

MCDR INSPECTION REPORT (2023-24)

File no MCDR-MiFLOFE/2/2022-BNG-IBM_RO_BNG

| S. N. | Particulars | Details |
|--------------|---|---|
| 1 | Name of the Mine | John iron ore Mine of Shri Ramamurthy Praveen Chandra |
| 2 | Total Lease Area (Ha) with breakup of Non- forest and forest land | Total area-42.13 ha, Forest Land – 42.13Ha Non-Forest Land – Nil |
| 3 | Mine code | 30KAR07015 |
| 4 | IBM Registration Number under rule 45 of MCDR, 1988 | IBM/167/2011 |
| 5 | Name of the lessee, Address, phone, email, and fax number | R. Praveen Chandra, No. 4006, ERM House, K.R. Road, Banashankari 2 nd Stage, Bengaluru |
| 6 | Village | Megalahalli, Tanigehalli & Chowdenahalli. |
| 7 | Taluk/Mandal | Chitradurga & Holalkere Taluks, |
| 8 | District | Chitradurga District |
| 9 | Pin code | 577541 |
| 10 | State | Karnataka |
| 11 | Post office | Sirigere |
| 12 | Nearest police station | Bharmasagara |
| 13 | Nearest Railway station | Chitradurga |
| 14 | Date of Grant of Mining Lease | 04.02.1977 |
| 15 | Date of Execution | 04.02.1977 |
| 16 | Date of opening of Mine | 1977 |
| 17 | Date of expiry | 03.02.2027 |
| 18 | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment | Nil |
| 19 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment | Nil |
| 20 | Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines | Sri Ranadive. N, Mines Manager, John Mine of R. Praveen Chandra, Sirigere Post, D. Medikeripura, Chitradurga - 577541 Phone: +919448280880 Email: ranadive@ermgroup.in , |

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| | | w.e.f. 19-04-2013 |
| 21 | Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine | Sri Dhananjaya G. Reddy B.E (Mining), FCC; Experience - 29 years John Mine of R. Praveen Chandra Mobile: +919449842341 Email: ghananjaya@ermgroup.in w.e.f. 01.02.2008 |
| 22 | Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44 | Yes, Sri Vinayaka B S - Geologist Sri Dhananjaya G. Reddy - Mining Engineer |
| 23 | Date of Approval of Scheme of Mining/ Modified Scheme of Mining with five-year period and specific condition in approval letter, if any. | Modification to the approved Review and Updation of Mining Plan vide letter No 279/174/90/BNG dated 03-02-2023 for the period 2022-23(01/11/2022 to 31/03/2023) to 2026-27(upto 03/02/2027) |
| 24 | Mineral (s) granted in lease and proved for mining | Iron Ore |
| 25 | Method of Mining (Opencast, Underground) | Opencast |
| 26 | Category (Fully Mechanized, Others or Manual) | Fully Mechanized |
| 27 | Captive/ Non captive | Non captive |
| 28 | Date of inspection | 11.06.2024 |
| 29 | Name of accompanying mine officials with designation | Shri. Dhananjaya G. Reddy, Mining Engineer, Shri Ranadive. N, Mine Manager, Shri Vinayaka B.S., Geologist and other mine officials |

Exploration

| S.N. | Item | Proposals | Actual work | Remarks |
|------|---|----------------|----------------|---------|
| 1a | Backlog of previous year | No proposal | Nil | Nil |
| 1b | Exploration over lease area for Geological axis 1 or 2. | No proposal | Nil | Nil |
| 1c | Exploration Agency & Expenditure in lakh Rupees during the year | No proposal | Nil | Nil |
| 1d | Balance area to be explored to | G-1- 20.74 ha, | G-1- 20.74 ha, | Lateral |

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| | bring Geological axis in 1 or 2 | Non mineralized area- 21.39 ha. | Non mineralized area- 21.39 ha. | extent completed under G-1 level. For checking the vertical continuity of the ore body 12 nos. of exploratory boreholes incorporated in the modified mining plan. |
| 1e | Balance reserves as on <u>01.04.2024</u> | 37,365,664 tonnes as on 01.04.2023 (Haematitic iron ore with avg grade 57 % Fe & 12074809 tonnes of HSIO with avg grade 39 % Fe. | 35,899,294 tonnes as on 1.04.2024 (After depletion of Production) | Depleted Reserves from 01.04.2023 to 31.03.2024 is 14,66,370 tons |
| 1f | General remarks of inspecting officer on geology, exploration etc. | i)No Exploratory proposals for the year 2023-24. ii) Lateral extent completed under G-1 level of exploration. For checking the vertical continuity of the ore body 12 nos. of exploratory boreholes incorporated in the modified mining plan | | |

Development

| S.N. | Item | Proposals | Actual work | Remarks |
|------|---|--------------------------------|---------------------------------|----------------------------------|
| 2a | Location of development w.r.t. lease area | Section A-A' to P-P'-916-867RL | Section A-A' to P-P'. 916-874RL | The workings are well within the |

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| | | | | proposed extent. |
| 2b | Separate benches in topsoil, overburden, and mineral (Rule 15) | Proposal of Separate benches in overburden and mineral | Developed and maintained separate benches in Over Burden and mineral. | In ore 6 Benches & in waste 4 benches are maintained. Height of bench maintained 7m in both OB and mineral. |
| 2c | Stripping ratio or ore to OB ratio | 1:0.16 proposed in tons | 1:0.30 achieved in tons (Ore- 1,466,370 tons Waste- 445,313 tons) | Due to decrease in the width of ore/intermittent waste body the waste handling increased. |
| 2d | Quantity of topsoil generation in m3 | No proposal | Nil | Nil |
| 2e | Quantity of overburden generation in m3 | 175,297 Cum proposed | 261,949 Cum achieved | Due to decrease in the width of ore/intermittent waste body the waste handling increased. |
| 2f | General remarks of inspecting officer on development of pit w.r.t. type of deposit etc. | Development carried out within the proposed extent as per the proposal. | | |

Exploitation

| S.N. | Item | Proposals | Actual work | Remarks |
|------|--|-------------------------------|-------------------------------|---------|
| 3a | Number of pits proposed for production | One existing pit proposed for | Actual working carried out in | Nil. |

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| | | production. (Pit-1) | one existing pit. (Pit-1) | |
| 3b | Quantity of ROM mineral production proposed | 1,799,949 tons of ROM proposed for production | 1,466,370 tons of ROM production achieved for the year 2023-24 | CEC permitted MPAP for the FY 2023-24 was 14,66,400 tons. |
| 3c | Recovery of salable/usable mineral from ROM production | 100 % proposed | 100 % achieved. | Nil |
| 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 | Nil | Nil | |
| 3h | Manual / Mechanized method adopted for segregating from ROM | Mechanized method by dry crushing and screening of ROM | Dry Crushing & Screening carried out as per the proposal | Crushing plant – 01 Jaw (Primary) & 1 (Secondary) crusher of 300TPH. |
| 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 & Blasting conducted at the hard band of ore body only | Drill-100 mm-1 no. Slurry Explosives |
| 3k | Provision of mining machineries in mineral benches | Excavators-6 no's Dumpers-14 | Excavators-7 no's Dumpers-14 | Nil. |

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| | | no's Wheel Loader- 4 no's Drill-1 no | no's Wheel Loader- 6 no's Drill-1 no Water Tanker-6 no's | |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Yes. Proposal of 7 meters height in Ore and Over Burden. | Bench height maintained 7 meters in Ore and Overburden | Bench height and width maintained. |
| 3m | Total area covered under excavation/pits | 20.74Ha proposed as per approved mine plan document dtd 03/02/2023. | 20.74Ha as on 01/04/2024. | Nil |
| 3n | Ore to OB ratio for the pit/mine during the year | 1:0.16 proposed in tons | 1:0.30 achieved in tons (Ore- 1,466,370 tons Waste- 445,313 tons) | Due to decrease in the width of ore/intermittent waste body the waste handling increased. |
| 3o | Total area put in use under different heads at the end of year | Mining: 20.74 Ha, Waste Dump: 9.32 Ha, Infrastructure & roads including mineral storage: 9.16 Ha. | Mining: 20.74 Ha, Waste Dump: 9.32 Ha, Infrastructure & roads including mineral storage: 9.16 Ha. | As per approved mine plan document dtd 03/02/2023. |
| 3p | Production of ROM mineral during last five-year period, as applicable | 2019-20: 7,50,000 2020-21: | 2019-20: 7,49,970 2020-21: | MPAP for the FY 2023-24 was 14,66,400 tons. |

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| | | 14,00,000 | 13,29,970 | |
| | | 2021-22: | 2021-22: | |
| | | 14,00,000 | 13,28,570 | |
| | | 2022-23: | 2022-23: | |
| | | 13,99,991 | 13,99,850 | |
| | | 2023-24: | 2023-24: | |
| | | 17,99,949 | 14,66,370 | |
| | | (in tons) | (in tons) | |
| 3q | General remarks of inspecting officer on method of mining etc. | The development and production carried out within the proposed extent of the pit-1 as per the proposal. The mine benches both in OB and mineral are maintained as per proposal. | | |

Solid Waste Management-Dumping

| S.N. | Item | Proposals | Actual work | Remarks |
|------|--|--|--|--|
| 4a | Separate dumping of topsoil, OB & mineral reject (Rule 32, 33) | Proposal of separate dumping of Over Burden proposed at dump AD-1. | Separate waste dumping carried out at waste dump AD-1 | It is observed during inspection that waste dumping at AD-1 dump for the year 2023-24 from Section J-J' to Section L-L' (N-1573579, E-629929 to N-1573491, E-629985) has been carried beyond the proposed maximum top vertical limit of 901 mRL, till 915 mRL. Violation issued under Rule 11(1) of MCDR 2017. |
| 4b | Location of topsoil, OB & mineral reject dumps | Proposal of separate dumping of Over Burden proposed at dump AD-1. No topsoil and mineral reject dumps | Separate waste dumping carried out at waste dump AD-1. It is also observed during inspection that mineral stacks | i)It is observed during inspection that waste dumping at AD-1 dump for the year 2023-24 from Section J-J' to Section L-L' (N-1573579, E- |

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| | | | were located between Section L-L' to M-M' (N-1573482, E-629977 to N-1573423, E-629980) which is the earmarked location for waste dumping. | 629929 to N-1573491, E-629985) has been carried beyond the proposed maximum top vertical limit of 901 mRL, till 915 mRL. Violation issued under Rule 11(1) of MCDR 2017. ii) It is also observed during inspection that mineral stacks were located between Section L-L' to M-M' (N-1573482, E-629977 to N-1573423, E-629980) which is the earmarked location for waste dumping. Violation issued under Rule 11(1) of MCDR 2017. |
| 4c | Number of dumps within lease area and outside lease area | 2 waste dumps within lease. AD-1(Active) & ID-1(In active) | 2 waste dumps within lease. AD-1(Active) & ID-1(In active) | Nil |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Outside UPL as per the current exploration data | Outside UPL | Nil |
| 4e | Number of active & alive dumps | One Active Dump-AD-1 | One Active Dump-AD-1 | Nil |
| 4f | Number of dead dumps | One dead dump-ID-1 | One dead dump-ID-1 | Nil |
| 4g | Number of dumps stabilized | No proposal | Nil | Nil |
| 4h | Whether Retaining wall or garland drain all along dumps are there | 160 m Retaining wall and 160 m garland drain proposed for the year 2023- | Nil. | The construction of 160 metres Retaining wall & 160 metres garland drain were proposed |

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| | | 24. | | along waste dump AD-1 for the year 2023-24. The same has not been constructed. Violation issued under Rule 11(1) of MCDR 2017. |
| 4i | Length of Retaining wall or garland drain all along dump | 160 m Retaining wall and 160 m garland drain proposed for the year 2023-24. | Nil. | The construction of 160 metres Retaining wall & 160 metres garland drain were proposed along waste dump AD-1 for the year 2023-24. The same has not been constructed. Violation issued under Rule 11(1) of MCDR 2017. |
| 4j | Number of settling ponds | No proposal | Nil | Nil |
| 4k | Specific comments of inspecting officer on waste dump management. | <p>i) It is observed during inspection that waste dumping at AD-1 dump for the year 2023-24 from Section J-J' to Section L-L' (N-1573579, E-629929 to N-1573491, E-629985) has been carried beyond the proposed maximum top vertical limit of 901 mRL, till 915 mRL. Violation issued under Rule 11(1) of MCDR 2017.</p> <p>ii) It is also observed during inspection that mineral stacks were located between Section L-L' to M-M' (N-1573482, E-629977 to N-1573423, E-629980) which is the earmarked location for waste dumping. Violation issued under Rule 11(1) of MCDR 2017.</p> <p>iii) The construction of 160 metres Retaining wall & 160 metres garland drain were proposed along waste dump AD-1 for the year 2023-24. The same has not been constructed. Violation issued under Rule 11(1) of MCDR 2017.</p> | | |

Solid Waste Management-Backfilling

| S.N. | Item | Proposals | Actual work | Remarks |
|------|--|--------------|-------------|---------|
| 5a | Status on part or full extraction of mineral from mined out area before starting backfilling | No proposal. | Nil | Nil |
| 5b | Area under backfilling of mined out area | No proposal | Nil | Nil |

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| | | l. | | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32) | No proposal. | Nil | Nil |
| 5d | Total area fully reclaimed & rehabilitated | No proposal. | Nil | Nil |
| 5e | General remarks of inspecting officer on backfilling, reclamation etc. | No Backfilling proposals. | | |

Progressive Mine Closure Plan

| S.N. | Item | Proposals | Actual work | Remarks |
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| 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. | To be submitted before 1 st of July every year. | Yet to be submitted on date of inspection. | Nil |
| 6b | Area available for rehabilitation (ha) | 0.17 ha afforestation proposed on Active waste dump (AD-1). | 0.17 ha afforestation carried on AD-1 as per the proposal. | As per proposal. |
| 6c | Afforestation done (ha) | 0.17 ha afforestation proposed on Active waste dump (AD-1). | 0.17 ha afforestation carried on AD-1 as per the proposal. | As per the proposal. |
| 6d | No. of saplings planted during the year | 425 nos. of plants proposed. | 1000 nos. of plants planted within ML area with 50 % survival rate. | As reported by the Lessee during inspection. |
| 6e | Cumulative no. of plants | 58222 nos. as on 01.04.2023 | 58722 nos. as on 01.04.2024 | As reported by the Lessee during inspection. |

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| 6f | Any other specific method of rehabilitation | 1.97 ha coir matting proposed at AD-1. | Coir matting carried out as per the proposal. | Nil |
| 6g | Cost incurred on watch & care during the year | Rs. 73525 proposed for afforestation | As per proposal | Nil |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D) | No proposal | Nil | Nil |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings | No proposal | Nil | Nil |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area | No proposal | Nil | Nil |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | No proposal | Nil | Nil |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means | No proposal | Nil | Nil |
| 6m | Compliance of Rehabilitation of waste land within lease (i) Afforestation | No proposal | Nil | Nil |
| 6n | Compliance of Rehabilitation of waste land within lease (ii) Area | No proposal | Nil | Nil |

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| | rehabilitated (ha) | | | |
| 6o | Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation | No proposal | Nil | Nil |
| 6p | Compliance of Environmental monitoring (core zone & buffer zone) | Environment Monitoring proposed in both Core and Buffer zone | The Environment Monitoring in Core and Buffer zone for air, water, noise & soil carried out as per the proposal. Monitoring report of Mar-24 available during inspection. Parameters within limit. | Nil. |
| 6q | General remarks of inspecting officer on PMCP compliance & progressive closure operations | PMCP proposals related to afforestation, Environmental monitoring etc. carried out as per the proposal. | | |

Mineral Conservation

| S.N. | Item | Proposals | Actual work | Remarks |
|------|--|--|--|--|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | Only dry crushing & Screening Proposed | Production 2023-24 are as follows Lumps: <u>Grade:</u> <u>Production Qty in tons</u> 51-55:12,000 58-60: 24,000 60-62: 61,996 62-65: 1,72,970 Fines: <u>Grade: Qty in tons</u> 55-58: | As reported by the Lessee during inspection. |

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| | | | 1,155,404 60-62: 40,000 | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical | Only dry crushing & Screening Proposed (Mechanical) | Production 2023-24 are as follows Lumps: <u>Grade: Production Qty in tons</u> 51-55:12,000 58-60: 24,000 60-62: 61,996 62-65: 1,72,970 Fines: <u>Grade: Qty in tons</u> 55-58: 1,155,404 60-62: 40,000 | As reported by the Lessee during inspection. |
| 7c | Different grade of mineral sorted out at mines | Proposed ROM grade range as per the approved document 54-58 % | Production 2023-24 are as follows Lumps: <u>Grade: Production Qty in tons</u> 51-55:12,000 58-60: 24,000 60-62: 61,996 62-65: 1,72,970 Fines: <u>Grade: Qty in tons</u> 55-58: 1,155,404 60-62: 40,000 | As reported by the Lessee during inspection. |
| 7d | Any beneficiation process at mines | No beneficiation proposal | Nil | Nil |
| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | There is only dry crushing and screening carried out inside the mine. The mineral conservation activities carried out inside mine as per proposal. | | |

Environment

| S. N. | Item | Proposals | Actual work | Remarks |
|----------|--|---|---|---|
| 8a | Separate removal and utilization of topsoil (Rule 32) | No proposal | Nil | Nil |
| 8b | Concurrent use or storage of topsoil | No proposal | Nil | Nil |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Separate dumping proposed for OB at dump-AD-1 | Separate waste dumping carried out at AD-1. | <p>i) It is observed during inspection that waste dumping at AD-1 dump for the year 2023-24 from Section J-J' to Section L-L' (N-1573579, E-629929 to N-1573491, E-629985) has been carried beyond the proposed maximum top vertical limit of 901 mRL, till 915 mRL. Violation issued under Rule 11(1) of MCDR 2017.</p> <p>ii) It is also observed during inspection that mineral stacks</p> |

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| | | | | were located between Section L-L' to M-M' (N-1573482, E-629977 to N-1573423, E-629980) which is the earmarked location for waste dumping. Violation issued under Rule 11(1) of MCDR 2017. |
| 8d | Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use | No Proposal | Nil | Nil |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.) | No Proposal | Nil | Nil |
| 8f | Baseline information on existence of plantation & additional plantation done (Rule 41) | 58222 nos. as on 01.04.2023 | 58722 nos. as on 01.04.2024 | As reported by the Lessee during inspection. |
| 8g | Survival rate | 75% proposed | 50% achieved | As reported by the Lessee during inspection. |
| 8h | Water sprinkling on roads to control | Dust suppression | On haul roads Static sprinklers | 8 KL water sprinkler- 4 nos., |

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| | airborne dust | using water sprinkler proposed. | have been fixed. 6 no's water tankers are engaged for water spraying to control airborne dust. | 10 KL water sprinkler-1 no., 14KL water sprinkler-1 no. |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | The aesthetic beauty in and around the mines looks very good | | |
| Compliance of Rule 45 | | | | |
| S. N. | Item | COMMENTS | | Remarks |
| 9a | Status of submission of Monthly and Annual returns | M.R. Submitted up to May-2024 on 08.06.2024 ***** A.R. yet to be submitted for FY 2023-2024 on dated of inspection. | | Nil |
| 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 | AR 2023-24 yet to be submitted on date of inspection | AR 2023-24 yet to be submitted on date of inspection | Nil |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | AR 2023-24 yet to be submitted on date of inspection | AR 2023-24 yet to be submitted on date of inspection | Nil |

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| 9d | Scrutiny of Annual return on afforestation | AR 2023-24 yet to be submitted on date of inspection | AR 2023-24 yet to be submitted on date of inspection | Nil |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade & quantity) | AR 2023-24 yet to be submitted on date of inspection | AR 2023-24 yet to be submitted on date of inspection | Nil |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | AR 2023-24 yet to be submitted on date of inspection | AR 2023-24 yet to be submitted on date of inspection | Nil |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price & production cost | AR 2023-24 yet to be submitted on date of inspection | AR 2023-24 yet to be submitted on date of inspection | Nil |
| 9i | Scrutiny of Annual return on fixed assets | AR 2023-24 yet to be submitted on date of inspection | AR 2023-24 yet to be submitted on date of inspection | Nil |
| 9k | Scrutiny of Annual return on mining machineries | AR 2023-24 yet to be submitted on date of inspection | AR 2023-24 yet to be submitted on date of inspection | Nil |

Details of violations observed during current inspection and compliance position of violation pointed out

| <u>Violation observed</u> | | | <u>Show cause position</u> | | |
|---------------------------|------------|---------------|----------------------------|-----------|---------------|
| Rule No. | Issued on | Compliance on | Rule No. | Issued on | Compliance on |
| 11(1) | 26/06/2024 | 29/08/2024 | Nil | – | – |

(संदीप कुमार सिंह. /Sandeep Kumar Singh)
वरिष्ठ सहायक खान नियंत्रक/ Senior Assistant Controller of Mines