

MCDR INSPECTION REPORT**1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation	S. Kartikeya, Jr. Mining Geologist, Indian Bureau of Mines, Raipur
2	Accompany with Mine Officials	Shri Ritesh Kaimal, Head (Mines), Shri Rajesh Kumar Rathore, Manager (Mines)
3	Date of inspection	20/09/2019
4	Name of the Mine	Arasmeta Limestone Mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest: NIL Non-Forest: 46.292 Ha. Total Lease Area: 46.292 Ha.
6	Mine Code	38CHG06002
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/378/2011
8	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.in
9	Village	Arasmeta
10	Taluka / Mandal / District	Tehsil Akaltara, Distrioct Janjgir Champa
11	State	Chhattisgarh
12	Post office & PIN	Gopalnagar, Pin Code: 495 663
13	Nearest police station	Mulmula
14	Nearest Railway station	Akaltara
15	Date of Grant of Mining Lease	18/06/1997 to 17/06/2017 (20 years)
16	Date of Execution	18/06/1997
17	Date of opening of Mine	19/11/2003
18	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 50 years. Supplementary lease agreement for extended period has been made on 28/01/2019
19	Date of second Renewal, if applicable and its period & expiry	Not applicable.
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable.
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Jaya Kumar Krishnaswamy, Managing Director M/s Nuvoco Vistas Corporation Limited Equinox Business Park, Tower 3, East Wing, 4th Floor, LBS Road, Kurla (West), Mumbai – 400 070 Phone: +91 (0) 22- 66306510

		<p>Fax: +91 (0) 22 – 67692595 Email: jayakumar.krishnaswamy@nuvoco.in Date of Appointment: 31/10/2018 Notice of appointment has not been sent, Deviation has been pointed out.</p>
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	<p>Shri Sanjay Kumar Tyagi, Head (Plant) Arasmeta Cement Plant M/s Nuvoco Vistas Corporation Limited (Formerly Lafarge India Limited), P.O-Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa, Chhattisgarh - 495663 Phone: +91 (0) 7817-233234, Fax: +91 (0) 7817-234237,234286 Email: sanjay.tyagi@nuvoco.in Date of Appointment: 31/10/2018</p>
23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	<p>Shri Rajesh Kumar Rathore Arasmeta Cement Plant M/s Nuvoco Vistas Corporation Limited (Formerly Lafarge India Limited), P.O-Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa, Chhattisgarh - 495663 Phone: +91 (0) 7817-233234, Mobile: +91 (0) 7389949550 Fax: +91 (0) 7817-234237,234286 Email: rajeshkumar.rathore@nuvoco.in Date of Appointment: 28/03/2019 Notice of appointment has not been sent, Deviation has been pointed out.</p>
24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	<p>Not appointed Deviation has been pointed out.</p>
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	<p>Not appointed Deviation has been pointed out.</p>
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	<p>Mining Plan approved vide letter no. BLS/LST/MOLN-475/NGP Nagpur dated 17/05/1996 Proposal Period: 1997-98 to 2001-02</p> <p>Mining Plan approved vide letter no. 314(3)/98-MCCM(C)/MP-1 Nagpur dated 11/09/1998 Proposal Period: 1997-98 to 2001-02</p> <p>Progressive Mine Closure Plan approved vide letter no. 314(3)/2008-MCCM(CZ)/PMCP-3 Nagpur dated 14/07/2009 Proposal Period: 1997-98 to 2001-02</p> <p>Modified Mining plan approved vide letter no. BSP/LST/MPLN-475/NGP/2015/20-RPR Raipur dated 13/07/2016 Proposal Period: 2017-18 to 2021-22</p>

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27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Lapse Period: 2002-03 to 2016-17 (15 Years)
28	Mineral(s) granted in lease and proved for mining	Limestone
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanised, Others or Manual)	Category 'A' Fully Mechanised
31	Captive/Non Captive	Captive
32	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
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Rs. 4,74,750/- vide BG no. 1637615BG0000640 dated 26/06/2015 Validity: 26/06/2015 to 31/03/2022 Rs. 52,22,250/- vide BG no. 1637617BG0000246 dated 22/03/2017 Validity: 22/03/2017 to 31/03/2022 (Total Amount Rs. 56,97,000/-)

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	No exploration has been proposed in the approved document during MMP period.	2019-20: 11 nos. of core boreholes with cumulative depth of 263 meters.	-
1b	Exploration over lease area for Geological axis 1 or 2.	-do-	As per the approved document the entire lease area has been explored under G1 level of exploration.	-
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not mentioned in the approved document.	M/s GEM Consultants, Bilaspur (C.G.) Phone: +91 (0) 9630069354 +91 (0) 8319025438 Email: gem.consultants2015@gmail.com	-

			Expenditure: Rs. 5,00,120/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No exploration has been proposed in the approved document during MMP period.	As per the approved document the entire lease area has been explored under G1 level of exploration.	-
1e	Balance reserves as on 01.04.2019 (in Million Tonnes)	Under (111): 7.70 Million Tonnes Under (121): 0.69 Million Tonnes Under (211): 2.89 Million Tonnes Under (221): 1.49 Million Tonnes	Under (111): 8.62 Million Tonnes Under (121): 0.69 Million Tonnes Under (211): 2.89 Million Tonnes Under (221): 1.49 Million Tonnes	No production has been done during F.Y. 2017-18 to 2018-19 due to no environment clearance.
1f	General remarks of inspecting officer on geology, exploration etc.	NIL		

2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location)	2018-19: In between local co-ordinates S020 to N248 and E000 to E290	No excavation has been done after grant of mining lease due to no environment clearance.	The mine is temporarily discontinued due to no environment clearance.
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Topsoil/OB: 01 no. Ore/Mineral: 03 nos.	-do-	-do-
2c	Stripping ratio or ore to OB ratio	1:0.39	-do-	-do-
2d	Quantity of topsoil generation in m3	79825.00 CuM	-do-	-do-
2e	Quantity of overburden generation in m3	29885.00 CuM	-do-	-do-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	NIL		

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	01 no.	No excavation has been done after grant of mining lease due to no environment clearance.	The mine is temporarily discontinued due to no environment clearance.
3b	Quantity of ROM mineral production proposed	500000.00 Metric Tonnes	-do-	-do-
3c	Recovery of salable/usable mineral from ROM production	87%	-do-	-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.	-do-
3f	Quantity of sub-grade mineral generation	74713.00 Metric Tonnes	No excavation has been done after grant of mining lease due to no environment clearance.	The mine is temporarily discontinued due to no environment clearance.
3g	Grade of sub-grade mineral generation	CaO 34% to below 42% MgO: Less than 5%	-do-	-do-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised crushing and screening has been proposed in the approved document.	-do-	-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.	-do-	-do-
3j	Provision of drilling & blasting in mineral benches	Dia.: 102 mm to 115 mm Spacing: 4.5 m to 5.0 m Burden: 2.5 m to	-do-	-do-

		3.0 m Depth: 7.0 m		
3k	Provision of mining machineries in mineral benches	1. Hydraulic Excavator 01 no. with 2.5 CuM to 3.0 CuM bucket capacity 2. Dozer 01 no. 3. Dumpers 05 nos. with 20 Metric Tonnes to 30 Metric Tonnes capacity 4. Drilling Machine 01 no. with 115 mm dia. capacity 5. Explosive van 01 no. 6. Water tanker 01 no. 7. Diesel/Electric pumps 02 nos. with 10 HP capacity 8. Rock breaker 01 no.	-do-	-do-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Topsoil/OB: 1.0 m to 3.0 m Ore/Mineral: 7.0 m	-do-	-do-
3m	Total area covered under excavation/pits	10.06 Ha. up to end of MMP period.	-do-	-do-
3n	Ore to OB ratio for the pit/mine during the year	1:0.39	-do-	-do-
3o	Total area put in use under different heads at the end of year	Pit- 10.06 Ha. Waste/reject- 5.68 Ha. Others- 3.05 Ha. Up to end of MMP period	-do-	-do-
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2017-18: 415521.00 Metric Tonnes Yr- 2018-19: 500000.00 Metric Tonnes	Yr- 2017-18: NIL Yr- 2018-19: NIL	Does not have valid approved document F.Y. 2002-03 to 2016-17
3q	General remarks of inspecting officer on method of mining etc.	NIL		

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, Mineral, Mineral Sub-grade and Mineral reject have been given in the approved document.	No excavation has been done after grant of mining lease due to no environment clearance.	The mine is temporarily discontinued due to no environment clearance.
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	In between local co-ordinates Topsoil: S050 to S220 and W280 to W380 Mineral Sub-grade: N026 to N140 and E420 to E500 Waste: S020 to S130 and E400 to E565	-do-	-do-
4c	Number of dumps within lease area and outside lease area	Topsoil: 01 no. Mineral Sub-grade: 01 no. Waste: 01 no.	-do-	-do-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Proposed beyond ultimate pit limit.	-do-	-do-
4e	Number of active & alive dumps	03 nos.	-do-	-do-
4f	Number of dead dumps	Proposal has not been given in the approved document.	-do-	-do-
4g	Number of dumps stabilised	Proposal has not been given in the approved document for dump stabilization.	-do-	-do-
4h	Whether Retaining wall or garland drain all along dumps are there	Proposal has been given in the approved document for construction of garland drain around waste dump to prevent surface run off.	-do-	-do-
4i	Length of Retaining wall or garland drain all along dump	Length has not been mentioned in the approved document.	-do-	-do-
4j	Number of settling ponds	Proposal has been	-do-	-do-

		given in the approved document for construction of settling ponds around waste dump to prevent surface run off.		
4k	Specific comments of inspecting officer	NIL		

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	Proposal for full extraction of mineral from mined out area before starting backfilling has been given in the approved document during conceptual stage.	No excavation has been done after grant of mining lease due to no environment clearance.	The mine is temporarily discontinued due to no environment clearance.
5b	Area under backfilling of mined out area	Proposal has not been given for backfilling.	-do-	-do-
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.	-do-	-do-
5d	Total area fully reclaimed & rehabilitated	Proposal for reclamation and rehabilitation has not been given in the approved document.	-do-	-do-
5e	General remarks of inspecting officer on backfilling, reclamation etc	NIL		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals	Actual work	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.	The given information has been cross verified.	-

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>1.05 Ha.</p> <p>NIL</p> <p>2500 nos.</p> <p>2500 nos.</p> <p>By Plantation</p> <p>Not mentioned in the approved document.</p>	<p>Along 7.5 m barrier zone</p> <p>NIL</p> <p>800 nos.</p> <p>800 nos.</p> <p>By Plantation</p> <p>No record has been maintained.</p>	<p>The mine is temporarily discontinued due to no environment clearance.</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>	<p>-do-</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>Proposal has not been given in the approved document.</p>	<p>Not applicable.</p>	<p>-do-</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>Being done as per proposal.</p>	<p>-do-</p>
6f	<p>General remarks of inspecting officer on PMCP compliance & progressive</p>	<p>NIL</p>		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	<p>ROM Mineral dispatch or grade-wise sorting within lease area</p>	<p>ROM Mineral will directly be dispatched from the lease area to the captive plant after mechanised crushing and screening.</p>	<p>No excavation has been done after grant of mining lease due to no environment clearance.</p>	<p>The mine is temporarily discontinued due to no</p>

				environment clearance.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised crushing and screening.	-do-	-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.	-do-	-do-
7d	Any beneficiation process at mines	No beneficiation process has been proposed in the approved document during plan period.	-do-	-do-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	NIL		

8.0 Environment

SN	Item	Proposals	Actual work	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.	No excavation has been done after grant of mining lease due to no environment clearance.	The mine is temporarily discontinued 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.	-do-	-do-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumping of Topsoil, Overburden, Mineral, Mineral Sub-grade and Mineral reject have been proposed in the approved document.	-do-	-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.	-do-	-do-

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.	-do-	-do-
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	2018-19: 2500 nos. saplings will be planted.	2018-19: 800 nos. saplings will be planted.	-do-
8g	Survival rate	Not mentioned in the approved document.	Approx 70%	-do-
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling on roads through water tanker.	No excavation has been done after grant of mining lease due to no environment clearance.	-do-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	NIL		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – September 2019 A.R. submitted upto- F.Y. 2018-19	NIL

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: Not appointed Geologist: Not appointed Manager: Shri Rajesh Kumar Rathore	Mining Engineer: Not appointed Geologist: Not appointed Manager: Shri Rajesh Kumar Rathore.	Deviation has been 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- 0.200 Ha. Up to end of F.Y. 2018-19	Pit- NIL Waste/reject- NIL Others- 0.200 Ha. Up to end of F.Y. 2018-19	-
9d	Scrutiny of Annual return on Afforestation	Within lease area: 800 nos.	Within lease area: 800 nos.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	No mineral reject will be generated during MMP Period.	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	-

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			clearance	
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	Rs. 40201000/-	Rs. 40201000/-	-
9k	Scrutiny of Annual return on mining machineries	No machineries have been deployed.	No excavation has been done after grant of mining lease due to no environment	-

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

No outstanding violations

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

Shri Rajesh Kumar Das, Sr. ACoM, Date of Inspection: 24/05/2016

Details of the Violations Pointed-out during Inspections:

नियम	उल्लंघन के प्रकार का विस्तृत ब्यौरा
Rule 46	Notice of Certain Appointment: Appointment notice of Nominated Owner and Manager (Mines) has not been sent in the prescribed format to the authorized officer within fifteen days from the date of such appointments.
Rule 55	Full-time Mining Engineer and a Geologist are not been appointed.

(Name of the Inspecting Officer and Designation and Date)

Shaival Kartikeya
Jr. Mining Geologist
Indian Bureau of Mines, Raipur
Date of inspection: 20/09/2019