

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of the Mine	Kirari Limestone Mines
2	Date of inspection	28.12.2023
3	Name of inspecting office & designation	Shri D. Upadhyay, DCOM Indian Bureau of Mines, Raipur
4	Accompanying Mine Official with Designation	Mr. Subhransu Sekhar Panda (Mines Manager) & Syed Abdul Mannan (Geologist)
5	Last date of Inspection & Officer	10/03/2023, Shri D. Dash, RMG
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease area 167.048 hectare. (Agriculture land- 100.356 ha, Govt. Land- 66.690 ha. Forest land – Nil)
6	Mine Code	38CHG06001
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/378/2011
8	Name of the lessee, Address, phone, email and fax number	Nuvoco Vistas Corp Ltd, Equinox Business Park, Tower -3, East Wing, 4th Floor Off Bandra –Kurla Complex, LBS Road Kurla –West Mumbai-400070
9	Village	Kirari and Chorbhatti
10	Taluka / Mandal / District	Taluka- Akaltra, District-Janjgir Champa
11	State	Chhattisgarh
12	Post office & PIN	Dev Kirari 495663
13	Nearest police station	Akaltra
14	Nearest Railway station	Akaltra
15	Date of Grant of Mining Lease	19/04/2000
16	Date of Execution	26/08/2000
17	Date of opening of Mine	13/10/2006
18	Date of first Renewal, if applicable and its period & expiry	<p>From 26/08/2020 to 25/08/2050</p> <p>Initially Mining Lease has been granted to M/s Raymond Limited, Ratnagiri Maharashtra.</p> <p>Later on Mining lease has been transferred to M/s Lafarge India Limited, Mumbai dated 17/01/2001</p> <p>Thereafter addendum to mining lease agreement from M/s Lafarge India Limited to M/s Nuvoco Vistas Corporation Limited dated 30/11/2017</p> <p>As per section 8A of MMDR Amendment Act, 2015, Mining Lease Period has been extended for 50 years. (For Captive Lease) i.e. extended up to 25/08/2050</p> <p>Supplementary lease agreement for extended period has been made on 13/04/2017</p>
19	Date of second Renewal, if applicable and its period &	NA

	expiry	
20	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
21	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, off Bandra -Kurla Complex, LBX road , Kurla West Mumbai-400070, India . phone no 022-66306511, email-jayakumar.krishnaswamy@nuvoco.com Date of appointment-01/11/2018
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Garikapati Hari Kishore, Agent & Plant Head Arasmeta Cement Plant of M/s Nuvoco vistas corporation , P.O-Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa, Chhattisgarh, Phone no- 07817-233234, Fax No -07817-234237,234286 Mail ID- harikishore.garikapati@nuvoco.com, Date of appointment- 15/09/2023
23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Subhransu Sekhar Panda Arasmeta Cement Plant of M/s Nuvoco vistas corporation limited, P.O-Gopalnagar, Tehsil-Akaltra, District- Janjgir Champa, Chhattisgarh, Phone no-9752487600 Mail ID-subhransu.panda@nuvoco.com- Date of appointment-01/03/2021
24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Subhransu Sekhar Panda , Arasmeta Cement Plant of M/s Nuvoco vistas corporation limited, P.O-Gopalnagar, Tehsil-Akaltra, District- Janjgir Champa, Chhattisgarh, Phone no-9752487600 Mail ID- subhransu.panda@nuvoco.com, Date of appointment- 01/11/2021
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Mr. Syed Abdul Mannan, Arasmeta Cement Plant of M/s Nuvoco vistas corporation limited, P.O-Gopalnagar, Tehsil-Akaltra, District- Janjgir Champa, Chhattisgarh, Mail ID-syed.mannan@nuvoco.com, Date of appointment- 22/07/2021
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Janj/Chup/Khayo-1262/2020 Raipur dated 12/02/2021 2021-22 to 2025-26 N/A
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	
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)	Mechanised
31	Captive/Non Captive	Captive
32	Existing EC Limit and validity	360000 ton/ year, EC No J-11015/23/2002-IA.II (M) dated 09/12/2003 valid upto 08/12/2033
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Valid upto 31/03/2026 ,Rs:- 12593400

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	10 nos of boreholes	Drilled 10 nos of boreholes	No Backlog
1b	Exploration over lease area for Geological axis 1 or 2.	Under G1 Level	Under G1 Level	Entire lease area is explored under G1 level of exploration.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not specified	Exploration Agency- Gem Consultant, Expenditure Rs. 13.37 Lakh	Exploration Agency- Gem Consultant, Expenditure Rs. 13.37 Lakh
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	Entire lease area is explored under G1 level of exploration.	Entire lease area is explored under G1 level of exploration.
1e	Balance reserves as on 01.04.2023 (in Million Tonnes)	Balance reserves as on 01.04.2023 is 34.15 Million Tonnes		
1f	General remarks of inspecting officer on geology, exploration etc.	Entire lease area is explored under G1 level of exploration.		

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)	E 650277 to E 650736 , N 2430068 to N 2429585	E 650298 to E 650734 ,N 2430060 to N 2429588	The development carried out within the proposed extent as per the proposal
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Separate benches proposed.	Separate benches in Ore & OB are maintained.	Soil/OB: 01 no. Ore: 04 nos
2c	Stripping ratio or ore to OB ratio	1:0.22 T/cu.m	1:0.11T/cu.m	Due to less production, OB generated less.
2d	Quantity of topsoil generation in m3	48300cu.m	25738cu.m	Due to less production, top soil generated less.
2e	Quantity of overburden generation in m3	65610cu.m	26128cu.m	Due to less production, OB generated less.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development is carried out within approved proposal.		

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	01 Pit
3b	Quantity of ROM mineral production proposed	360000T	203547.60T	ROM production is consumed to its captive plant.
3c	Recovery of salable/usable mineral from ROM production	360000T	203547.60T	Total ROM is usable to its Plant.
3d	Quantity of mineral reject generation	No Proposal	Nil	NIL
3e	Grade of mineral reject generation and threshold value declared	No Proposal	Nil	NIL
3f	Quantity of sub-grade mineral generation	No Proposal	Nil	NIL
3g	Grade of sub-grade mineral generation	No Proposal	Nil	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	Mechanized
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	Nil	NIL
3j	Provision of drilling & blasting in mineral benches	Drilling and blasting proposed.	Drilling and blasting is carried out as per proposal.	Dia.: 110 mm Spacing: 4.5 m to 5.5 m, Burden: 2.5 m to 3.3m, Depth: 6.0 m to 8.0m
3k	Provision of mining machineries in mineral benches	Shovel and dumper combination	Shovel and dumper combination	Excavator, Loader and Dumper are equipped to winning out the mineral.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Bench height is suitably matched with the excavator.
3m	Total area covered under excavation/pits	20.78 Ha. up to end of MMP period	15.934 Ha. up to end of F.Y. 2022-23	15.934 Ha. up to end of F.Y. 2022-23
3n	Ore to OB ratio for the pit/mine during the year	1:0.22 T/cu.m	1:0.11T/cu.m	Due to less production, OB generated less.
3o	Total area put in use under different heads at	Pit-20.78 Ha Waste dump site-	Pit-15.934 Ha Waste dump site-	Total area put in use under different

	the end of year	11.838 Others-9.36	8.388 Others-9.36	heads at the end of year are as per proposal
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2018-19: 360000 Metric Tonnes Yr- 2019-20: 360000 Metric Tonnes Yr 2020-21- 360000 Metric Tonnes Yr- 2021-22: 360000 Metric Tonnes Yr- 2022-23: 360000 Metric Tonnes	Yr- 2018-19: 225749.070 Metric Tonnes Yr- 2019-20: 279353.27 Metric Tonnes Yr- 2020-21: 138082.67 Metric Tonnes Yr- 2021-22: 197980.980 Metric Tonnes Yr- 2022-23: 203547.60 Metric Tonnes	ROM production is consumed to its captive plant.
3q	General remarks of inspecting officer on method of mining etc.	The ROM production has been carried out from single pit as per proposal.		

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 have been given in the approved document.	Being done as per proposal	Being done as per proposal
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	Topsoil: E 650156 to E 650299 , N 2429830 to N 2429641 Waste Dump E 649811 to E 650063 , N 2430090 to N 2429876	Being done as per Proposal	Being done as per Proposal
4c	Number of dumps within lease area and outside lease area	In 2022-23 with in lease area two dump proposed one soil and one waste, outside lease area - Nil	Being done as per Proposal.	Being done as per Proposal.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	Proposed Beyond Ultimate pit limit.	BeyondUltimate pit limit..	Beyond Ultimate pit limit.
4e	Number of active & alive dumps	2 nos	2 nos	
4f	Number of dead dumps	Not proposed	Nil	05 no.Temporary inactive dumps

4g	Number of dumps stabilised	Not proposed	3 nos dumps partially stabilised	3 nos dumps partially stabilised
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	Retaining wall is made all along dump
4i	Length of Retaining wall or garland drain all along dump	Retaining/boulder wall 370 meter garland drain 415 meter	Retaining/Boulder Approx 375m Garland drain 1: Approx 418m	Retaining wall is made all along dump.
4j	Number of settling ponds	1settling pond	1settling pond	01 settling pond
4k	Specific comments of inspecting officer	Separate dumping of OB is maintained as per proposal. Retaining wall is made all along dump.		

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	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
5b	Area under backfilling of mined out area	Not proposed	NIL	--do--
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Not proposed	NIL	--do--
5d	Total area fully reclaimed & rehabilitated	Not proposed	NIL	--do--
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area is not matured for reclamation and rehabilitation.		

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.	As per provision of MCDR 2017.	Annual report on PMCP submitted	Annual report on PMCP submitted
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	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.

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	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not proposed	NIL	NIL
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly monitoring	Quarterly monitoring	Quarterly monitoring
6f	General remarks of inspecting officer on PMCP compliance & progressive	Area is not matured for reclamation and rehabilitation.		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatched	ROM mineral dispatched	ROM mineral dispatched
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	Mechanical
7c	Different grade of mineral sorted out at mines	ROM mineral dispatched	ROM mineral dispatched	ROM mineral dispatched
7d	Any beneficiation process at mines	Nil	Nil	No such proposal for mineral beneficiation was proposed during the reporting year.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM mineral dispatched for its captive plant.		

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	Being done as per proposal	Being done as per proposal

		utilization.		
8b	Concurrent use or storage of topsoil	Proposal has been given in the approved document for concurrent use of topsoil.	Being done as per proposal	Being done as per proposal
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumping of Topsoil, Overburden, have been proposed in the approved document	Being done as per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	NIL	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	NIL	NIL
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	2022-23: 2000 nos. saplings will be planted.	2030 nos. saplings have been planted	2030 nos. saplings have been planted
8g	Survival rate	Not mentioned in the approved document	Survival rate 80%	Survival rate 80%
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.	Being done as per proposal.	Being done as per proposal
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Aesthetic beauty in and around mines area is maintained by plantation.		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – Nov 2023 A.R. submitted upto- 2022-23	

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 Subhransu Sekhar panda Manager- Subhransu Sekhar panda Geologist-Mr Syed Abdul Mannan	Mining Engineer: Shri Subhransu Sekhar panda Manager-Subhransu Sekhar panda Geologist-Mr Syed Abdul Mannan	Mining Engineer and Geologist appointed

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 15.934 Ha. Dump- 8.388ha Others- 8.54 Ha.	Pit- 15.934 Ha. Dump- 8.388ha Others- 8.54 Ha.	Land use pattern furnished in AR.
9d	Scrutiny of Annual return on Afforestation	2000 nos.	2030 nos	2030 nos of plantation
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock: ROM: NIL Graded Ore: NIL Closing Stock: ROM: NIL	Closing Stock: ROM: NIL Graded Ore: NIL Closing Stock: ROM: NIL	As reported in AR 2022-23
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-Mine Price: 412.18 Per Tonne Cost of Production: 412.18 Per Tonne	Ex-Mine Price: 412.18 perTonne Cost of Production: 412.18 Per Tonne	As reported in AR 2022-23
9i	Scrutiny of Annual return on fixed assets	Rs. 174099827	Rs. 174099827	As reported in AR 2022-23
9k	Scrutiny of Annual return on mining machineries	Machineries furnished in AR.	Machineries furnished in AR.	As reported in AR 2022-23

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

No Violation of serious nature is observed during the inspection.

Date: 05/03/2024

Signature:
Name: D. Upadhyay
Designation: DCOM