# MCDR INSPECTION REPORT

### GENERAL

Sr. No.	Particulars	Details	
1	Name of the Mine	Risda-Kukurdih Limestone Mine	
1a	Name of Inspecting officer with Designation	Rajesh Kumar Das, SrACOM,	
	Name of Accompanying person,	Shri Ajay Khare, Manager Mine	
	Date of Inspection	24.11.2020	
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	395.05 ha, Non forest	
3	Mine code	38CHG19001	
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/16679/2013	
5	Name of the lessee, Address, phone, email and fax number	NU Vista Limited	
6	Village	Risda	
7	Taluka/Mandal	Baloda Bazar	
8	District	Baloda Bazar-Bhatapara	
9	Pin code	493332	
10	State	Chhattisgarh	
11	Post office	Risda	
12	Nearest police station	Baloda Bazar	
13	Nearest Railway station	Bhatapara	
14	Date of Grant of Mining Lease	12.11.2007	
15	Date of Execution	08.09.2009	
16	Date of opening of Mine	07.08.2013	
17	Date of first Renewal, if applicable and its period & expiry	N.A.	
18	Date of second Renewal, if applicable and its period & expiry	N.A.	
19	Date of submission of renewal application if Mining	N.A.	
	Operations are continuing under deemed extension		
20	Name of the Nominated Owner with Address, phone, email,	Shri Vivek Chawla,	
	fax number and date of appointment	Address- Acropolis Mall, 15 <sup>th</sup> Floor,	
		Rajdanga Road, Kasba, EM Bypass, Kolkata-	
		700107. E-mail-	
		vivek.chawla@nuvoco.com	
21	Name of the Mine Agent with Address, phone, email, fax	Date of appointment 04.02.2017 Shri Anant Kumar Mahobe,	
21	number and date of appointment	Address- NU Vista Limited,	
	number and date of appointment	Village: Risda, Suhela Road, District: Baloda	
		Bazar-Bhatapara (Chhattisgarh).	
		E-mail: anant.mahobe@nuvoco.com	
		Date of appointment- 09.04.2019	
22	Name of the Mines Manager with Address, phone, email, fax	Shri Ajay Khare,	
	number and date of appointment in mines	Address- NU Vista Limited,	
		Village: Risda, Suhela Road, District: Baloda	
		Bazar- Bhatapara (Chhattisgarh).	
		E-mail: ajay.khare@nuvoco.com	
		Phone No. 7247725868	
23	Name of the Mining Engineer, Qualification and total	Date of appointment-15.05.2020 Shri Jaiprakash Dwevedi,	
23	experience with Address, phone, email, fax number and date	Address- NU Vista Limited,	
	of appointment in mine	Village: Risda, Suhela Road, District: Baloda	
	or appointment in mine	Bazar-Bhatapara (Chhattisgarh).	
		E-mail: Jaiprakash.dwevedi@nuvoco.com	
		Phone No. 7583807064.	
		Date of appointment 25.05.2017	

24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Manoj Rajnarayan Kushwaha Address- NU Vista Limited, Village: Risda, Suhela Road, District: Baloda Bazar- Bhatapara (Chhattisgarh). E-mail: manoj.kushwaha@nuvoco.com Phone no. 7247716565 Date of appointment 20.08.2018.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Letter No. Balodaba/Chup/Khyo-1226/2019 dated 10.01.2020
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	19.01.2015
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
30	Captive/Non Captive	Captive
31	Environment Clearance	Dated 6.04.2018 for 5.5 MTPA

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

Sr. No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	34	25	20 nos-2018-19 & 14 proposed in 2019-20
1b	Exploration over lease area for Geological axis 1 or 2.	34	25	-
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Gem Consultant Drilling 34 no's of bore holes	1670m (25 drill hole done)	09 drill holes left due to COVID-19 lockdown.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as on 31.03.2020	<b>UNFC Code 111&amp;121,122</b> : 225.624.20 million Tons	Reserve as on 31.03.2020 - 225.624 million tonnes	MP approved on10.01.2020 and as per approved document reserve given 227.20 million tons
1f	General remarks of inspecting officer on geology, exploration etc.	The area is small part of Chhattisgarh basin and comprises of dolomite, limestone and shale of Chandi formation of Raipur group. The general trend of out crop is in NE-SW direction. The beds almost horizontal as exemplified by detail mapping and drilling The lease area broadly drilled in 150X150m intervals and drilled 191 bore holes of approx 7563 meter but still few borehole terminate in limestone therefore lessee proposed extra bore hole.In 2019-20 additional 24 boreholes of approx 1355 meter drilled but still drilling is not done as per proposal and 10 more holes left for drilling and due to corona reason drilling stopped.		

### **EXPLORATION**

### DEVELOPMENT

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	North block: N2393685- N2394187 & E615302- E615836,South block: N2393796-N2393992 & E614460-E615268	Broadly as per proposal.	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	One bench in top Soil 1- 3 mtrs, OB- 3.5 mtrs Two Limestone benches- 10 mtrs	One bench in top Soil 1-3 mtrs, OB- 3.5 mtrs Two Limestone benches-10 mtrs	2019-2020
2c	Stripping ratio or ore to OB ratio	1 : 0.29	1:0.14	
2d	Quantity of topsoil generation in m <sup>3</sup>	603,270m <sup>3</sup>	234,199m <sup>3</sup>	
2e	Quantity of overburden generation in $m^3$	261,750m <sup>3</sup>	256,295m <sup>3</sup>	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The top soil and OB/IB and production done the proposal.	•	

### **EXPLOITATION**

Sr. No.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	3 Nos	3 Nos	2019-20
3b	Quantity of ROM mineral production proposed	6.5 million tonnes	4.842million tonnes	EC clearance was only for 5.5 Million Ton.
3c	Recovery of salable/usable mineral from ROM production	90%	94.65%	
3d	Quantity of mineral reject generation	Screen reject_550000 tons	Screen reject_215422tons	
3e	Grade of mineral reject generation and threshold value declared	Threshold value CaO >34%	Mineral reject CaO 25 to 30 %	
3f	Quantity of sub-grade mineral generation	N.A.	N.A.	
3g	Grade of sub-grade mineral generation	N.A.	N.A.	
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized	Mechanized	

3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	N.A.	N.A.	
3ј	Provision of drilling & blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	1-5m & 10m	1-5m & 10m	2019-2020
3m	Total area covered under excavation/pits	108.30 ha	65.540ha	
3n	Ore to OB ratio for the pit/mine during the year	1: 0.29	1:0.14	
30	Total area put in use under different heads at the end of year	<ul> <li>i) Total Exploitation area-108.30ha</li> <li>ii)Road, plant ,buildings, water storage tank -15.27ha</li> <li>iii) Dump area (waste+ screen) =11.5ha</li> </ul>	i)Total exploitation area -65.540 ha ii)Road, plant ,buildings -5.72ha iii) Dump area (waste screen) =5.30 ha	
3p	Production of ROM mineral during last five-year period, as applicable	Last Five year proposal 2014-15_0.5 MT 2015-16_0.5 MT 2016-17_3.17 Million tons 2017-18_5.5 Million tons 2018-19_5.5 Million Tonnes 2019-2020_6.5 million tonnes Total Proposed Production- <b>21.67</b> Million Tons	Last Five year 2014-15_0.0 MT 2015-16_0.0 MT 2016-17_0.99 Million tons 2017-18_3.169 Million tons 2018-19- 4.79 Million tonnes 2019- 2020_4.627million tonnes Total production- 13.576 Million Tons	
3q	General remarks of inspecting officer on method of mining etc.	The method of mining is is 10 meters and broadly	opencast using HEMM	and bench height in ore

### SOLID WASTE MANAGEMENT-DUMPING

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral	Yes	Yes	2019-2020
	reject (Rule 32, 33)			

4b	Location of topsoil, OB & mineral reject dumps	<b>Location of OB-</b> E614580-614466           N2393114-2392935           mineral Reject-           E614334-614533           N2393235-2393120	Broadly as per proposal.	
4c	Number of dumps within lease area and outside lease area	4 no's	4 no's	Within the lease
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	SW & E of Lease area	SW & E of Lease area.	
4e	Number of active & alive dumps	2	2	
4f	Number of dead dumps	1	1	
4g	Number of dumps stabilized	1	1	
4h	Whether Retaining wall or garland drain all along dumps are there	yes	yes	Toe-bund and garland drain made along the dump
4i	Length of Toe-bund or garland drain all along dump	Toe-bund 1320m Garland 1335m	Toe-bund 1329 Garland 1345	along the dump area
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management	No comments	1	

#### SOLID WASTE MANAGEMENT-BACKFILLING-N.A.

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting	N.A	N.A.	
5b	Area under backfilling of mined out area	N.A	N.A.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	N.A	N.A.	
5d	Total area fully reclaimed & rehabilitated	N.A	N.A.	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The lease area is new and not matured for backfilling.		

### **PROGRESSIVE MINE CLOSURE PLAN**

S.N.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E (2). Details should be given in the format as given in Annexure-20.	Submission of report as per Rule	Submitted PMCP report 2019-2020 on dated 29.05.2020.	

6b	<ul> <li>Management of worked/mined out benches</li> <li>i) Area available for rehabilitation (ha)</li> <li>ii) Afforestation done (ha)</li> <li>iii) No. of saplings planted during the year</li> <li>iv) Cumulative no. of plants</li> <li>v) Any other specific method of 2019-20 rehabilitation</li> <li>vi) Cost incurred on watch &amp; care during the year</li> </ul>	<ul> <li>i. Not applicable</li> <li>ii. 1.94 ha</li> <li>iii. 2156</li> <li>iv. 61781</li> <li>v. Not applicable</li> <li>vi. INR 291,060.00</li> </ul>	<ul> <li>i. Not applicable</li> <li>ii. 2.50ha</li> <li>iii.5000</li> <li>iv.83535</li> <li>v. Not applicable</li> <li>vi.657,000.00</li> </ul>
6c	<ul> <li>Compliance on reclamation and rehabilitation by backfilling</li> <li>i) Voids available for backfilling (L *B * D)</li> <li>ii) Void filled by waste/tailings</li> <li>iii) Afforestation on the backfilled area</li> <li>iv) Rehabilitation by making water reservoir</li> <li>v) Any other specific means</li> </ul>	i) N.A.	i) N.A.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) N.A.	i) N.A.
6e	Compliance of Environmental monitoring (core zone & buffer zone)		Complied
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Br	roadly as per proposal.

### MINERAL CONSERVATION

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Mineral dispatch	ROM Mineral dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Blending from different area as per required grade	As per Proposal	
7c	Different grade of mineral sorted out at mines	N.A.	N.A.	
7d	Any beneficiation process at mines	Screen	Screen	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Broadly the entire Ro clay inclusion is there	5	area of top benches where

### ENVIRONMENT

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Separate stacking & used for Plantation.	
8b	Concurrent use or storage of topsoil	Plantation	Plantation	

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	N.A.	N.A.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	N.A.	N.A.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	61781nos plantation	83535	
8g	Survival rate	80%	70%	
8h	Water sprinkling on roads to control airborne dust	By water tanker	By water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The lessee is taking care of all environmental preventive measures as per statute i.e Air, Water, Noise, ground vibration monitoring. The plantation is done and dust suppression water sprinkling is done on regular basis. There is no adverse impact observed during mine visit on aesthetic beauty in and around mines area.		

## **COMPLIANCE OF RULE 45**

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Annual Return for 2019-20 submitted. Monthly return submitted till oct' 2020.		
S.N.	Item	Details GIVEN in A.R.	2019-2020	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Jaiprakash Dwiedi ( Mining Engineer) Manoj Kushwaha (Mining Geologist)	Jaiprakash Dwiedi ( Mining Engineer) Manoj Kushwaha (Mining Geologist)	
		Ajay Khare (Mine Manager)	Ajay Khare (Mine Manager)	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	<ul> <li>i) Total Exploitation area- 108.30ha</li> <li>ii)Road, plant ,buildings, water storage tank - 15.27ha</li> <li>iii) Dump area (waste+ screen) =11.5ha</li> </ul>	i)Total exploitation area -65.540 ha ii)Road, plant ,buildings -5.72ha iii) Dump area (waste screen) =5.30 ha	
9d	Scrutiny of Annual return on afforestation	Given		

9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	468023 tonnes	215422 tonnes	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM –Nil	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Nil	Rs. 231.14	
9i	Scrutiny of Annual return on fixed assets	Annual Return 2019-2020	Rs.2816533890/-	
9k	Scrutiny of Annual return on mining machineries	Machineries list furnished		

**Details of violations observed during current inspection and compliance position of earlier violation pointed out:-** During Last inspection the violation issued mostly complied only the violation regarding exploration is still continuing due to Covid-19 and lock down but now it is under process and therefore no further action has been initiated.

#### (Rajesh Kumar Das, Senior Assistant Controller of Mines)