MCDR INSPECTION REPORT 2022-23

General:

Sl .No.	Particulars	Details	
1	Name of the Mine	Arasmeta Limestone Mine	
2	Date of Inspection:	27/12/2023	
3	Name of Inspecting Officer	Mr. D. Upadhyay, DCOM	
4	Name of official accompanying inspection	Narayan Nahak Sr. Manager Mines & Ajay Pratap Singh, Sr. Manager-Geology (Geologist)	
5	Last date of Inspection & Officer	12/12/2022, Shri Prem Prakash, RCOM	
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest: NIL Non-Forest: 499.987 Ha. Total Lease Area: 499.987 Ha.	
7	Mine code	38MPR06003	
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 Equinox Business Park, Tower 3, East Wing, 4th Floor, LBS Road, Kurla (West), Mumbai – 400070 Phone: +91 (0) 22- 67692500 Fax:+91 (0) 22 – 66306510 Email:- jayakumar.krishnaswamy@nuvoco.com	
10	Village	Arasmeta	
11	Taluka/Mandal	Tehsil - Akaltara	
12	District	Janjgir Champa	
13	Pin code	495663	
14	State	Chhattisgarh	
15	Post Office	Gopalnagar	
16	Nearest Police Station	Mulmula	
17	Nearest Railway Station	Akaltara	
18	Date of Grant of Mining Lease	1-Mining lease for limestone over an area of 510.588 hectare was granted on 25/05/1979. 2-The another mining lease, over an area of 11.299 hectare was also granted on 16/05/1986 3-Both the mining leases were amalgamated and subsequently renewed	
19	Date of Execution	under one mining lease of 521.887 hect. vide state Govt. order No. F- 3/110/98/12/2, dated 26.4.2000 First Execution of Mining Lease on	
17	Date of Execution	Little Execution of Millill Fease of	

		31/05/1979 and execution of
		amalgamated mining lease on 15/01/2001
20	Weekly day of rest	Tuesday
21	Date of opening of Mine	18/07/1979
22	Date of First Renewal, if applicable and its period &	31/05/1999 to 30/05/2019 (20years)
	expiry	dated15/01/2001
		Initially Mining Lease has been granted to
		M/s Raymond Limited, Ratnagiri
		Maharashtra.& amalgamation of lease
		deed execution on 15/01/2001 for twenty years.
23	Date of Second Renewal, if applicable and its period &	31/05/2019 to 31/03/2030 (11 Years)
	expiry	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 31/03/2030
		Supplementary lease agreement for
		extended period has been made on
24	Data of submission of general application if Mining	13/04/2017
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable.
	operations are communing ander decined entension	
25	Name of the Nominated Owner with Address, phone,	Shri Jayakumar Krishnaswamy, Managing
	email, fax number and date of appointment	Director M/s Nuvoco Vistas Corporation
		Limited Equinox Business Park, Tower 3,
		East Wing, 4th Floor, LBS Road, Kurla
		(West),
		Mumbai – 400 070Phone: +91 (0) 22-
		66306510
		Fax:+91 (0) 22 – 67692595
		Email:-
		jayakumar.krishnaswamy@nuvoco.com
26	Name of the Mine Agent with Address, phone, email, fax	Date of Appointment: 01/11/2018 Mr. Garikapati Hari Kishore, Agent & Unit
20	number and date of appointment	Head Arasmeta Cement Plant of M/s
	11	Nuvoco vistas corporation , P.O-
		Gopalnagar, Tehsil- Akaltra, District-
		Janjgir Champa, Chhattisgarh, Phone no-
		07817-233234, Fax No -07817-
		234237,234286
		Email:-
		harikishore.garikapati@nuvoco.com,
		Date of appointment- 15/09/2023
27	Name of the Mine Manager with Address, phone, email,	Shri Ritesh Kaimal, DGM (Mines)
	fax number and date of appointment in mines	Arasmeta Cement Plant M/s Nuvoco Vistas
		Corporation Limited P.O-Gopalnagar,
		Tehsil- Akaltra,
		District- Janjgir Champa, Chhattisgarh - 495663 Experience: +20 Years, Phone:
		Mobile: +91 (0) 9893019619
		Email:ritesh.kaimal@nuvoco.com
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		Date of Appointment: 16/05/2016
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Moradhwaj Giriya, Mining Engineer, Qualification: B.E. in mining Experience: +19 Years Arasmeta Cement Plant M/s Nuvoco Vistas Corporation Limited,P.O-Gopalnagar, Tehsil- Akaltra, District- Janjgir Champa, Chhattisgarh - 495663 Phone: 9893124516 Email: moradhawaj.giriya@nuvoco.com Date of Appointment: 01/06/2020
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri Ajay Pratap Singh, Sr. Manager-Geology Qualification: M.Sc. & P.hD in Geology, Experience: +19 Years, Arasmeta Cement Plant M/s Nuvoco Vistas Corporation Limited P.O-Gopalnagar, Tehsil- Akaltra, District-Janjgir Champa, Chhattisgarh - 495663 Phone:7898900524 Email:-ajay01.singh@nuvoco.com Date of Appointment: 02/01/2012
30	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	Review Mining plan and progressive mine closure plan, approved vide letter no. जांजगीर/चुना/खमो-1261/2020 Raipur dated
31	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	Proposal Period: 2021-22 to 2025-26 Note- For specific condition approval letter attached. Scheme of Mining approved vide letter no. 314(3)/2007/MS/PMCP-28 Nagpur dated 18/03/2008 Proposal Period: 2006-07 to 2010-11 Scheme of Mining approved vide letter no. 314(3)/2012/MS-23 Nagpur dated 06/03/2013 Proposal Period: 2011-12 to 2015-16
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)	Category 'A' Fully Mechanised
35	Captive/Non-Captive	Capative
36	Present EC Status	2700000 ton/ year, EC No J- 11015/64/2003-IA.II (M) dated 18/07/2005.
37	Status of Financial Assurance	Valid upto 31/03/2026 ,Rs:- 71648400

1.0 Exploration:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
1a	Backlog of previous year Proposals	12 no. (Meterage-650m) of Bore Hole proposed for The FY 2022-23 as per Approved document during RMP period.	29 no. of boreholes drilled. (876 meter) in FY 2022-23	No Backlog
1b	Exploration over lease area for Geological axis 1 or 2.	G1 level	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. 2112424/-	Exploration Agency- Gem Consultant, Expenditure Rs. 2112424/-
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	Balance reserves as on 01.04.2023 is 21.890 Million Tonnes		
1f	General remarks of Inspecting officer on geology, exploration etc.	Entire lease area is explored	l under G1 level of exp	ploration.

2.0 <u>Development:</u>

S.N	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
2a	Location of Development w.r.t. lease area	Pit No. 1 E637741.54 to E639161.96 N2428750.16 to N2429534.71 Pit 1 Ext.	Pit No. 1 E637741.54 to E639161.96 N2428750.16 to N2429534.71 Pit 1 Ext.	The development carried out within the proposed extent as per the proposal
		E636829.96 to E637921.43 N2428142.37 to N2429139.25	E636829.96 to E637921.43 N2428142.37 to N2429139.25	
		Pit No. 2 E639106.48 to E640000 N2428252 to N2429258.78	Pit No. 2 E639106.48 to E640000 N2428252 to N2429257.33	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches proposed.	Separate benches in Ore & OB are maintained.	Soil/OB: 01 no. Ore/Mineral: 04 nos

2c	Stripping ratio or ore to OB ratio	1:0.218T/cu.m	1:0.143 T/cu.m	Due to less production, OB generated less.
2d	Quantity of topsoil generation in m ³	242778 CuM	99633 CuM	Due to less production, top soil generated less.
2e	Quantity of overburden generation in m ³	206994 CuM	72965.00 CuM	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 carri	ied out within approved	l proposal.

3.0 Exploitation:

S. N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
3a	Number of pits proposed for production	03 no.	03 nos.	03 nos. pits.
3b	Quantity of ROM mineral production proposed	2059795 Metric Tonnes	1201762.75 Metric tonnes	Production is carried out as per requirement of its captive plant.
3c	Recovery of Salable/usable mineral from ROM production	100%	100%	Recovery 100%
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/Mechanized method adopted for segregation 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:102-115 mm Spacing: 4.0 m to 5.0 m Burden: 2.0 m to 3.0 m Depth: 6.0 m to 9.0 m
3k	Provision of mining machineries in mineral benches	Shovel and dumper combination	Shovel and dumper combination	Drill Machine 115mm dia, Hydraulic Excavato with 4.0CuM, Dumpers with 35 Metric Tonnes capacity etc.

31	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	204.698 Ha. up to end of RMP Period including backfilling area.	190.504 Ha.Up to end of F.Y. 2022- 23 including backfilling area	190.504 Ha.Up to end of F.Y. 2022-23 including backfilling area
3n	Ore to OB ratio for the pit/mine during the year	1:0.218	1:0.143	Due to less production, OB generated less.
30	Total area put in use under different heads at the end of year	204.698 Ha.	190.504 Ha.	
3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	Yr-2018-19 2047019.00 Yr-2019-20 2021128.00 Yr-2020-21 2025664.00 Yr-2021-22 2060077.00 Yr-2022-23 2059795.00	Yr-2018-19 1691857.00 Yr-2019-20 1775537.00 Yr-2020-21 1326334.41 Yr-2021-22 1405979.54 Yr-2022-23 1201762.75	Production is carried out as per requirement of its captive plant.
3q	General remarks of inspecting officer on method of mining etc	The ROM production proposal.	has been carried out from	om 03 pits as per

4.0 Solid Waste Management-Dumping:

S.N.	Item	Proposals	Actual Work	Remarks
		(2022-23)	(2022-23)	
4a	Separate dumping of topsoil,	Proposal forseparate	Being done as per	Being done as
	OB & mineral reject (Rule	dumping of Topsoil	proposal.	per proposal.
	32,33)	and backfilling of		
		OB, have been given		
		in the approved		
		Document.		
4b	Location of topsoil, OB &	Soil Dump pit-1	Soil Dump pit-1	
	mineral reject dumps	E638045 to	E638045 to	Being done as
		E638227.32	E638227.32	per proposal.
		N2429042.67 to	N2429042.67 to	' ' '
		E2429207.16	E2429207.16	
		Soil Dump Pit-1	Soil Dump Pit-1	
		E638301.85 to	E638301.85 to	
		E638432.61	E638432.61	
		N2429048.86 to	N2429048.86 to	
		N2429122.54	N2429122.54	
		Backfilled Area Pit -2	Backfilled Area Pit -2	
		E639522.48 to	E639522.48 to	
		E639473.40	E639473.40	
		N2429412.91 to	N2429412.91 to	
		N2429307.44	N2429307.44	
		Waste Dump pit-1	Waste Dump pit-1	

		E638306.093 to	E638306.093 to	
		E638721.77	E638721.77	
		N2428950 to	N2428950 to	
		N2429990.33	N2429990.33	
	N 1 65 111 1			D : 1
4c	Number of Dumps within lease	Within Lease Area:	Within Lease Area:	Being done as
	area and outside lease area	Topsoil/OB/Waste:	Topsoil/OB/Waste:	per Proposal
		04 no.	04 no.	
		Mineral Sub-grade:	Mineral Sub-	
		nil	grade:nil	
4d	Location of Dumps w.r.t.	Proposed beyond	Being done as per	Being done as
	ultimate pit limit (Rule 16)	Ultimate pit limit.	Proposal.	per Proposal
4e	Number of Active & Alive	Backfilling is	Backfilling is	Backfilling is
	dumps	proposed.	continue.	continue.
4f	Number of dead dumps	Not proposed.	Nil.	02 dead dumps
	•			exist.
4g	Number of dumps established	Proposal has been	Proposed area has	
	_	given in the	been reclaimed and	
		approved document	plantation over waste	
		for 01 no of dump	dump has been done	
		1	for dump stabilization.	
4h	Whether Retaining wall or	Retaining wall and	Retaining wall &	Retaining wall &
	garland drain all along dumps	garland drain Proposed	Garland drain	Garland drain
	are there		constructed	constructed
4i	Length of Retaining wall or	Proposed	Actual	Retaining wall &
	garland drain all along dump	Retaining wall	Retaining wall	Garland drain
		70L*3W*2.5H	75L*3W*2.5H	constructed
		Garland drain	Garland drain	
		435L*3W*2.5H	438L*3W*2.5H	
4j	Number of settling ponds	Not proposed.	NIL NIL	Nil
4k	Specific commends of	• •	soil, is maintained. Retainin	g wall and garland
	inspecting officer on waste	drain are constructed around the dump.		
	dump management			
	1	ı		

5.0 Solid Waste Management-Backfilling:

	Item	Proposals	Actual Work	Remarks
S.N.		(2022-23)	(2022-23)	
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.	Being done as per proposal given in the approved document	Being done as per proposal given in the approved document
5b	Area under backfilling of mined	0.7	0.466	Concurrent
	out area	Hectare	Hectare	Backfilling is continue.
5c	Concurrent use of topsoil for	Stacking and	Partially Stacking	Partially Stacking
	restoration or rehabilitation of	utilization.	and partially utilized	and partially utilized
	mined out area (Rule 32)		in plantation.	in plantation.
5d	Total area fully reclaimed &	0.7 ha only	0.466Hectare	Concurrent
	rehabilitated	backfilling		Backfilling is
				continue.
5e	General remarks of inspecting officer on backfilling,	Concurrent Backfillin	g of mined out area is bei	ng practiced.

reclamation etc	

6.0 Progressive Mine Closer Plan:

S.N	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly-Rule 26 (2)	As per Rule 26(2) Annual PMCP report to be submitted before 1st day of July of every Year	Submitted for the reporting year	Submitted for the reporting year
6b	Management of worked/mined out benches	1.50.77	1.5.44	
	Area available for rehabilitation (Ha)	1.50 Ha	1.76 Ha	Being done as per Proposal
	Afforestation done (ha)	1.50 Ha	1.76 Ha	Being done as per Proposal
	No. of saplings planted during the year	5000	5695 nos of saplings	Being done as per Proposal
	Cumulative no. of plants	Not specified.	653078 nos	Being done as per Proposal
	Any other specific method of rehabilitation	By Plantation	By Plantation	Being done as per Proposal
	Cost incurred on watch & care during the year	3.0 lakh	7.0 lakh	Being done as per Proposal
6c	Compliance on reclamation and rehabilitation by backfilling Voids available for backfilling (L*B*D) Void filled by waste/tailings Afforestation on the backfilling Rehabilitation by making water reservoir Any other specific means	0.7 Hecta re backf illing	0.466 Hectare	Concurrent Backfilling is continue.
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	Not proposed	Nil.	Nil.
бе	Compliance of Environment monitoring (core zone & buffer zone)	Environmental monitoring proposed	Environmental monitoring carried out at regular interval and observed that all the parameters within the specified standard limit.	Environmental monitoring carried out at regular interval and observed that all the parameters within the specified standard limit.
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations		filling is continue. Ai vater & Noise level m	

7.0 <u>Mineral Conservation:</u>

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	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 sort out at mine	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 dis	patched for its ca	ptive plant.

8.0 Environment:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Yes given	Being done as	Being done as per proposal.
8b	Concurrent use or storage of topsoil	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 33)	Separate dumping of Topsoil, OB backfilling, have been proposed.	Being done as per proposal.	Being done as per proposal.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling area proposed	Concurrent Backfilling is continue.	Concurrent Backfilling is continue.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	0.7 ha. area backfilling	Being done as per proposal.	Being done as per proposal.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Not specified.	2022-23: 5695 Nos. saplings have been be planted over the reclaimed area. Cumulative Sapling-653078 nos	2022-23: 5695 Nos. saplings have been be planted over the reclaimed area. Cumulative Sapling- 653078 nos
8g	Survival rate	Not specified.	Survival rate 80%	Survival rate 80%
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads through water tanker.	Water sprinkling by 25 KL and 9KL water	Water sprinkling by 25 KL and 9KL water tanker

			tanker	
8i	General remarks of inspecting	Aesthetic beauty in and around mines area is maintained by		
	officer on aesthetic beauty in and	plantation.		
	around mine area			

9.0 Compliance of Rule 45:

S N	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	MR submitted upto Nov		
		AR submitted upto F.Y		
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: Moradhwaj Giriya Geologist: AjayPratap Singh Manger: Ritesh Kaimal	Mining Engineer and Geologist appointed	Mining Engineer and Geologist appointed
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 190.504 Ha Reclaimed area- 22.516 Ha. OB/waste dump- 27.613Ha.	Found in order.	Found in order
9d	Scrutiny of Annual return on afforestation	Within lease area: 5000 nos.	Found in order	Found in order
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Mineral reject not generated.	Mineral reject not generated.
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Closing Stock: ROM: NIL Graded Ore: NIL	Found in order.	Found in order
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex- Mine Price: 342.27 Per Metric Tonne Cost of Production: 342.27 Per Metric Tonne	Found in order.	Found in order
9i	Scrutiny of Annual return on Fixed assets	Rs. 198442828	Found in order.	Found in order
9k	Scrutiny of Annual return on mining Machineries	Machineries Shovel, dumpers etc furnished in AR.	Found in order.	Found in order

10- Details of violations observed during last inspection and the compliance status.

No Violation of serious nature is observed during the inspection.

Date:	Signature:
	Name: D. Upadhyay
	Designation: DCOM