

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	File No.	38CHG 06002
1	Name of inspecting officer & designation	Shri Debadurllav Dash , Regional Mining Geologist Indian Bureau of Mines, Raipur
2	Accompanying Mine Official with Designation	Ritesh Kaimal (HOD- Mines), Ravikant Yadav Mines Manager.
3	Date of Last Inspection & Officer	
4	Date of inspection	09.03.2023
5	Name of the Mine	Arasmeta Limestone Mines Lease no 3 (46.292 Hectare)
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease area 46.292 Hectare, Non- Forest Land 46.292 Hectare, and Forest Land- Nil
7	Mine Code	38CHG06002
8	IBM Registration Number under rule 45 of MCDR, 1988	IBM/378/2011
9	Name of the lessee, Address, phone, email and fax number	M/s Nuvoco Vistas Corporation Limited (Formerly Lafarge India Limited) Equinox Business Park, Tower 3, East Wing, 4th Floor, LBS Road, Kurla (West), Mumbai – 400 070 Phone: +91 (0) 22- 67692500 Fax:+91 (0) 22 – 66306510 Email: jayakumar.krishnaswamy@nuvoco.com
10	Village	Arasmeta
11	Taluka / Mandal / District	Tehsil- Akaltra, District- Janjgir Champa
12	State	Chhattisgarh
13	Post office & PIN	Gopalnagar , 495663
14	Nearest police station	Mulmula
15	Nearest Railway station	Akaltra
16	Date of Grant of Mining Lease	27/12/1996
17	Date of Execution	18/06/1997
18	Date of opening of Mine	19/11/2003
19	Date of first Renewal, if applicable and its period & expiry	18/06/2017 to 17/06/2047 (30 years), As per section 8A of MMDR Amendment Act, 2015, Mining Lease Period has been extended for 50years. Supplementary lease agreement for extended period has been made on 29/12/2018 & date of registration 25/03/2019
20	Date of second Renewal, if applicable and its period & expiry	Not applicable.

21	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable.
22	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Nominated owner: Mr. Jayakumar Krishnaswamy M/s Nuvoco vistas Corporation limited, Equinox Business Park Tower 3, East Wing 4th Floor, Bandra -Kurla Complex, LBS road, Kurla West Mumbai-400070, India .Phone no 022-66306511, email-jayakumar.krishnaswamy@nuvoco.com , Website-www.nuvoco.com, Date of appointment-28/03/2019
23	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Manoj Kumar Agrawal, Agent & Plant Head Arasmeta Cement Plant of M/s Nuvoco vistas corporation , P.O-Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa, Chhattisgarh, Mob no 9903316020-, Fax No -07817-234237,234286 Mail ID- manoj.agrawal@nuvoco.com , Date of appointment- 01/03/2022
24	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Ravikant Yadav Arasmeta Cement Plant of M/s Nuvoco vistas corporation limited, P.O-Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa, Chhattisgarh, Phone no-7024143400 Mail ID- ravikant.yadav@nuvoco.com - Date of appointment-20/10/2021
25	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Ravikant Yadav Arasmeta Cement Plant of M/s Nuvoco vistas corporation limited, P.O-Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa, Chhattisgarh, Phone no-7024143400 Mail ID- ravikant.yadav@nuvoco.com - Date of appointment-20/10/2021
26	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Previous Geologist resigned from service Appointment letter issued to candidate, he will join within a week. (Enclosed Email Copy)
27	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modified Mining plan approved vide letter no. Janjgir/Chup/Khayo/1243/2020 dated 28/10/2020 Proposal Period: 2017-18 to 2021-22 Review Mining plan approved vide letter no. Janjgir-Champa/Chup/Khayo/1298/2021-Raipur dated 07/01/2022 Proposal Period: 2022-23 to 2026-27
28	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
29	Mineral(s) granted in lease and proved for mining	Limestone
30	Method of Mining(Opencast, Underground)	Opencast

31	Category (Fully Mechanised, Others or Manual)	Fully Mechanized
32	Captive/Non Captive	captive
33	Existing EC Limit and validity	Under Process Limestone 84000.00 Metric Tonnes CTE (Consent to Established) obtained from Chhattisgarh Environment Conservation Board, Raipur vide letter no. 2536/B-190/TS/CECB/2003 Raipur dated 14/07/2003
34	Status of Financial Assurance as per rule 27 of MCDR, 2017	Rs. 13979500/- vide BG no. 13940100015898 dated 23/12/2021, Validity: 31/03/2027

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

1.0 Exploration

SN	Item	Proposals 2021-22	Actual work 2021-22	Remarks
1a	Backlog of previous year	06 nos of bore hole	Nil	Delay cited as due to rainy season. PO awarded to the Gem Consultant of Rs 1121000. Violation of Rule 11(1) of MCDR, 2017 is pointed out.
1b	Exploration over lease area for Geological axis 1 or 2.	Not specific.	G1 – 24.12 Ha G2 – Nil G3 – 19.302 Ha Non Mineralized – 2.87	As Approved Review of Mining plan
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not specific.	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	22.172 Ha area to be explored (46.292-G1 Area 24.12=19.302 Ha)	Nil	As per Review of mining plan 22.172 Ha area to be explored (46.292-G1 Area 24.12=19.302 Ha)

1e	Balance reserves as on 01.04.2022 (in Million Tonnes)	Under (111): 8.111 Million Tonnes Under (121): 0.93 Million Tonnes Under (211): 2.30 Million Tonnes Under (221): 2.12 Million Tonnes	Under (111): 8.80 Million Tonnes Under (121): 0.93 Million Tonnes Under (211): 2.30 Million Tonnes Under (221): 2.12 Million Tonnes	Figures furnished under actual area as per Annual Return. No depletion ore as no mining operations have been carried out.
1f	General remarks of inspecting officer on geology, exploration etc.	In the lease area, occurrence of cement grade Limestone has been proved by drilling of 28 core drill holes with total meterage of 585.75 m under G1 scale of exploration. 2.87 ha area have been proved non-mineralized. 19.302 ha area is yet to be covered under G1 scale of exploration. During the year 2021-22, exploration in form of 06 boreholes was proposed against which no borehole has been drilled. Violation of Rule 11(1) of MCDR, 2017 is pointed.		

2.0 Development

SN	Item	Proposals 2021-22	Actual work 2021-22	Remarks
2a	Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location)	In between coordinates 636838 E to 637249 E & 2428115 N to 2427877 N	Nil	No mining operations has been carried out due to lack environmental; clearance.
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Topsoil/OB: 01 no. Ore/Mineral: 03 nos.	Nil	-do-
2c	Stripping ratio or ore to OB ratio	1:1.20	Nil	-do-
2d	Quantity of topsoil generation in m ³	88588.5 CuM	Nil	-do-
2e	Quantity of overburden generation in MT	287031.33 MT	NA	-do-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	No production & Development has been done during F.Y.2021-22 due to no environment clearance.		

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01 no.	Nil	No mining operations carried out due to lack of EC clearance.

3b	Quantity of ROM mineral production proposed	1000360 Metric Tonnes	Nil	-do-
3c	Recovery of salable/usable mineral from ROM production	72%	Nil	-do-
3d	Quantity of mineral reject generation	No mineral reject will be generated during MMP Period.	Not applicable.	-do-
3e	Grade of mineral reject generation and threshold value declared	Not mentioned in the approved document	Not applicable.	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	CaO 42.85% ,MgO: 3%, SiO2- 12.46%	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized sorting of limestone from shale and soil by machine	Nil	-do-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation study has been proposed in the approved document during MMP period.	NA	
3j	Provision of drilling & blasting in mineral benches	Dia.: 102 mm to 115 mm Spacing: 4 m to 5.0 m Burden: 2.0 m to 3.0 m Depth: 7.0 m	Nil	-do-
3k	Provision of mining machineries in mineral benches	1. Hydraulic Excavator 02 no. with	Nil	-do-

		<p>CuM to 3.4 CuM bucket capacity 2. Dozer 01 no. 3. Dumpers 07 nos, capacity 35 tonner 4. Tipper 7 (20 tonners) 5. Drilling Machine 03 no. with 110 mm dia.capacity</p>		
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	<p>Topsoil/OB: 1.0 m to 3.0 m Ore/Mineral: 7.0 m)</p>	-do-	-do-
3m	Total area covered under excavation/pits	4.85 Ha. up to end of MMP period	-do-	-do-
3n	Ore to OB ratio for the pit/mine during the year	1:1.20	-do-	-do-
3o	Total area put in use under different heads at the end of year	<p>Pit- 4.85 Ha. Waste/reject- 1.15 Ha., Soil -1.69 Ha, Infrastructure-0.109 Ha, Road 1.05 Ha Up to end of MMP period</p>	-do-	-do-
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	<p>Yr- 2017-18: 415521.00 Metric Tonnes Yr- 2018-19: 500000.00 Metric Tonnes Yr- 2019-20: 500000.00 Metric Tonnes Yr- 2020-21- 80706 Metric tones Yr- 2021-22- 1000360 Metric tones</p>	<p>Yr- 2017-18: NIL Yr- 2018-19: NIL Yr- 2019-20: NIL Yr- 2020-21- Nil Yr- 2021-22- Nil</p>	-do-
3q	General remarks of inspecting officer on method of mining etc.	The mine is yet to be start operation as the lease is not having valid EC.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Proposal for separate dumping of Topsoil, Overburden and Mineral have been given in the approved document	Nil	No mining operations carried out due to lack EC.
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	Coordinates 636441 E to 636619 E and 2427516 N to 2427782 N	Nil	-do-
4c	Number of dumps within lease area and outside lease area	Topsoil: 01 no. Waste: 01 no.	Nil	-do-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Proposed beyond ultimate pit limit.	Nil	-do-
4e	Number of active & alive dumps	03 nos.	Nil	-do-
4f	Number of dead dumps	No proposal	NA	
4g	Number of dumps stabilised	No proposal	NA	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Nil	-do-
4i	Length of Retaining wall or garland drain all along dump	712 meter of retaining wall and 712 meter of garland drain	Nil	-do-
4j	Number of settling ponds	construction of settling ponds around waste dump to prevent Surface run off proposed	Nil	-do-

4k	Specific comments of inspecting officer on waste dump management	The mining operations in the mining lease area is yet to commence due to lack of environmental clearance. Thus no waste dump is developed and as no protection measures as proposed implemented.
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5.0 Solid Waste Management-Backfilling

SN	Item	Proposals 2021-22	Actual work 2021-22	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Proposal for full extraction of mineral from mined out area before starting backfilling has been given in the approved document during conceptual stage	Nil	No area is mined out.
5b	Area under backfilling of mined out area	Proposal has not been given for backfilling.	Nil	No area is mined out.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Proposal has been given in the approved document for concurrent use of topsoil for restoration of the ground.	Nil	No mining operations is commenced.
5d	Total area fully reclaimed & rehabilitated	Proposal for reclamation and rehabilitation has not been given in the approved document.	Nil	No area is mined out.
5e	General remarks of inspecting officer on backfilling, reclamation etc	No area is mined out. Thus, no proposal for backfilling of mined out area is given in approved Mining Plan. As such, the mining operations in the lease area is yet to commence due to lack of EC.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals 2021-22	Actual work 2021-22	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23. Details should be given in the format as given in Annexure-20.	Submitted on time.	2021-22 PMCP submitted	Submitted on time.

6b	<p>Management of worked/mined out benches</p> <p>i) Area available for rehabilitation (ha)</p> <p>ii) Afforestation done (ha)</p> <p>iii) No. of saplings planted during the year</p> <p>iv) Cumulative no. of plants</p> <p>v) Any other specific method of rehabilitation</p> <p>vi) Cost incurred on watch & care during the year</p>	<p>NIL</p> <p>2500</p>	<p>Nil</p> <p>2675</p>	
6c	<p>Compliance on reclamation and rehabilitation by backfilling</p> <p>i) Voids available for backfilling (L X B X D)</p> <p>ii) Void filled by waste/tailings</p> <p>iii) Afforestation on the backfilled area</p> <p>iv) Rehabilitation by making water reservoir</p> <p>v) Any other specific means</p>	<p>Proposal has not been given in the approved document.</p>	<p>Not applicable.</p>	
6d	<p>Compliance of Rehabilitation of waste land within lease</p> <p>i) Afforestation</p> <p>ii) Area rehabilitated (ha)</p> <p>iii) Method of rehabilitation</p>	<p>2500</p>	<p>2675</p>	
6e	<p>Compliance of Environmental monitoring (core zone & buffer zone)</p>	<p>Proposal has been in the approved document for regular monitoring of environmental parameters at core and buffer zone</p>	<p>No mining activities has been done after grant of mining lease due to no environment clearance.</p>	
6f	<p>General remarks of inspecting officer on PMCP compliance & progressive</p>	<p>As mining activity yet to be started therefore only afforestation has been done in 7.5 meter safety barrierzone.</p>		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Mineral is proposed for direct dispatch from the lease area to the captive plant after mechanised crushing and screening.	Nil	No excavation has been done after grant of mining lease due to no environment clearance.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised crushing and screening.	Nil	-do-
7c	Different grade of mineral sorted out at mines	Mechanised sorting has been proposed in the approved document before dispatch of the ROM to the captive plant.	Nil	-do-
7d	Any beneficiation process at mines	No beneficiation process has been proposed except crushing and screening.	Nil	-do-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No work done as per proposals in approved Mining Plan, since, the mining activities yet to be commenced.		

8.0 Environment

SN	Item	Proposals 2021-22	Actual work 2021-22	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	Proposal has been given in the approved document for separate removal of topsoil and its utilization.	Nil	No excavation has been done after grant of mining lease due to no environment clearance.
8b	Concurrent use or storage of topsoil	Proposal has been given in the approved document for concurrent use of Topsoil.	Nil	-do-

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumping of Topsoil, Overburden, and Mineral have been proposed in the approved document.	Nil	-do-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposal has not been given in the approved document for restoration of land during plan period.	Nil	Not applicable at present.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposal has not been given in the approved document for reclamation and rehabilitation in the Mined out area.	Nil	No area is mined out.
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	2021-22: 2500 nos. saplings will be planted	2675 nos withinlease area.	
8g	Survival rate	Not mentioned in the approved document	Approx 75%	
8h	Water sprinkling on roads to control airborne dust	water sprinkling on roads through water tanker.	Nil	No excavation has been done after grant of mining lease due to no environment Clearance.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	As the mine is yet to be start mining activities therefore no such adverse impact observed on aesthetic beauty in and around mines area. During the year 2021-22, plantation of 2675 saplings have been done within the lease area.		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – Feb 2023 A.R. submitted upto- 2021-22		Submitted on time.
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: Ravikant Yadav, Geologist: Recruitment under process, Manager: Ravikant Yadav	No Geologist is appointed at present. Violation of Rule 55 (1) (c) (i) of MCDR, 2017 is pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- NIL Waste/reject- NIL Others- (plantation): 1.03 ha	Information is correct.	No mining operations has commenced.
9d	Scrutiny of Annual return on Afforestation	Within lease area: 2675 nos., Outside ML: 200 nos	Within lease area: 2675 nos.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Not applicable	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock: ROM: NIL Graded Ore: NIL	No excavation has been done after grant of mining lease due to no environment	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value: NIL Ex-Mine Price: NIL Cost of Production: NIL	-do-	
9i	Scrutiny of Annual return on fixed assets	38753387 Rs	Fixed asset of land only.	Appears to be correct.
9k	Scrutiny of Annual return on mining machineries	No machineries have been deployed.		

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

Rule	Earlier violation pointed out	Status
Rule 11(1)	Against proposal to carry out plantation of 2500 saplings during the year 2020-21, plantation of 1875 saplings has been carried out.	Done
Rule 26(2)	A yearly report as per the format specified by Indian Bureau of Mines, before 1st day of July every year setting forth the extent of protective and rehabilitate works carried out has not been submitted for the year 2020-21.	Done
Rule 45 (5) (b)	Following information are furnished incorrectly in submitted Monthly Return for the	Done

	month October, 2021 : (i) Number working days is furnished as 25 days although no mining operations carried out during the period. (ii) No information production proposal for current financial year and cumulative production as reported up to current month are furnished.	
Rule 45 (5) (c)	Following information are furnished incorrectly in submitted Annual Return for the year 2020-2021 : (i) Surface area utilization (ii) Mineral reserves	Done
Rule 55 (1) (c)	Whole time Geologist is not appointed	Done

11- Date of Last Inspection, Name and Designation of the Inspecting Officer:

During the previous inspection on dated 03/12/2021 by Debadurllav Dash, Sr. Mining Geologist, Indian Bureau of Mines, Raipur, violation of Rule 11(1), 26(2), 45(5)(b), 45 (5) (c) and 55 (1) (c) (i) and all violations have been complied with.

12- Details of the Violations Pointed during current inspection:

नियम	उल्लंघन के प्रकार का ब्यौरा
11(1)	The mining operations are required to be carried out in accordance with the Mining Plan approved, modified or reviewed by Indian Bureau of Mines. However, the mining operations have not been observed carried out in accordance with Review & updation of Mining Plan approved vide letter No. Janjgir/Chup/Khayo/ 1243/2020 dated 28/10/2020 and Review & updation of Mining Plan approved vide letter No. Janjgir-Champa/Lst/SI.No.-1298/2021 dated 07.01.2022 to the extent indicated below: Against proposal to carry out exploration in form of 06 boreholes during the year 2021-22, no exploration has been reported carried out. Hence, the above are observed to be against the scientific development of the mine.
55 (1) (c) (i)	Whole time Geologist is not appointed as required under this rule.

Debadurllav Dash ,
Regional Mining Geologist ,
Indian Bureau of Mines, Raipur

dated :-

