

MCDR INSPECTION REPORT**1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting officer & designation	Rajesh Kumar Das Deputy Controller of Mines
2	Accompanying Mine Official with Designation	Ritesh Kaimal DGM (mines) & Naryan Nahak Manager- Chilhati Limestone Mines
3	Date of inspection	07/03/2022
4	Name of the Mine	Chilhati Limestone Mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	1085.365 Hectare Private Land-996.956 ha Government Land-88.409ha Forest Land -Nil
6	Mine Code	38CHG02002
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 Corporation Ltd Arasmeta Cement Plant , Post office Gopalnagar, Tehsil- Akaltra, ,District- Janjgir,-Champa ,Chhattisgarh, Pin: 465663 Phone : 9893019619 ritesh.kaimal@nuvoco.com
9	Village	Chilhati
10	Taluka / Mandal / District	Pachpedi /Masturi /Bilaspur
11	State	Chhattisgarh
12	Post office & PIN	495551
13	Nearest police station	Pachpedi
14	Nearest Railway station	Bilaspur
15	Date of Grant of Mining Lease	13/07/2015
16	Date of Execution	Mining Lease Execution on 22/12/2015 for 50 years from 15/12/2015 to 14/12/2065
17	Date of opening of Mine	19/04/2017
18	Date of first Renewal, if applicable and its period & expiry	NA
19	Date of second Renewal, if applicable and its period & expiry	NA
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	Mr Jayakumar Krishnaswamy Equinox Business Park, Tower -3, East Wing, 4th Floor Off Bandra –Kurla Complex, LBS RoadKurla –West Mumbai-400070 Tel 022-66306511, Fax- 022-66306510 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.Manoj Kumar Agrawal Arasmeta Cement Plant , Post office Gopalnagar, Tehsil- Akaltra, ,District- Janjgir,-Champa ,Chhattisgarh, Pin: 465663 Phone : 9903316020 manoj.agrawal@nuvoco.com Date of appointment : 01/03/2022
23	Name of the Mines Manager	Narayan Nahak

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with Address, phone, email, fax number and date of appointment in mines	Arasmeta Cement Plant , Post office Gopalnagar, Tehsil- Akaltra, ,District- Janjgir, -Champa ,Chhattisgarh, Pin: 465663 Phone : 9893019615 narayan.nahak@nuvoco.com Date of Appointment 01/08/2020
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24	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Narayan Nahak AMIE (MINING) , 24 years Arasmeta Cement Plant , Post office Gopalnagar, Tehsil- Akaltra, ,District- Janjgir, -Champa ,Chhattisgarh, Pin: 465663 Phone : 9893019615 narayan.nahak@nuvoco.com Date of Appointment 01/08/2020
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Resigned, New appointment of Geologist under process
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan 314(3)/2011-MCCM(CZ)/MP-26 for period 2015-16 to 2019-20
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Review of Mining Plan BLS/LST/1221/2019/RAIPUR/545 dt 11.12.2019 For Period 2020-21 to 2024-25
28	Mineral(s) granted in lease and proved for mining	Limestone
29	Method of Mining(Opencast, Underground)	Opencast
30	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
31	Captive/Non Captive	Captive
32	Existing EC Limit and validity	4 MTPA Limestone
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Amount of Financial Assurance Rs. 19746000 submitted the financial assurance -As per rule 27 of MCDR 2017, bank guarantee no I3940100012108 dated 18-12-2019 valid upto 31/03/2025

1.0 Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Proposal 79 Bore holes	Bore hole no 68 and 11 borehole under progress	The exploration proposed in 2019-20 and in 2020-21 no exploration proposed.
1b	Exploration over lease area for Geological axis 1 or 2.	Under G1 Category: 1085.365Ha	Under G1 Category: 1085.365 Ha	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	GEM consultant Bilaspur cost Rs 4678458/-		

1d	Balance area to be explored to bring Geological axis in 1 or 2	Under G1 Category: 1085.365 Ha	Under G1 Category: 1085.365 Ha	
1e	Balance reserves as on 01.04.2021 (in Million Tonnes)	Under (111): 133.456 Million Tonnes Under (122): 12.395 Million Tonnes Under (221): 46.08 Million Tonnes Under (331): 264.25 Million Tonnes	Under (111): 137.519 Million Tonnes Under (122): 12.395 Million Tonnes Under (221): 46.08 Million Tonnes Under (331): 264.25 Million Tonnes	Reserve as on (1/04/2019) under cat 111- 137.939 million tonnes and Production Proposed for, 2019-20 is 3.99 million tones 2020-21 is 0.49 million tonnes but actual production in 2019-20 is 0.2895 million tonnes 2020-21 is 0.1295 million tonnes
1f	General remarks of inspecting officer on geology, exploration etc.	As per exploration reported more than 200 bore holes drilled and lease area explored broadly in G1.The deposit is almost flat and regular deposit.		

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 632861 to E 633203 & N 2410903 and N 2411304 N	E-632860.13 to E-633279.00 and N-2410902.82 to N 2411266.00	Within proposed area
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Separate bench of Limestone and soil	As per proposal	
2c	Stripping ratio or ore to OB ratio	1:0.28	1:0.369	OB- 29548.8 M3 and soil 18336.67 M3
2d	Quantity of topsoil generation in m3	58800	18336.67	
2e	Quantity of overburden generation in tonnes	NIL	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development is on lower side w.r.t. proposal.		

3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	Single pit	Single pit	
3b	Quantity of ROM mineral production proposed	490000	129597.110	
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No mineral reject will be generated during MMP Period.	Not applicable.	

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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	No mineral sub-grade will be Generated during MMP Period.	Not applicable.	
3g	Grade of sub-grade mineral generation	NA	Not applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	NA	Not applicable.	ROM dispatch
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.	Not applicable.	
3j	Provision of drilling & blasting in mineral benches	Yes	Being done per proposal.	
3k	Provision of mining machineries in mineral benches	Yes	Being done per proposal.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Soil 2-3 meter, Limestone 8 meter	Soil avg 2-3 meter, Limestone 5-7 meter	
3m	Total area covered under excavation/pits	24.43 ha. during 5 year mining plan period	7.310 Ha in FY 2020-21	
3n	Ore to OB (m3/T) ratio for the pit/mine during the year	1:0.28	1:0.369	OB-29548.8 M3 and soil 18336.67 M3
3o	Total area put in use under different heads at the end of year	Not mentioned specifically yearwise	Under pit 7.310 Ha., waste disposal 3.48 ha., infrastructure & roads 1.06 ha.	Cumulative till 2020-21
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Yr- 2015-16: 656250 Metric Tonnes Yr- 2016-17: 1378125 Metric Tonnes Yr- 2017-18: 1715625 Metric Tonnes Yr- 2018-19: 2842188 Metric Tonnes Yr- 2019-20: 3992813 Metric Tonnes Yr- 2020-21: 490000 Metric Tonnes	Yr- 2015-16: 0.00 Metric Tonnes Yr- 2016-17: 0.00 Metric Tonnes Yr- 2017-18: 38539 Metric Tonnes Yr- 2018-19: 211201 Metric Tonnes Yr- 2019-20: 289563.360 Metric Tonnes Yr- 2020-21: 129597.110 Metric Tonnes	

3q	General remarks of inspecting officer on method of mining etc.	The method of mining is with open cast mining using HEMM and broadly as per proposal.
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4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	1	1	
4b	Location of topsoil, OB dumps (Range in UTM/Local Coordinate/Plot No./Location)	1- Topsoil E-633619 N- to E 633787 & N 2411056 to N 2410876 2- waste dump E 632753 to E 633135 & N 2412178 to N 2411923	2- Topsoil E-633606.00 N- to E 633773.50 & N 2411020.94 to N2410874.00 2- waste dump E 632886.91 to E633135.00 & N2412064.08 to N2411913.39	With in proposed area
4c	Number of dumps within lease area and outside lease area	One main dump	one	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)			
4e	Number of active & alive dumps	1	1	
4f	Number of dead dumps	0	0	
4g	Number of dumps stabilised	1	1	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	450 meter retaining wall & 575 meter garland drain	Being done per proposal	
4j	Number of settling ponds	1	1	
4k	Specific comments of inspecting officer on waste dump management	The dumping is done as per proposal.		

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	No proposal	Not applicable.	
5b	Area under backfilling of mined out area	No proposal	Not applicable.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Plantation	Not applicable.	
5d	Total area fully reclaimed & rehabilitated	No proposal	Not applicable.	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area not matured for backfilling.		

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	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	NA	NA	
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 mentioned in the approved document	Being done as per proposal.	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	By Plantation 2500 nos	Plantation 2678 Nos	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal has been in the approved document for regular monitoring of environmental parameters at core & buffer zone.	Being done as per proposal.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Broadly as per proposal.		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	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	Being done as per proposal.	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical	NA	NA	
7c	Different grade of mineral sorted out at mines	NA	NA	
7d	Any beneficiation process at mines	No beneficiation process has been proposed in the approved plan during plan period	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The ROM is directly dispatch from mine therefore utilisation of mineral is 100%.		

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 for separate removal of soil and its utilization	Being done as per proposal.	as
8b	Concurrent use or storage of topsoil	Proposal has been given in the approved document for concurrent use of topsoil.	Top is dump along the 7.5 meter safety barrier.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumping of Topsoil and OB 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	No such proposals in 2020-21	NA	
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 during plan period	Being done as per proposal.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	2020-21: 2500 nos Saplings will be planted.	2020-21 : 2678 nos. saplings have been planted	
8g	Survival rate	Not mentioned in the approved document	70%	
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 per proposal.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The lessee is taking care of all environmental preventive measures as per statute i.e Air, Water, Noise, ground vibration monitoring. The plantation is done and dust suppression water sprinkling is done on regular basis. There is no adverse impact observed during mine visit on aesthetic beauty in and around mines area.
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9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto – Feb -2022 A.R. submitted upto- 2020 -21 (FY 2020 - 21)	

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: Naryan Nahak Geologist – Shambhu pal	Mining Engineer: Naryan Nahak Geologist – Shambhu pal (resigned & left)	For Geologist violation pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under pit 7.310 Ha.,waste disposal 3.48 ha.,infrastructure & roads 1.06 ha.	Broadly as given	
9d	Scrutiny of Annual return on Afforestation	Within lease area 2678 nos	Broadly as given	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	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 Graded Ore: NIL	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value: NIL Ex-Mine Price: 448.85 Per Metric Tonne Cost of Production: 448.85 Per Metric Tonne	Sale Value: NIL Ex-Mine Price: 448.85 Per Metric Tonne Cost of Production: 448.85 Per Metric Tonne	
9i	Scrutiny of Annual return on fixed assets	Rs. 769900072/-		
9k	Scrutiny of Annual return on mining machineries	Given in the annual returns		

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- The earlier violations broadly complied except the exploration proposal which is going on. During present inspection for Rule 48 & 55 violation pointed out.

(Rajesh Kumar Das, Deputy Controller of Mines)