

MCDR INSPECTION REPORT

1.0 GENERAL

| SL.N | PARTICULARS | DETAILS |
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| 1 | File No. | 38CHG 06002 |
| 2 | Name & Designation of the inspecting officer | Shri D.Dash Senior Mining Geologist |
| 3 | Date of Inspection | 03.12.2021 |
| 4 | Date of Last Inspection & Officer | 23.07.2021, Shri Rajesh Kumar Das, Senior assistant Controller of Mines |
| 5 | Accompanying mine personnel | 1. Dr. Ajay Pratap Singh, Manager (Geology) 2. Shri Ravikant Yadav, Manager (Mines) |
| 6 | Name of the Mine | Arasmeta Limestone Mine |
| 7 | Total Lease Area (Ha) with breakup of Non-forest and forest land | Total area: 46.292 ha, Non-Forest land- 46.292 ha |
| 8 | Mine code | 38CHG06002 |
| 9 | IBM Registration Number under rule 45 of MCDR, 1988 | IBM/378/2011 |
| 10 | Name of the lessee, Address, phone, email and fax number | M/S Nuvoco Vistas Coporation Limited, Equinox Business Park, Tower 3, East Wing, 4 th Floor, LBS Road, Kurla (west), Mumbai- 400 070, Fax: +91(0) 22-66306510, email_ jayakumar.krishnaswamy@nuvoco.com |
| | Village | Arasmeta |
| | Taluka/Mandal | Akaltra |
| | District | Janjgir Champa |
| | Pincode | 495663 |
| | State | Chhattisgarh |
| | Post office | Gopalnagar |
| 11 | Nearest police station | Mulmula |
| 12 | Nearest Railway station | Akaltra |
| 13 | Date of Grant of Mining Lease | 18.06.1997 to 17.06.2047 |
| 14 | Date of Execution | 18.06.1997 |
| 15 | Date of opening of Mine | 19.11.2003 |
| 16 | Weekly day of rest | Thursday |
| 17 | Date of first Renewal, if applicable and its period & expiry | 18.06.2017 to 17.06.2047 as per Section 8A of MMDR Amendment Act, 2015, mining leases has been extended for 50 years and supplementary lease deed executed on 28.01.2019 |
| 18 | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment | Shri Jayakumar Krishnaswamy, M/s Nuvoco Vistas Corporation Limited, Equinox Business Park, Tower 3, East Wing, 4 th Floor, LBS Road, Kurla (west), Mumbai-400 070, Fax: +91(0) 22-66306510, phone no. 022 66306511 email jayakumar.krishnaswamy@nuvoco.com |

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| 19 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment | Shri Raghavendrarao Jahagirdar, Agent & Plant Head, Arasmeta Cement Plant, M/s Nuvoco Vistas Corporation Limited, P.O. Gopalnagar, Tehsil- Akaltara, District- Janjgir Champa, Chhattisgarh, Phone no. 07817-233234, Fax No. 07817 234237, 234286, mail id- raghavendrarao.jahagirdar@nuvoco.com , date of appointment: 01.07.2020 |
| 20 | Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines | Shri Ravikant yadav, M/s Nuvoco Vistas Corporation Limited, P.O. Gopalnagar, Tehsil- Akaltara, District- Janjgir Champa, Chhattisgarh, mobile no. 7024143400, email- ravikant.yadav@nuvoco.com , date of appointment- 20.10.2021 |
| 21 | Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine | Shri Ravikant yadav, B.E. in Mining with First Class manager certificate of competency, M/s Nuvoco Vistas Corporation Limited, P.O. Gopalnagar, Tehsil- Akaltara, District- Janjgir Champa, Chhattisgarh, mobile no. 7024143400, email- ravikant.yadav@nuvoco.com , date of appointment- 20.10.2021 |
| 22 | Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44. | Shri Ravikant Yadav is appointed as Mining Engineer. However, no Geologist is appointed . Violation of 55 (1) (c) (i) of MCDR, 2017 is pointed out for not appointing a Geologist |
| 23 | Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any. | Review of Mining Plan approved vide letter no. Janjgir-champa/Lst/khayo 1298/2021-raipur dated 07.01.2022 |
| 24 | Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any. | NA |
| 25 | Mineral(s) granted in lease and proved for mining | Limestone |
| 26 | Method of Mining (Opencast, Underground) | Opencast |
| 27 | Category (Fully Mechanized, Others or Manual) | Mechanized |
| 28 | Captive/Non-Captive | Captive |
| 29 | EC for ROM Prod: Date of Issue: | Vide letter no. J-11015/4/2001-1A II (M) dated 03.04.2002 up to 17.06.2047 for 84000 tonnes |
| 30 | FA amount Rs Valid up to: | Rs. 13,97,9500/- 31 st March 2027 |

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 EXPLORATION

| SN | ITEM | PROPOSALS (2020-21) | ACTUAL WORK (2020-21) | REMARKS |
|----|--|---|--------------------------|---|
| 1a | Backlog of previous year | Nil | Nil | Violation of 45(5) (c) of MCDR, 2017 is pointed out for furnishing incorrect information on balance reserves. |
| 1b | Exploration over lease area for Geological axis 1 or 2. | Nil | Not done | |
| 1c | Exploration Agency & Expenditure in lakh Rupees during the year | Nil | Nil | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | Nil | Nil | |
| 1e | Balance reserves as 01.04. 2021 (Million tonnes) | Under 111: 8.8 Under 122: 0.93 Under 211: 2.30 Under 221: 2.12 T | | |
| 1f | General remarks of inspecting officer on geology, exploration etc. | Limestone occurring in the lease area are tabular, stratified and irregular deposit. The lease area has been explored for Limestone by drilling of 28 boreholes covering 46.292 ha area under G1 scale exploration area at a grid interval of 150 to 200m. During the year 2021-22, 06 number of boreholes have been proposed for drilling. | | |

2.0 DEVELOPMENT

| SN | ITEM | PROPOSALS (2020-21) | ACTUAL WORK (2020-21) | REMARKS |
|----|---|--|---|---|
| 2a | Location of development w.r.t. lease area | on north and eastern side(between 636866.4E & 637131.55E) | Not done | Mining operations is yet to be commenced due to lack environment clearance. |
| 2b | Separate benches in topsoil, overburden and mineral (Rule 15) | proposed | Not done. | Reason as above. |
| 2c | Stripping ratio or ore to OB ratio | 1:1.10 | Not applicable since no mining operations done. | Not applicable. |
| 2d | Quantity of topsoil generation in Tonnes | Nil | Nil | Not envisaged in approved Mining plan. |
| 2e | Quantity of overburden generation in m ³ | 81434.5m ³ | Nil | Nil generation due to no mining operations being carried out during the year. |

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| 2f | General remarks of inspecting officer on development of pit w.r.t. type of deposit etc. | Mining operations has not commenced due to lack of environment clearances. |
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3.0 EXPLOITATION

| S.N. | ITEM | PROPOSAL (2020-2021) | ACTUAL WORK (2020-21) | REMARK |
|-------------|--|--|------------------------------|---|
| 3a | Number of pits proposed for production | 1 | Nil | No mining operations carried out. |
| 3b | Quantity of mineral production proposed | 80706 Tonne. | Nil | Same as above. |
| 3c | Recovery of saleable/usable mineral from production | 80706 Tonne. | Nil | Same as above. |
| 3d | Quantity of mineral reject generation | Nil | Nil | No mining operations carried out. |
| 3e | Grade of mineral reject generation and threshold value declared | Nil mineral reject, Threshold value: Cao- 34%(min), Mgo- 5%(max) | Nil | No generation of mineral rejects envisaged in approved Mining plan. |
| 3f | Quantity of sub-grade mineral generation | Nil | Nil | No sub-grade generation envisaged in approved Mining Plan. |
| 3g | Grade of sub-grade mineral generation | Not proposed | Nil | Not envisaged. |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Mechanised method | Mechanised | Bench development by machines |
| 3i | Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject | Not proposed | Not done. | Not applicable. |
| 3j | Provision of drilling & blasting in mineral benches | Yes | Not done | No mining operations done. |
| 3k | Provision of mining machineries in mineral benches | Yes | Not done | No mining operations done. |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Yes | Not done | No mining operations done. |

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| 3m | Total area covered under excavation/pits | 2.3 ha | Nil) | Mining operations have not commenced. |
| 3n | Ore to OB ratio for the pit/mine during the year | 1:1.10 | Nil | Mining operations have not commenced. |
| 3o | Total area put in use under different heads at the end of year | Area under mining: 2.3 ha | Nil | Mining operations have not commenced. |
| 3p | Production of Bauxite mineral during last Three -year period, as applicable | 2018-19 | Nil | Mining operations have not commenced. |
| | | 2019-20 | Nil | |
| | | 2020-21 | Nil | |
| 3q | General remarks of inspecting officer on method of mining etc. | Due to lack of environment clearances, the mining operations are yet to be commenced. | | |

4.0 SOLID WASTE MANAGEMENT-DUMPING

| SN | ITEM | PROPOSALS (2020-21) | ACTUAL WORK (2020-21) | REMARKS |
|----|---|--|-----------------------|--|
| 4a | Separate dumping of topsoil, OB & mineral reject (Rule 32, 33) | Separate waste dump proposed | Not done | Mining operations are yet to commence. |
| b | Location of topsoil, OB & mineral reject dumps | Waste dumping between 637277E & 637321E and 2427845N to 242675N) | Not done. | |
| 4c | Number of dumps within lease area and outside lease area | 01 within lease area | Not done | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Within UPL temporary dump | Not done | |
| 4e | Number of active & alive dumps | 01 | Not done | |
| 4f | Number of dead dumps | Nil | Nil | |
| 4g | Number of dumps stabilized | Nil | Nil | |
| 4h | Whether Retaining wall or garland drain all along dumps are there | Nil | Nil | |
| 4i | Length of Retaining wall or garland drain all along dump | Retaining wall-600m, garland | Nil | |

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| | | drainage- 600m | |
| 4j | Number of settling ponds | Nil | Nil |
| 4k | Specific comments of inspecting officer | No waste dumping carried out since mining operations have not commenced. | |

5.0 SOLID WASTE MANAGEMENT-BACKFILLING

| SN | ITEM | PROPOSALS (2020-21) | ACTUAL WORK (2020-21) | REMARKS |
|----|--|--|-----------------------|--|
| 5a | Status on part or full extraction of mineral from mined out area before starting backfilling | Nil | Nil | No area is envisaged as mined out during the period. |
| 5b | Area under backfilling of mined out area | Nil | Nil | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32) | proposed. | Not done. | |
| 5d | Total area fully reclaimed & rehabilitated | Nil | Nil | |
| 5e | General remarks of inspecting officer on backfilling, reclamation etc | No backfilling is envisaged in approved Mining Plan during the period and also no mining operations have been carried out in the lease area yet. | | |

6.0 PROGRESSIVE MINE CLOSURE PLAN

| SN | ITEM | PROPOSALS (2020-21) | ACTUAL WORK (2020-21) | REMARKS |
|----|--|--------------------------------------|---|--|
| 6a | Whether Annual report on PMCP submitted on time and correctly - Rule 23E (2). Details should be given in the format as given in Annexure-20. | Yes | Not submitted | Violation of Rule 26(2) of MCDR, 2017 is not pointed out since no mining operations are yet to commence in the lease area. . |
| 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 | (i) Not envisaged (ii) Plantation | (i) Nil (ii) Plantation of 1875saplings reported. | Violation Rule 11(1) of MCDR, 2017 is |

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| | iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year | of 2500 saplings proposed (iii) 2500 saplings (iv) Nil proposed (v) Rs3.5 lakh | (iv) No other method adopted. (v) Not furnished | pointed out for not carrying out plantation as proposed. |
| 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 | No area is proposed for backfilling | Nil | Backfilling is not envisaged in approved Mining Plan. |
| 6d | Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation | 500 saplings proposed on dump area | Nil | Mining operations are yet to commence in the lease area. |
| 6e | Compliance of Environmental monitoring (core zone & buffer zone) | Yes | Yes | |
| 6f | General remarks of inspecting officer on PMCP compliance & progressive | Violation of Rule 11(1) of MCDR, 2017 is pointed out for not carrying out plantation as proposed. | | |

7.0 MINERAL CONSERVATION

| SN | ITEM | PROPOSALS (2020-21) | ACTUAL WORK (2020-21) | REMARKS |
|----|--|---------------------|-----------------------|--|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | No sorting proposed | Nil | No processing of run of mine ore is proposed. Run of mine ore is proposed for sizing in crusher situated in outside lease area prior to its consumption in cement plant. |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical | Not proposed | Nil | |
| 7c | Different grade of mineral sorted out at mines | Not proposed | Nil | |
| 7d | Any beneficiation process at mines | Not proposed | Nil | |

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| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | No sorting and sizing proposed within the lease area. The entire run of mine ore is proposed to be transported to crusher situated outside lease area. |
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8.0 ENVIRONMENT

| SN | ITEM | PROPOSALS (2020-21) | ACTUAL WORK (2020-21) | REMARKS |
|----|---|--|--|---|
| 8a | Separate removal and utilization of topsoil (Rule 32) | Separate removal and utilisation top soil is proposed | Nil | Violation of Rule 11(1) of MCDR, 2017 is pointed out for not carrying out plantation as proposed. |
| 8b | Concurrent use or storage of topsoil | proposed | Nil | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | proposed | Nil | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | Not proposed during the year | Nil | |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Not Proposed during the year | Nil | |
| 8f | Baseline information on existence of plantation & additional plantation done (Rule 41) | 2500 saplings | Plantation of 1875 saplings reported in Annual Return. | |
| 8g | Survival rate | 2500 Plants with 60% survival rate | 1875 saplings with 60% survival rate | |
| 8h | Water sprinkling on roads to control airborne dust | Yes | Yes | |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines are | Violation of 11(1) of MCDR, 2017 is pointed out for not carrying out plantation as proposed. | | |

9.0 COMPLIANCE OF RULE 45

| S. N. | Item | Comments | Remarks |
|-------|---|--|--|
| 9a | Status of submission of monthly and Annual returns | M.R. Submitted up to October, 2021. A.R. submitted for the year 2020-21 | Violation of 45(5) (c) of MCDR, 2017 is pointed out for furnishing incorrect/ nil information on(i) Surface area |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Mining Engineer : Shri Bhajan Singh Rawat (However, Shri Ravikant Yadav is appointed as Mining Engineer on 22.10.2021 as notice of appointment received.) . No Mining Geologist appointed. | |

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| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | No information on land sue pattern is furnished. | utilization. (ii) in correct information on Mineral reserves |
| 9d | Scrutiny of Annual return on afforestation | 1875 nos saplings planted during the year | |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade & Quantity) | Nil generation since no mining during the year. | |
| 9f | Scrutiny of Annual return on ROM stock and/or grade ore | Nil Stock. Mining operations is yet commence. | |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price & production costs | Nil | |
| 9i | Scrutiny of Annual return on Fixed assets | Fixed assets is reported as Rs 38120000 for land. | |
| 9k | Scrutiny of Annual return on mining Machinerics | No mining operations commenced. However, a water tanker of 5000 litres capacity is reported. | |

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

Details of the Violations Pointed-out during Inspections:

| नियम | उल्लंघन के प्रकार का ब्यौरा |
|-------------------|---|
| 11(1) | Following violations are observed against proposals in approved Modifications of approved Mining Plan for the period from 2017-18 to 2021-22 approved vide letter no. Janjgir/Lst/Jhoye-1243/2020 dated 28.10.2020. Against proposal to carry out plantation of 2500 saplings during the year 2020-21, plantation of 1875 saplings has been carried out. |
| 26 (2) | A yearly report as per the format specified by Indian Bureau of Mines, before 1st day of July every year setting forth the extent of protective and rehabilitate works carried out has not been submitted for the year 2020-21. |
| 45 (5) (b) | Following information are furnished incorrectly in submitted Monthly Return for the month October, 2021: (i) Number working days is furnished as 25 days although no mining operations carried out during the period. (ii) No information production proposal for current financial year and cumulative production as reported up to current month are furnished. |
| 55 (1) (c) (i) | Whole time Geologist is not appointed |

During previous inspection, violation of Rule 46 and 55 of MCDR, 2017 were pointed out vide this office letter dated 17.10.2019. Notice of appointment of nominated owner and Manager has been submitted to this office on dated 22.10.2021 and thus, the violation of Rule 46 is complied. However, violation of Rule 55 of MCDR, 2017 is the outstanding violation which has been pointed out during the current inspection.

Date:

(D.Dash)

Senior Mining Geologist

