

MCDR INSPECTION REPORT**1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation	Mr. Rajesh Kumar Das Sr. Asst. Controller of Mines-IBM
2	Date of inspection & Accompanying Person	25.06.2021 & Shri Ashok Singh, Manager Mine & Head
3	Name of the Mine	Sonadih Limestone Mines
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest land : NIL Non forest Land : 444.763 ha Total lease area : 444.763 Ha
5	Minecode	38MPR28010
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/378/2011
7	Name of the lessee, Address, phone, email and fax number	Nuvoco Vistas Corp Ltd Sonadih Cement Plant Nuvoco Vistas Corp. Limited PO-Raseda, Tehsil-Balodabazar District-Balodabazar-Bhatapara State-Chhattisgarh, Pin code- 493332 Phone- 07727-72226 Fax-07727-72227 Email-ramesh.warke@nuvoco.in
8	Village	Raseda
8	Taluka/Mandal /District	Balodabazar
10	State	Chhattisgarh
11	Post office & PIN	493332
12	Nearest police station	Balodabazar
13	Nearest Railway station	Bhatapara
14	Date of Grant of Mining Lease	20 Dec''1985
15	Date of Execution	15 Jan''1986
16	Date of opening of Mine	12 Dec''1989
17	Date of first Renewal, if applicable and its period & expiry	23 June''2010 For the period 15.01.2006 to 14.01.2026 (20 years)
18	Date of second Renewal, if applicable and its period & expiry	17 April''2017 For the period 15.01.2026 to 14.01.2036 (10 years)
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Name : Mr. Jayakumar Krishnaswamy Designation : Managing Director Date of appointment : 01.11.2018 Address : Equinox Business Park (Peninsula Techno Park), Tower 3, East Wing, 4th Floor, Off Bandra- Kurla Complex, LBS Marg, Kurla- West , Mumbai, Maharashtra- 400070 +91 (0) 22 61202628

21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Name : Mr Ramesh Warke Designation : Sr. Vice President Date of appointment : 01.01.2018 Address : Sonadih Limestone Mines PO-Raseda Distt: Balodabazar-Bhatapra Chhattisgarh-493332 +91-7727272226
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Name : Mr Ashok Kumar Singh Designation : GM Qualification : BE_Mining Date of appointment : 22.07.2019 Work Experience : >25 years Address : Sonadih Limestone Mines PO-Raseda Distt: Balodabazar-Bhatapra Chhattisgarh-493332 +91-9893497184

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Name : Mr Kranti Dewangan Designation : Manager Qualification : B.E. Mining Engineering Date of appointment : 15.10.2012 Work Experience : 13+ years Address : Sonadih Limestone Mines PO-Raseda Distt: Balodabazar-Bhatapra Chhattisgarh-493332 +91-9755015344
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Name : Mr Rajesh Singh Designation : DGM Qualification : M Tech_Applied Geology Date of appointment : 01.09.2017 Work Experience : 20+ Years Address : Sonadih Limestone Mines PO-Raseda Distt: Balodabazar-Bhatapra Chhattisgarh-493332 +91-9163323296
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modified Mining Plan approval letter no: Balodabazar/chu.pa/kha yo-1130/2017-Raipur. Dated: 05.01.2018 For the period up to 31-March-2021
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Opencast, Underground)	Opencast

29	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
30	Captive/Non Captive	Captive
32	Existing EC Limit	5.5 million tons
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Rs 80281200/- upto 31.03.2026

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	0	0	-
1b	Exploration over lease area for Geological axis 1 or 2.	16	Nil	44 borehole explored in previous year(2019-20 w.r.t proposal of 08 bore holes).
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as on 01.04.2021	14.93	21.92	
1f	General remarks of inspecting officer on geology, exploration etc.	The Deposit belongs to Chandi Limestone formation of Raipur Group of Chhattisgarh supergroup. The strata having gentle dip of 5-6°. The area is broadly explored in G1.		

2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Western Part	Western part	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Nil	NA	OB
2c	Stripping ratio or ore to OB ratio	1:0.013	1:0.024	
2d	Quantity of topsoil generation in m ³	NIL	NIL	
2e	Quantity of overburden generation in m ³	52000 CuM	70160 CuM	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development is broadly within proposed area.		

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
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3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	5500000 MT	4133015 MT	
3c	Recovery of saleable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	135000 Tonnes	25740 Tonnes	
3e	Grade of mineral reject generation and threshold value declared	CaO < 34% MgO > 5%	CaO < 34% MgO > 5%	
3f	Quantity of sub-grade mineral generation	NIL	NIL	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method of working for blending high grade and sub grade mineral using multiple excavators	Mechanized method of working for blending high grade and sub grade mineral using multiple excavators	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	Yes Spacing x Burden 4.5(m) x 3.5(m) Blasting – Non Electrical Sequential firing with SME Drill – 115 mm	Yes Broadly as per proposal	
3k	Provision of mining machineries in mineral benches	Shovel – 4 Nos. Dumper- 12 Nos.	Shovel – 4 Nos. Dumper- 12 Nos.	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes Proposed – 8-10 M	Yes Proposed – 8-10 M	
3m	Total area covered under excavation/pits	-	126.716 Hect	
3n	Ore to OB ratio for the pit/mine during the year	1:0.015	1:0.024	
3o	Total area put in use under different heads at the end of year	249.497 Ha (Upto 31.03.2021)	216.26 Ha (Upto 31.03.2021)	
3p	Production of ROM mineral during last five-year period, as applicable (Tons)	Yr 2016-17: 5500000 Yr 2017-18: 4200000 Yr 2018-19: 5500000 Yr 2019-20: 5500000 Yr 2020-21: 5500000	Yr 2016-17: 3416172 Yr 2017-18: 3793870 Yr 2018-19: 4302100 Yr 2019-20: 3960813 Yr 2020-21: 4133015	
3q	General remarks of inspecting officer on method of mining	The method of mining is opencast method using Shovel-Dumper combination and broadly as per proposal.		

etc.	
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4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject(waste) (Rule 32, 33)	Backfilling: E624810 to E624878 N2405013 to N2405127	Backfilling: Broadly within proposed area.	
4b	Location of topsoil, OB & mineral reject dumps	No dumping proposed	No dumping proposed	
4c	Number of dumps within lease area and outside lease area	Inside – 0 Outside – 0	Inside – 0 Outside – 0	2 old existing dumps
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Backfilling: E624810 to E624878 N2405013 to N2405127	Backfilling: E624790 to E624860 N2405185 to N2405095 & E624580 to E624745 N240970 to N2405020	
4e	Number of active & alive dumps	OB – 0 Waste – 0	OB – 0 Waste – 0	
4f	Number of dead dumps	0	0	
4g	Number of dumps stabilised	0	0	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	Yes	Yes	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management	The waste is used for backfilling and reclamation work.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Backfilling will be done at mined out area	Backfilling done at mined out area	
5b	Area under backfilling of mined out area	Not mentioned specifically yearwise	1.77 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No topsoil generation	No topsoil generated	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Total 12.300 Ha. (Protective Bund Along the River) done earlier. In last year backfilling is done near view point.		

6.0 Progressive Mine Closure Plan

SN	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.	*Yes *Plantation – 2500 *Land to be Degraded- 9.05 Ha *Land to be reclaimed- Nil *OB Quantity – 52000 M3	*To be send *Plantation – 3000 *Land Degraded- 5.167 Ha *Land to be reclaimed- Nil *OB Quantity – 70160 M3	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No.of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	i) NIL ii) 88.1 Hect iii) 2500 saplings iv) NA	i) NIL ii) 87.3 Hect iii) 3000 saplings iv) 6.61 lakhs	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	i) 200x300x16 ii) NIL iii) NIL iv) NA	i) 200x300x16 ii) 200x150x4 iii) NIL iv) NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) Nil ii) Nil iii) Nil	i) Nil ii) Nil iii) Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air- Wet Drilling Water-Check Dams Noise-Control Blasting In house environment monitoring cell.	Air- Within Permissible Limit Water- Within Permissible Limit Noise- Within Permissible Limit	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Nil		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within	Material blended through lifting from	Operating 4 benches	

	lease area	different benches.		
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised	Mechanised	
7c	Different grade of mineral sorted out at mines	YES	YES	CaO and MgO variation present in different benches.
7d	Any beneficiation process at mines	NO	NO	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No beneficiation done only blending of limestone done of various benches of various grade to get desired grade of limestone		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Nil	Nil	
8b	Concurrent use or storage of topsoil	NA	NA	
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	YES	YES	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Plantation Proposed : WML: 2500 OML: Nil	Plantation WML : 3000 OML : 1000	Plantation WML : 375375 OML : 286156
8g	Survival rate	80 %	78%	
8h	Water sprinkling on roads to control airborne dust	YES	YES	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	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.		

9.0 Compliance of Rule 45

S.	Item	COMMENTS	Remarks
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N.			
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – May'2021 A.R. submitted upto- 2020-21	

S. N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer-Shri Kranti Kumar Devangan, Geologist- Shri Rajesh Singh, Manager- Shri Ashok Singh	During mine visit all of them accompanying	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	131.8 ha. area under O/C working, waste disposal- 6.627ha, infrastructure and plant 61.45 ha.	Broadly as per field position	
9d	Scrutiny of Annual return on afforestation	3000 nos sapling within lease		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	25740 tons , grade not mentioned		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	ROM stock of more than lack tons exist	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price & production cost-265.04 Rs reported		
9i	Scrutiny of Annual return on fixed assets	Rs14742694089/- Reported		
9k	Scrutiny of Annual return on mining machineries	Shovel of 5.1 m ³ 3 nos, Dumper 35 tons of 12 nos, Drill M/c 112 mm 2 nos and in addition Grader, backhoe, tipper, etc		

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

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10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-The Last inspection was carried out by Shri R.N.Mishra,SMG on 03.12.2019 and during that inspection no violation pointed out. During present inspection The Rule 11(1), 35(2), 37(2) & 45(5) (c) found Violated.


31/07/2021

(Rajesh Kumar Das, Senior Assistant Controller of Mines)