

MCDR INSPECTION REPORT 2022-23**General:**

Sl .No.	Particulars	Details
1	Name of the Mine	CHILHATI LIMESTONE MINE
2	Date of Inspection:	10/01/2024
3	Name of Inspecting Officer	Shri Prem Prakash, RCOM, IBM Raipur
4	Name of official accompanying inspection	Shri Ritesh Kaimal HOD-Mines & Shri Narayan Nahak, Mines Manager
5	Last date of Inspection & Officer	22/08/2022 Shri D. Upadhyay, Sr. Assistant Controller of Mines
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	1085.365 Hectare (Private Land-996.956 ha., Government Land-88.409 ha., Forest Land –Nil)
7	Mine code	38CHG02002
8	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/378/2011
9	Name of the Lease, Address, Phone, email and fax number	M/s Nuvoco Vistas Corporation Limited (FormerlyLafarge 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	Chilhati
11	Taluka/Mandal	Masturi/ Pachpedi
12	District	Bilaspur
13	Pin code	495551
14	State	Chhattisgarh
15	Post Office	Pachpedi
16	Nearest Police Station	Pachpedi
17	Nearest Railway Station	Bilaspur
18	Date of Grant of Mining Lease	13/07/2015
19	Date of Execution	Mining Lease Execution on 22/12/2015 for 50 years from 15/12/2015 to 14/12/2065
20	Weekly day of rest	Tuesday
21	Date of opening of Mine	19/04/2017
22	Date of First Renewal, if applicable and its period & expiry	NA
23	Date of Second Renewal, if applicable and its period & expiry	NA
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr Jayakumar Krishnaswamy Equinox Business Park, Tower -3, East Wing, 4th Floor Off Bandra –Kurla Complex, LBS Road

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		Kurla –West Mumbai-400070, Tel 022-66306511, Fax- 022-66306510 Email: jayakumar.krishnaswamy@nuvoco.com Date of appointment: 01/11/2018
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr.Hari Kishore Garikapati Arasmeta Cement Plant , Post office Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa ,Chhattisgarh, Pin: 465663, Phone : 9347830298 Email: harikishore.garikapati@nuvoco.com Date of appointment : 15/09/2023
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Name: Narayan Nahak Add: Arasmeta Cement Plant , Post office Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa,Chhattisgarh, Pin: 465663 Phone : 9893019615 Email: narayan.nahak@nuvoco.com Date of Appointment: 01/08/2020
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Name: Narayan Nahak Qualification: AMIE (MINING), Experience: 24 years Add: Arasmeta Cement Plant , Post office Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa ,Chhattisgarh, Pin: 465663 Phone : 9893019615 Email: narayan.nahak@nuvoco.com Date of Appointment: 01/08/2020
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57	Mr Rajul Asati, Add: Arasmeta Cement Plant , Post office Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa ,Chhattisgarh, Pin: 465663 Phone : 7733021205 Email: rajul.asati.ext@nuvoco.com Date of Appointment: 22/05/2023
30	Date of Approval of Mine Plan/Modified Mine Plan with five-year period and specific condition in approval letter, if any.	BLS/LST/1221/2019/RAIPUR/545 On Date: 11.12.2019 For Period 2020-21 to 2024-25
31	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	NA
32	Mineral(s) granted in lease and approved for Mining	Limestone
33	Method of Mining (Opencast, Underground)	Opencast
34	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
35	Captive/Non-Captive	Captive
36	Present EC Status	4 MTPA Limestone
37	Status of Financial Assurance	Amount of Financial Assurance Rs. 19746000/- BG No.- I3940100012108 dated 18-12-2019 Vaild up to-31/03/2025

1/33690/2024 **Scientific Mining: Compliance of proposals of approved Mining Plan/Review of Mining Plan:****1.0 Exploration:**

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
1a	Backlog of previous year Proposals	No proposal	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal	Nil	Entire potential mineralised area has been explored at G1 level as per the approved Mining Plan.
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Nil	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	No proposal	Nil	
1e	Balance reserves as on 01.04.2023	Under 111: - 149,435,522 Tonne Under 122: - 12,395,000 Tonne		As per AR submitted for the year 2022-23
1f	General remarks of Inspecting officer on geology, exploration etc.	No exploration has been proposed in the approved Review of Mining Plan during the financial year 2022-23. The entire lease area has been explored at G1 level as per the approved Mining Plan.		

2.0 Development:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
2a	Location of Development w.r.t. lease area	Development proposed in one (01) pit i.e. Main Pit in between UTM coordinates 632807 E to 633352 E & 2411429 N to 2410903N	Carried out with in the proposed area. However, development/excavation observed substantially lagging than envisaged.	Violation under Rule 11(1) issued in this regard.
2b	Separate benches in top soil overburden and mineral (Rule 15)	Separate benches proposed in OB & mineral	Separate benches were maintained in OB & mineral	
2c	Stripping ratio or ore to OB ratio	1:0.26	1:0.27	Tonne:Cum
2d	Quantity of topsoil generation in m ³	132300.00 Cum	40233.00 Cum	As reported by the Mines Manager
2e	Quantity of overburden generation in m ³	190556 Cum	27006 Cum	As reported in AR 2022-23
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Production & development was carried out within the proposed grids as per the approved plans. However, development of main pit observed lagging far behind than proposal. Violation of Rule 11(1) pointed out in this regard.		

3.6 Exploitation:

S.N	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
3a	Number of pits proposed for production	01 Nos.	01 Nos.	
3b	Quantity of ROM mineral production proposed	1225000 MT	2,48,126.57 MT	Violation under Rule 11(1) issued for substantially lagging development & excavation than the proposal
3c	Recovery of Salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposal	Nil	No generation of mineral rejects
3e	Grade of mineral reject generation and threshold value declared	No proposal	Not applicable	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	Nil	
3h	Manual/Mechanized method adopted for segregation from ROM	No proposal	Not applicable	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	No such study carried	
3j	Provision of drilling & blasting in mineral benches	Deep hole drilling and blasting proposed in mineral benches	Drilling and blasting were carried out in mineral benches as proposed	
3k	Provision of mining machineries in mineral benches	Yes, HEMMs proposed	HEMMs deployed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes. Soil 2-4 meter, Limestone 06 to 08 meter	Bench height and width have not been maintained as per proposal	Violation under Rule 11(1) issued in this regard.
3m	Total area covered under excavation /pits	24.43 Ha. up to end of RMP period 2024-25	About 10 Ha. up to 2022-23	
3n	Ore to OB ratio for the pit/mine during the year	1:0.26	1:0.27	
3o	Total area put in use under different heads at the end of year	65.82 Ha. up to end of RMP period 2024-25	About 27 Ha. up to 2022-23	

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3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	2018-19: 2842188 2019-20: 3999993 2020-21: 490000 2021-22: 735000 2022-23: 1225000	2018-19: 211201.00 2019-20: 289563.36 2020-21: 129597.11 2021-22: 231190.65 2022-23: 248126.57	(All unit in MT) As per AR submitted
3q	General remarks of inspecting officer on method of mining etc.	Open cast working is being carried out by the deployment of HEMMs with the help of drilling and blasting. However, violation under Rule 11(1) issued for substantially lagging development/excavation and not maintaining systematic & regular benches as envisaged in the approved RMP		

4.0 Solid Waste Management-Dumping:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate dumping for topsoil, OB/Waste	Separate dumping for topsoil, OB/Waste carried out	
4b	Location of topsoil, OB & mineral reject dumps	1. Topsoil E633549 to E633761 & N2411079 to N2410792 2. Waste dump E 632695 to E 633135 & N2412199 to N2411881 No proposal for mineral rejects dump	Dumping carried out with in proposed area	
4c	Number of Dumps within lease area and outside lease area	Within lease area 01-Waste dump	Within lease area 01-Waste dump	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Proposed beyond Ultimate pit limit	Beyond UPL	
4e	Number of Active & Alive dumps	01 Nos.	01 Nos.	
4f	Number of dead dumps	No proposal	Nil	
4g	Number of dumps stabilized	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Not constructed completely & properly	Violation under 11(1) issued
4i	Length of Retaining wall or garland drain all along dump	190 m retaining wall & 480 m garland drain	Not constructed completely & properly	-do-
4j	Number of settling ponds	01	01	
4k	Specific commends of inspecting officer on waste dump management	Environmental protection measures have not been undertaken properly around the waste dump as proposed. Violation under 11(1) issued as the retaining wall/bunds and garland drains proposed are not found made completely & properly.		

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5.0 Solid Waste Management-Backfilling:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	No area has been exhausted fully for carrying out backfilling
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Not applicable	
5d	Total area fully reclaimed & rehabilitated	No proposal	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	The area is not fully exhausted for backfilling, reclamation, etc.		

6.0 Progressive Mine Closer Plan:

S. N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26 (2)	To be submitted before 01 st July every year	PMCP report received in time.	Annual report submitted on 28.06.2023
6b	Management of worked/mined out benches	No proposal	Nil	No area is mined out fully at present
	(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 (Rs)				
6c	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L*B*D) (ii) Void filled by waste/tailings (iii) Afforestation on the backfilling	No proposal	Nil	No area has matured for reclamation and rehabilitation purposes

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	(iv) Rehabilitation by making water reservoir (v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	i. 2500 Nos. ii. 1.00 Ha iii. By plantation	i. 2550 Ha. ii. About 1.00 Ha iii. By plantation	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Environmental monitoring of air, water & noise proposed	Environmental monitoring of air, water & noise was carried out	Parameters were within the permissible limit.
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Annual PMCP report has been submitted. Plantation has been carried out as per proposal. No area has got matured for reclamation and rehabilitation purposes.		

7.0 Mineral Conservation:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM Mineral will directly be dispatched from the lease area to the captive plant	ROM is being dispatched to their captive cement plant	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	No proposal	Nil	
7c	Different grade of mineral sort out at mine	No proposal	Nil	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The limestone produced from the mine being fed to the captive cement plant.		

8.0 Environment:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Separate removal and utilization of topsoil proposed	Stacked and used for plantation purpose	
8b	Concurrent use or storage of topsoil	Concurrent use and storage	Stacked and used for plantation purpose	

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8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Separate dumps for Topsoil, OB/Waste proposed	Separate dumps are maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	2500 Nos. plantation with in ML area	With in lease area 2550 Nos. saplings have been planted	
8g	Survival rate	Not specified	70%	
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the RMP for water sprinkling on roads through water tanker	Water sprinkling being carried out on haul roads to suppress the dust generated	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in & around the mine area was good.		

9.0 Compliance of Rule 45:

S N	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	MR being submitted regularly		
		AR submitted up to FY 2022-23		
S N	Item	Details Given in A.R.	Observation of I/Officer	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer and Manager: Naryan Nahak Geologist – Rajul Asati	Employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Current working 9.909 Ha.	About 9.9 Ha.	
9d	Scrutiny of Annual return on afforestation	Within lease area 2550 nos.	Within lease area 2550 nos.	
9e	Scrutiny of Annual return on mineral reject generation	Nil	No generation of mineral rejects	

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	(Grade & Quantity)		reported	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	ROM Opening Stock- Nil Production: 248126.570 Closing Stock: Nil	ROM Opening Stock- Nil Production: 248126.570 Closing Stock: Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex-Mine price and cost of production- Rs. 364.64 /Tonne Sale value- Nil	Captive consumption	
9i	Scrutiny of Annual return on Fixed assets	Rs. 777642087 including land, building, Plant and Machinery including transport equipment	Rs. 777642087 including land, building, Plant and Machinery including transport equipment	
9k	Scrutiny of Annual return on mining Machineries	Back hoe- 02 Nos, Tipper-24 Nos, Drill machine -02 Nos., Dozer-01 No., Motor Grader-01 No.	Observed deployed	

10- Details of violations observed during current inspection: - Violation of Rule 11(1) and 46 of MCDR, 2017 are pointed out after current inspection.

प्रेम प्रकाश / Prem Prakash

क्षेत्रीय खान नियंत्रक / Regional Controller of Mines

भारतीय खान ब्यूरो, रायपुर / Indian Bureau of Mines, Raipur