866- 714975 TO N1889173- N1889232	Top Soil - E714913- E715053 TO N1889409- N1889461 OB - E714866-714975 TO N1889173-N1889232	As the entire Mining lease area is mineralized, the temporary dumping is proposed and made within the UPL.
4e	Number of active and alive dumps.	Active -3	Active -3	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	There are no proposals of construction of RW and GD. However as a protective measure garland drain is made all along the dumps.
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	RW-Nil GD (approx. 1300m)
4j	Number of settling ponds	NA	NA	

4k	Specific comments of inspecting officer on waste dump management	A small Waste dumps is generated and suitable protective measures are taken by constructing garland drain and plantations on inactive part of the dump.
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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.	NA	NA	Mine is Opened on 3rd Oct 2016 and is in very initial stage of development, and no part of the mine pit is matured for backfilling. Top Soil generated is being utilized for Green Belt development.
5b	Area under backfilling of mined out area	NA	NA	Mine is Opened on 3rd Oct 2016 and is in very initial stage of development, and no part of the mine pit is matured for backfilling. Top Soil generated is being utilized for Green Belt development.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	Mine is Opened on 3rd Oct 2016 and is in very initial stage of development, and no part of the mine pit is matured for backfilling. Top Soil generated is being utilized for Green Belt development.

5d	Total area fully reclaimed and rehabilitated	NA	NA	Mine is Opened on 3rd Oct 2016 and is in very initial stage of development, and no part of the mine pit is matured for backfilling. Top Soil generated is being utilized for Green Belt development.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mine is Opened on 3rd Oct 2016 and is in very initial stage of development, and no part of the mine pit is matured for backfilling. Top Soil generated being utilized for Green Belt development.

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	Annual PMCP report submitted before in time along with the annual return.
6b	Area available for rehabilitation (ha) .	NIL	NIL	NIL
6c	afforestation done (ha).	0.5	0.5	Along ML boundary in safety zone.
6d	No. of saplings planted during the year	700	700	It is reported that total 876 Nos. of saplings planted including 176 OML and appears to be correct.

6e	Cumulative no .of plants	-	5658	4254 Nos. Within the ML & 1404 Nos. Outside the ML is reported and appears to be correct.
6f	Any other method of rehabilitation	NO	NO	NO
6g	Cost incurred on watch and care during the year	-	Rs 116666/-	As reported and appears to be in order.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	NA	NA	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	NIL

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed as per law	Complied	Periodic monitoring is being done as per norms and reports are being submitted to respective authorities.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Mine is Opened on 3rd Oct 2016 and is in very initial stage of development. As such minor progressive closure operations are satisfactorily carried out. Plantation, Environmental monitoring etc., carried out as proposed and statutes.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	YES	YES	Till date the entire mineral produced is stacked within the lease area and no dispatch is done as their captive cement plant is not yet commissioned.

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	No grade wise sorting is done yet and entire mineral produced till date is stacked within the ML area.
7c	Different grade of mineral sorted out at mines.	Cement Grade	Cement Grade	The entire production is of cement grade.
7d	Any beneficiation process at mines .	NO	NO	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			There is no sub grade mineral generation in the lease. However, Mineral conservation aspect is taken care by advancing the overburden (waste) bench and its removal and then entire blasted mineral is stacked within the ML.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Complied	Top soil is utilized for plantation purpose and also stacked separately for use in future plantations.
8b	Concurrent use or storage of topsoil	YES	Separately removed and dumped at designated place as per MP, some part of Top Soil Utilized for Green belt development along ML Boundary (7.5 Meter width).	Both concurrent use and storage of topsoil is done in the ML.

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	YES	YES	For Top Soil, OB & Mineral stocks are maintained separately as per proposals.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NO	NO	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NO	NO	Do not arise as no pits are matured and one small waste dump is active with temporary dumping proposals.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	YES	YES	Additional plantation done outside the lease area as mentioned above.
8g	Survival rate	70%	95%	Appears to be correct.
8h	Water sprinkling on roads to control airborne dust	YES	YES	One water tanker is deployed in the mine for the purpose.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetics in and around the mine is maintained well with good plantation carried out by the lessee as well as natural vegetation in the majority non degraded land within and outside the Mining lease.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Returns Submitted as on 12.10.2022 Monthly Return - For Sep 2022 Annual Returns - For 2021-22	All returns submitted within the timelines.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer - Vijaya Kumar Geologist - Alok Dwivedi Manager - Ashok Kumar Joshi	All the statutory officials were present during the Inspection.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Pits -4.99 Ha Reclaimed area - 0 Ha Dumps -0.764 Ha	The pit area reflected in AR is in excess of the actual dimension; however dump dimension is in order.
9d	Scrutiny of Annual return on afforestation	Afforestation - 700 Nos.	Appears to be correct.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject - 0 MT	No Mineral reject is generated or reflected.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM - 22000 MT	As per the proposals
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-Mine Price - 500.24/- Production Cost - 312.13/-	In order.
9h	Scrutiny of Annual return on fixed assets	Fixed Assets - Rs 250942500/-	Appears to be in order.
9k	Scrutiny of Annual return on mining machineries	Excavator - 1 No. Tipper - 1 No. Water Tanker - 1 No.	The Mining machineries reported are deployed at Mines.

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)	21/10/2022		MCDR17 Rule 11(4)	21/10/2022	
MCDR17 Rule 11(4)	21/10/2022		MCDR17 Rule 45(7)	21/10/2022	30/01/2023
MCDR17 Rule 45(7)(a)	21/10/2022		MCDR17 Rule 11(1)	21/10/2022	

Date :

(H M Shivakumar)

Indian Bureau of Mines