

MCDR INSPECTION REPORT 2024-25**General:**

| Sl No. | Particulars | Details |
|--------|--|--|
| | File No. | |
| 1 | Name of the Mine | Risda-Kukurdi Limestone Mine |
| 2 | Date of Inspection: | 04.07.2024 |
| 3 | Name of Inspecting Officer | Shri Prem Prakash, RCOM, IBM Raipur |
| 4 | Name of official accompanying inspection | Shri Sanjeev Tripathi, Mine Manager |
| 5 | Last date of Inspection & Officer | Shri D Dash, RMG 06.09.2023 |
| 6 | Total Lease Area (Ha) with breakup of Non-forest and forest land | Total Lease area -395.05 Ha. (Non-Forest) |
| 7 | Mine code | 38CHG19001 |
| 8 | IBM Registration Number under rule 45 of MCDR, 1988/2017 | IBM/16679/2013 |
| 9 | Name of the Lessee, Address, Phone, email and fax number | NU Vista Limited, Village-Risda, Tehsil-Balodabazar District-Balodabazar-Bhatapara State-Chhattisgarh, Pin code- 493332 Phone- 07727-223033 Fax-07727-223033 Email-sanjeev.tripathi@nuvoco.com |
| 10 | Village | Risda & Kukurdi |
| 11 | Taluka/Mandal | Balodabazar |
| 12 | District | Balodabazar-Bhatapara |
| 13 | Pin code | 493332 |
| 14 | State | Chhattisgarh |
| 15 | Post Office | Balodabazar |
| 16 | Nearest Police Station | Balodabazar |
| 17 | Nearest Railway Station | Bhatapara |
| 18 | Mining Lease Period | 08.09.2009 to 07.09.59 |
| 19 | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment | Shri Jaykumar Krishnaswamy Date of appointment 02.12.2020, Equinox Business park, Tower 3, East Wing, 4 th Floor, LBS Marg, Kurla (west) Mumbai, Maharashtra-400070. Email- jaykumar.krishnaswamy@nuvoco.com |
| 20 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment | Shri Raju Ramchandran, Village-Risda, NU Vista, Tehsil-Balodabazar District-Balodabazar-Bhatapara State-Chhattisgarh, Pin code- 493332 Date of appointment- 14.06.2022, Email- raju.ramchandran@nuvoco.com |
| 21 | Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines | Shri Sanjeev Tripathi, Village-Risda, NU Vista, Tehsil-Balodabazar District-Balodabazar-Bhatapara State-Chhattisgarh, Pin code- 493332 Date of appointment- 15.05.2020, Phone no. 8825100756 |

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| | | Email-sanjeev.tripathi@nuvoco.com |
| 22 | Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine | Shri Jayprakash Dwivedi, B tech Mining Total Experience – 19 Years Village-Risda, NU Vista, Tehsil-Balodabazar District-Balodabazar-Bhatapara State-Chhattisgarh, Pin code- 493332 Date of appointment- 25.05.2017, Phone no. 7583807064 Email- jaiprakash.dwivedi@nuvoco.com |
| 23 | Name of the Geologist Qualification and total experience with address, phone, email, fax number and date of appointment in the mine. | Name Shri Pankaj Sharma, MSC (Geology) 9522035956 Date of appointment – 10.04.2023 Email-Pankaj.sharma02@nuvoco.com |
| 24 | Date of Approval of Review/Scheme of Mining/Modified Review/Scheme of Mining with five- year period and specific condition in approval letter, if any. | Approved review of Mining Plan Letter No: - RPR/BALODABAZAR/LIMESTONE/1428/RMP/2023-24 Dated 02.04.2024 |
| 25 | Mineral(s) granted in lease and approved for Mining | Limestone |
| 26 | Method of Mining (Opencast, Underground) | Opencast |
| 27 | Category (Fully Mechanized, Others or Manual) | Fully Mechanized |

Scientific Mining: Compliance of proposals of approved Mining Plan/Review of Mining Plan:

1.0 Exploration:

| S.N. | Item | Proposals (2023-24) | Actual (2023-24) | Remarks |
|------|--|---|------------------|--|
| 1a | Backlog of previous year proposals | No proposal | NIL | |
| 1b | Exploration over lease area for Geological axis 1 or 2. | No proposal | NIL | |
| 1c | Exploration Agency & Expenditure in Lakh Rupees during the year | NA | NA | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2. | 11.31Ha | 11.31 Ha | Exploration to be carried out in year 2024-25 as per recent approve Review of Mining Plan. |
| 1e | Balance reserves as on 01.04.2024 (in Million Tonnes) | Under 111: - 246293337 Tonne Under 211: - 168525277 Tonne Under 221:6857953 tonne Under 334:13287500 tonne | | |
| 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 2023-24. Exploration proposal is there during the year 2024-25 to bring entire area under G1 category. Total Reserve + Resource=. 434.964 (Million Tonnes) | | |

2.0 Development:

| S.N | Item | Proposals (2023-24) | Actual (2023-24) | Remarks |
|-----|--|---|---|---|
| 2a | Location of Development w.r.t. lease area | Development proposed in one (01) pit i.e. Main Pit (P3) in between GL:- 2393100 to 2394880 | Carried out in the proposed area. | |
| 2b | Separate benches in topsoil overburden and mineral | Separate benches proposed in OB & mineral | It is observed that the OB benches are not kept sufficiently in advance and found converging with Mineral benches at many places in pit no-3. | Violation under Rule 11(1) issued in this regard. |
| 2c | Stripping ratio or ore to OB ratio | 1:0.06 | 1:0.27 | Tonne: Cum |
| 2d | Quantity of topsoil generation in m ³ | 149220 | 184713 | As reported by the Mines Manager |
| 2e | Quantity of overburden generation in m ³ | 213270 M ³ | 511711 M ³ | Violation under Rule 11(1) issued in this regard. |
| 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, the mine has been developed haphazardly without formation of systematic and regular benches as height of pit benches observed to be 12 to 16 meter at places.. OB benches are not kept sufficiently in advance and found converging with Mineral benches at many places in pit no-3. Violation of Rule 11(1) pointed out in this regard. | | |

3.0 Exploitation:

| S. N. | Item | Proposals (2023-24) | Actual (2023-24) | Remarks |
|-------|--|---------------------|------------------|---|
| 3a | Number of pits proposed for production | 3 pits | 3 pits | |
| 3b | Quantity of ROM mineral production proposed in tonne | 8999751 | 4749610 | |
| 3c | Recovery of Salable/usable mineral from ROM production tonne | 100% | 100% | |
| 3d | Quantity of mineral reject generation tonne | 899975 | Nil | As the reject has been blended and utilized as ore. |

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| 3e | Grade of mineral reject generation and threshold value declared | Below 42.5% Cao above threshold | 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 | Deep hole drilling and blasting practiced in mineral benches Explosive | |
| 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. OB-4 meter, Limestone 10 meter | Bench height and width have not been maintained at places as per proposal | Violation under Rule 11(1) issued in this regard. |
| 3m | Total area covered under excavation /pits | 132.76 Ha. | 105.76 Ha as on 31.03.2024 | |
| 3n | Ore to OB ratio for the pit/mine during the year | 1:0.06 | 1:0.27 | Violation under Rule 11(1) issued in this regard. |
| 3o | Total area put in use under different heads at the end of year | 256.72 Ha. up to end of RMP period . | About 170.055 ha. | |
| 3p | Production of ROM mineral during last five-years period, as Applicable (tonne) | 2019-20: 6500325 2020-21: 8249838 2021-22:8999774 2022-23:8999711 2023-24:8999751 | 2019-20: 4842933 2020-21:4815985 2021-22:4492338 2022-23:4595875 2023-24:4749610 | (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 not maintaining systematic & regular benches as envisaged in the approved RMP. | | |

4.0 Solid Waste Management-Dumping:

| S.N. | Item | Proposals (2023-24) | Actual (2023-24) | Remarks |
|------|--|---|---|---------|
| 4a | Separate dumping of topsoil, OB & mineral reject | Separate dumping proposed for topsoil, OB and | Separate dumping for topsoil, OB/Waste carried out. | |

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| | | screen/mineral reject | | |
| 4b | Location of topsoil, OB & mineral reject dumps | Topsoil Dump E615775-616345 N2393521- 2393494 OB Dump E616033-616211 N2393697- 2393864 Screen Reject dump E614337-614529 N2393125- 2393270 | Dumping carried out within & outside proposed area. | Waste dumping has been carried out, over the 7.5 m safety zone and even beyond the lease boundary near to boundary pillar No 125,126,127, 128 & 129 by extending the existing Dumps. Violation under Rule 11(1) issued in this regard. |
| 4c | Number of dumps within lease area and outside lease area | 2 nos. Soil dump 2 nos. OB dump 1 no screen/mineral reject dump (no dump outside the lease area) | 2 nos. Soil dump 2 nos. OB dump 1 no screen/mineral reject dump | |
| 4d | Location of Dumps w.r.t. ultimate pit limit | Proposed within UPL | All dumps are within UPL | |
| 4e | Number of Active & Alive dumps | 1 no. Top soil dump 1 no. OB dump 1 no. screen/mineral reject | 1 no. Top soil dump 1 no. OB dump 1 no. screen/mineral reject | |
| 4f | Number of dead dumps | 1 no. Top soil dump (N21°38'5.92" E82° 6'24.13") 1 no. OB dump (N21°38'12.97" E 82° '22.55") | 1 no. Top soil dump (N21°38'5.92" E82° 6'24.13") 1 no. OB dump (N21°38'12.97" E 82° 6'22.55") | |
| 4g | Number of dumps stabilized | 1 no. OB dump (N21°38'12.97" E 82° 6'22.55") 1 no. Top soil dump (N21°38'5.92" E82° 6'24.13") | 1 no. OB dump (N21°38'12.97" E 82° 6'22.55") 1 no. OB dump (N21°38'12.97" E 82° 6'22.55") | |

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| 4h | Whether Retaining wall or garland drain all along dumps are there | Yes | Garland drain & toe bund Constructed & carried out for the year 2023-24 as proposed. | |
| 4i | Length of Retaining wall or garland drain all along dump | Toe-bund 520 m x 2m x 1m Garland Drain 535m x 1m- 2m x 1m Proposed for soil dump 1nos Check dam 10mx2mx1m | Carried out as proposed. | . |
| 4j | Number of settling ponds | No Proposal | NIL | |
| 4k | Specific commends of inspecting officer on waste dump management | Terracing of waste dumps: (Dump -1)& (Dump-4) have not been carried out at regular interval of 10 meters as envisaged; although height of these dumps observed to be more than 32 meters & 20 meters respectively. Violation under Rule 11(1) issued in this regard.. | | |

5.0 Solid Waste Management-Backfilling:

| S.N. | Item | Proposals (2023-24) | Actual (2023-24) | Remarks |
|------|--|--|--|--|
| 5a | Status on part or full extraction of mineral from mined out area before starting backfilling | No Proposal | Backfilling has been carried in some part of Pit no- 2 without such proposal in the RMP. | Violation under Rule 11(1) issued in this regard |
| 5b | Area under backfilling of mined out area | No Proposal | -do- | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mined out area | No Proposal | NIL | |
| 5d | Total area fully reclaimed & rehabilitated | No Proposal | NIL | |
| 5e | General remarks of inspecting officer on backfilling, reclamation etc. | The area is not fully exhausted for backfilling, reclamation, etc. However Backfilling has been carried in some part of Pit no- 2 without such proposal in the RMP. Violation under Rule 11(1) issued in this regard | | |

6.0 Progressive Mine Closer Plan:

| S.N | Item | Proposals (2023-24) | Actual (2023-24) | Remarks |
|-----|---|---|--|---|
| 6a | Whether Annual report on PMCP submitted on time and correctly-Rule 26 (2) | To be submitted before 1st of July every Year | PMCP report received in time. | Annual report submitted on 28.06.2024. |
| 6b | Management of worked/mined out benches | | | |
| | Area available for rehabilitation (Ha) | No Proposal | NIL | |
| | Afforestation done (ha) | 1.94 | 3.14 | |
| | No. of saplings planted during the year | 2156 | 3032 | |
| | Cumulative no. of plants | - | 73860 | |
| | Any other specific method of rehabilitation | No Proposal | NIL | |
| | Cost incurred on watch & care during the year | | Rs 2,94,670/- | |
| 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 | No Proposal | NIL | No area has matured for reclamation and rehabilitation purposes |
| 6d | Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation | No Proposal | NIL | |
| 6e | Compliance of Environment monitoring (core zone & buffer zone) | Environmental monitoring proposed | Environmental monitoring 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. | | |

7.0 Mineral Conservation:

| S.N. | Item | Proposals (2023-24) | Actual (2023-24) | 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 | |

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| 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 (2023-24) | Actual (2023-24) | Remarks |
|------|--|--|--|---|
| 8a | Separate removal and utilization of topsoil | 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 | |
| 8c | Separate dumps for overburden waste rock, rejects and fines | 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 | 2156 Nos samplings proposed within lease | 3032 Nos. saplings planted within lease an | 2200 nos saplings reported planted outside the lease area |
| 8g | Survival rate | Not specified | 90% | |
| 8h | Water sprinkling on roads to control airborne dust | 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 maintained by doing plantation. | | |

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 :- 2023-24 | | |
| 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 Jayprakash Dwivedi Date of appointment- 25.05.2017 Geologist – Shri Pankaj Sharma, Date of appointment – 10.04.2023 | Employed. | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Current working – 105.76 Ha Reclaimed/rehabilitated – 0.00 Ha Waste Dump – 13.26 Ha Top soil storage – 4.29 Ha Infrastructure, crushing & Roads – 16.26 Ha Others (water harvesting, plantation) – 26.328 | Current working – 105.76 Ha | As reported in AR 2023-24 |
| 9d | Scrutiny of Annual return on afforestation | 3032 nos. of sapling within ML area with 90 % survival rate and 2200 nos. of saplings outside lease area with 50 % survival rate | As reported in AR | |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade & Quantity) | Nil | As reported in AR | |
| 9f | Scrutiny of Annual return on ROM stock and/or grade ore | ROM Opening Stock-Nil Production: 4749610 Closing Stock: Nil | ROM Opening Stock-Nil Production: 4749610 Closing Stock: Nil | As reported in AR |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price & production costs | Ex-Mine price and cost of production- Rs. 294.67 /Tonne Sale value- Nil | Captive consumption | |
| 9i | Scrutiny of Annual return on Fixed assets | Rs. 2964741282 Including Land, Building & Plant and Machinery | Rs. 2964741282 Including Land, Building & Plant and Machinery | As reported in AR 2023-24 |
| 9k | Scrutiny of Annual return on mining Machineries | Shovel PC1250 -3 nos with 6.5CUM Shovel – 3 nos. 1.7CUM Dumper – 6 nos. 55 tons | Observed deployed | |

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| | | Dumper – 2 nos. 60 tons Dozer – 320HP-02 Crusher – 1200TPH Rock Drill-03 Tipper -21 Shovel (Hydraulic- 2.650)-03 nos | | |
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10- Status of compliance of MCDR, 2017 including therewith the rectification of outstanding violation of the rules.

- (i) No violation pointed during previous inspection.
- (ii) Violation of Rule 11(1), 31(4) and 45(7) 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