

MCDR INSPECTION REPORT (2023-24)**File no: MCDR-MiFL0FE/14/2023-BNG-IBM_RO_BNG**

| S. N. | Particulars | Details |
|--------------|--|--|
| 1 | Name of the Mine | Ramgad Iron Ore Mine/ML No.2547 |
| 2 | Total Lease Area (Ha) with breakup of Non-forest and forest land | 49.73 ha, Forest- 49.73 ha, Non-Forest -Nil |
| 3 | Mine code | 30KAR03160 |
| 4 | IBM Registration Number under rule 45 of MCDR, 1988 | IBM/1010/2011 |
| 5 | Name of the lessee, Address, phone, email and fax number | M/s Zeenath Transport Company #24,Zeenath House, Cowl Bazar Dist : Ballari, State: Karnataka Pin Code-583102 Ph. No. 08392-240084/240085 Fax No. 08392-240462 Email : ztco2000@yahoo.com |
| 6 | Village | Ramgad |
| 7 | Taluk/Mandal | Sandur |
| 8 | District | Ballari |
| 9 | Pincode | 583119 |
| 10 | State | Karnataka |
| 11 | Post office | Sandur |
| 12 | Nearest police station | Sandur |
| 13 | Nearest Railway station | Yeshwanth nagar |
| 14 | Date of Grant of Mining Lease | 27/04/2007 |
| 15 | Date of Execution | 27/04/2007 |
| 16 | Date of opening of Mine | 18/01/2008 |
| 17 | Date of expiry | 26/04/20057 |
| 18 | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment | Mr. Syed Ahmed M/s Zeenath Transport Company, #24 Zeenath house, Cowl bazaar, Bellary- 583102. Ph No: 0839224008 FAX-08392240462 Email: ztco2000@yahoo.com |
| 19 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment | Mr. Syed Aslam M/s Zeenath Transport Company, #24 Zeenath house, Cowl bazaar, Bellary- 583102. Ph No: 0839224008 FAX-08392240462 Email: ztco2000@yahoo.com |

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| 20 | Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines | Mr. J. Srikanth, B.E Mining with First class Mines Manager Certificate. L.B Colony, Behind Court. Sandur-583119 Ph No: 9449861137 Email: jaladi_srikanth@rediffmail.com Date of appointment: -11.05.2009 |
| 21 | Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine | Mr. J. Srikanth B.E Mining with First class Mines Manager Date of appointment-01.10.2018 |
| 22 | Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44. | Rashmi Ranjan Sahu M.Sc Geology) Date of appointment -21.11.2022 Ph No.- 9776770291 Email- rashmiranjansahu353@gmail.com |
| 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 of mining plan approved by IBM vide letter no. 279/419/94/BNG dated 18/09/2023 for the period 2023-24 to 2026-27 |
| 24 | Mineral(s) granted in lease and proved for mining | Iron ore |
| 25 | Method of Mining (Opencast, Underground) | Open-cast Mine. |
| 26 | Category (Fully Mechanized, Others or Manual) | A-Fully Mechanized |
| 27 | Captive/ Non captive | Non-Captive |
| 28 | Date of previous inspection | 05.07.2023 |
| 29 | Date of inspection | 23.08.2024 |
| 30 | Name of accompanying mine officials with designation | Shri J Srikanth, Mines Manager & Mining Engineer, Shri Rashmi Ranjan Sahu, 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 | Total- 8nos of exploratory boreholes with 280Mtrs of depth were drilled during the year 2023-24. | Nil |

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| 1c | Exploration Agency & Expenditure in lakh Rupees during the year | No proposal | 1.Geotech Exploration & 2. Sri. Balaji Borewells Total Amount (In Rupees)-4,67,775.00 | As reported by Lessee during inspection. |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | G-1- 16.15 ha, Non mineralized area-33.58 ha (As per the last approved document) | G-1-16.15 ha. Non mineralized area-33.58 ha | Nil |
| 1e | Balance reserves as on 01.04.2024 | 4,551,944 tons of iron ore reserves as on 01/04/2023 (Avg grade-HIO-52 %, HSIO-38.74 %) | 4,071,944 tons of iron ore as on 1.04.2024. | As reported by Lessee in AR 2023-24. |
| 1f | General remarks of inspecting officer on geology, exploration etc. | i)No Exploratory proposals for the year 2023-24. Lateral extent completed under G-1 level. For checking the vertical continuity of the ore body 7 nos. of exploratory boreholes proposed in the modified mining plan during year 2024-25. ii)Reserve/Resource reported correctly in AR 2023-24 by the Lessee. | | |

Development

| S.N. | Item | Proposals | Actual work | Remarks |
|------|---|--|--|---|
| 2a | Location of development w.r.t. lease area | Development/ working proposed for the year 2023-24 from Section C-C' to L-1-L-1' & R-R' from 990-982 mRL | Development/ working carried out within the proposed extent as per the proposal. | As per proposal. |
| 2b | Separate benches in topsoil, overburden and mineral (Rule 15) | Separate benches for OB and mineral proposed | Separate benches for OB and mineral maintained | Nil |
| 2c | Stripping ratio or ore to OB ratio | 1:0.13 (In tons) proposed | 1:0.13 (In tons) achieved | ROM-4,80,000 tons Waste-63,532 tons. As reported by Lessee in AR 2023-24. |
| 2d | Quantity of topsoil generation in m3 | No Proposal | Nil | Nil |
| 2e | Quantity of | 31,836 m ³ proposed | 31,766 m ³ achieved | As reported |

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| | overburden generation in m3 | | | by Lessee in AR 2023-24. |
| 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 | Pit-1 proposed for production | Actual work carried out in Pit-1 within the proposed extent | Nil |
| 3b | Quantity of ROM mineral production proposed | 4,80,000 tons proposed | 4,80,000 tons achieved | Nil |
| 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 | No proposal | Nil | Nil |

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| | generation | | | |
| 3h | Manual / Mechanized method adopted for segregating from ROM | Only dry crushing & screening proposed | Crusher 100 TPH-2Nos. | Feed size- 150 mm, Product size- -40 mm |
| 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 & blasting proposed. | Drilling & blasting carried out for hard strata using Slurry explosives in conjunction with detonators | Nil |
| 3k | Provision of mining machineries in mineral benches | Mining Machineries proposed. | 1.Excavator- 2.20 cum – 1 no. & 1.60 cum – 1 no. 2.Wheel Loader 3 cum – 2 nos. 3. Tipper 16 cum – 8 nos. 4. Water Tanker 10KL-4 nos. 5.Drill Machine 115mm dia-1 no. 6. Crusher-100 TPH-2 nos. | As reported by Lessee in AR 2023-24. |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Proposed bench For G-M Sections Height – 8.0 m Width - 3.0 m & | Bench height & width maintained as per proposal. | Nil |

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| 3m | Total area covered under excavation/pits | 16.71 Ha. at the end of plan period 2023-24 | 16.71 Ha at the end of plan period 2023-24 | Nil |
| 3n | Ore to OB ratio for the pit/mine during the year | 1:0.13 (In tons) proposed | 1:0.13 (In tons) achieved | ROM-4,80,000 tons Waste-63,532 tons. As reported by Lessee in AR 2023-24. |
| 3o | Total area put in use under different heads at the end of year | Area under Mining – 16.71 Ha, Waste dump- 8.80 Ha Mineral Storage – 6.65 Ha Infrastructure & Roads – 3.71 Ha | Covered under current (O/C) workings – 16.71 Ha, Used for waste Disposal – 8.80 Ha. Mineral Storage – 6.65 Ha Occupied by plant, buildings, residential, welfare buildings & Roads – 3.71 Ha, | As reported by Lessee in AR 2023-24. |
| 3p | Production of ROM mineral during last five-year period, as applicable | 2019-20: 4,80,000.00 2020-21: 4,80,000.00 2021-22: 4,80,000.00 2022-23: 4,80,000.00 2023-24: 4,80,000.00 (in tonnes) | 2019-20: 4,80,000.00 2020-21: 4,80,000.00 2021-22: 4,69,700.00 2022-23: 4,80,000.00 2023-24: 4,80,000.00 (in tonnes) | Nil |
| 3q | General remarks of inspecting officer on method of mining etc. | The development & production and method of mining carried out by the Lessee as per the proposal. | | |

Solid Waste Management-Dumping

| S.N. | Item | Proposals | Actual work | Remarks |
|------|--|---|--|---------|
| 4a | Separate dumping of topsoil, OB & mineral reject (Rule 32, 33) | Separate waste dumping proposed at OB dump-AD | Separate waste dump carried out at OB dump-AD. | Nil. |

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| 4b | Location of topsoil, OB & mineral reject dumps | AD dump proposed for OB/Waste dumping. | The 10 m systematic stages/lifts have not been maintained at active waste dump (AD) between section N-N' to O-O' (N-1667569 E-661153 to N-1667504 E-661207) from 960 to 980 mRL as per 2023-24 waste dumping proposal. | Violation issued under Rule 11(1) of MCDR 2017. |
| 4c | Number of dumps within lease area and outside lease area | 3 Waste dumps within Lease (ID-1, ID-2 & AD) | 3 Waste dumps within Lease (ID-1, ID-2 & AD) | Two inactive dumps (ID-1 & 2) and one Active dump (AD). |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Active dump (AD) outside UPL. | Active dump (AD) outside UPL. | Nil. |
| 4e | Number of active & alive dumps | One active dump (AD) proposed | One Active dump (AD) | The 10 m systematic stages/lifts have not been maintained at active waste dump (AD) between section N-N' to O-O' (N-1667569 E-661153 to N-1667504 E-661207) from 960 to 980 mRL as per 2023-24 waste dumping proposal. Violation issued under Rule 11(1) of MCDR 2017. |
| 4f | Number of dead dumps | Two dead | Two dead | Nil |

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| | | dumps (ID-1 & 2) | dumps (ID-1 & 2) | |
| 4g | Number of dumps stabilized | No proposal | Nil | Nil |
| 4h | Whether Retaining wall or garland drain all along dumps are there | No proposal for year 2023-24 | Nil | Nil |
| 4i | Length of Retaining wall or garland drain all along dump | No proposal for year 2023-24 | Nil | Nil |
| 4j | Number of settling ponds | No proposal for year 2023-24 | Nil | Nil |
| 4k | Specific comments of inspecting officer on waste dump management. | The 10 m systematic stages/lifts have not been maintained at active waste dump (AD) between section N-N' to O-O' (N-1667569 E-661153 to N-1667504 E-661207) from 960 to 980 mRL as per 2023-24 waste dumping proposal. Violation issued under Rule 11(1) of MCDR 2017. | | |

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 |
| 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 for the mine. | | |

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. | Annual report on PMCP to be submitted before 1 st of July every year. | Annual PMCP Report Submitted along with Annual Return on 28.06.2024. | Nil |
| 6b | Area available for rehabilitation (ha) | 4.58 ha proposed gap plantation at Green belt location & 0.25 ha plantation at active dump (AD) | Gap plantation carried out at 4.58 ha and also 0.38 ha plantation carried out at active dump AD. | Nil |
| 6c | Afforestation done (ha) | 4.58 ha proposed gap plantation at Green belt location & 0.25 ha plantation at active dump (AD) | Gap plantation carried out at 4.58 ha and also 0.38 ha plantation carried out at active dump AD. | Nil |
| 6d | No. of saplings planted during the year | 500 nos. of saplings plantation proposed. | 1531 nos. of saplings plantation carried out both at green belt safety zone and Active dump (AD) | As reported by Lessee during inspection and in AR 2023-24. |
| 6e | Cumulative no. of plants | 72,300 nos. of plants as on 01.04.2023. | 73,831 nos. of plants as on 01.04.2024 | As reported by Lessee in AR 2023-24. |
| 6f | Any other specific method of rehabilitation | No proposal | Nil | Nil |
| 6g | Cost incurred on watch & care during the year | Rs. 75,000 proposed for afforestation | As per proposal | As reported by Lessee during inspection. |
| 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 | No proposal | Nil | Nil |

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| | backfilling (iii) Afforestation on the backfilled area | | | |
| 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 rehabilitated (ha) | No proposal | Nil | Nil |
| 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) | Environmental monitoring proposed in core & buffer zone | The Environment Monitoring in Core and Buffer zone for air, water, noise & soil carried out as per the proposal. Monitoring report of Jan-Mar-24 checked during inspection. Parameters within limit. | Nil |
| 6q | General remarks of inspecting officer on PMCP compliance & progressive closure operations | i) Annual PMCP report for the year 2023-24 submitted within timeline. ii) PMCP proposals carried out inside the mine as per the proposal. | | |

Mineral Conservation

| S.N. | Item | Proposals | Actual work | Remarks |
|------|-------------|-----------|--------------|-------------|
| 7a | ROM Mineral | Only dry | Dry crushing | Crusher 100 |

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| | dispatch or grade-wise sorting within lease area | crushing & screening proposed | & screening carried out. ROM production-480,000 tons. Graded ore production-480,000 tons. Graded ore Despatch-958,995 tons. | TPH-2Nos. Feed size- 150 mm, Product size- -40 mm. |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical | Only Dry crushing and screening proposed. Overall grade 52.67-57.68 % Fe proposed for year 2023-24. | Fines Fe 51-55% Fe 55-58% Fe 58-60% Lumps Fe 51-55% Fe 55-58% Fe-58-60% Fe-60-62% (Production grade range for the year 2023-24) | As reported by Lessee in AR 2023-24. |
| 7c | Different grade of mineral sorted out at mines | Overall grade 52.67-57.68 % Fe proposed for year 2023-24. | Fines Fe 51-55% Fe 55-58% Fe 58-60% Lumps Fe 51-55% Fe 55-58% Fe-58-60% Fe-60-62% (Production grade range for the year 2023-24) | As reported by Lessee in AR 2023-24. |
| 7d | Any beneficiation process at mines | No proposal | Nil | Nil |
| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | Mineral conservation activities carried out inside the mine as per the proposal. | | |

Environment

| S. N. | Item | Proposals | Actual work | Remarks |
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| 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) | Proposed separate dump for waste /OB at active dump (AD) | Separate dump for waste /OB carried out at active dump (AD) | The 10 m systematic stages/lifts have not been maintained at active waste dump (AD) between section N-N' to O-O' (N-1667569 E-661153 to N-1667504 E-661207) from 960 to 980 mRL as per 2023-24 waste dumping proposal. Violation issued under Rule 11(1) of MCDR 2017. |
| 8d | Use of overburden, waste rock, rejects and fines dumps 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) | 72,300 nos. of plants as on 01.04.2023. | 73,831 nos. of plants as on 01.04.2024 | As reported by Lessee in AR 2023-24. |
| 8g | Survival rate | 70% proposed | 80% achieved within ML area. | As reported by Lessee in AR |

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| | | | | 2023-24. |
| 8h | Water sprinkling on roads to control airborne dust | Water sprinkling proposed on roads to control airborne dust | Water sprinkling done regularly on roads to control airborne dust | 4 Water tankers each of 10 KL deployed. for dust suppression. |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | i)The aesthetic beauty in an around mine looks good. ii) The 10 m systematic stages/lifts have not been maintained at active waste dump (AD) between section N-N' to O-O'(N-1667569 E-661153 to N-1667504 E-661207) from 960 to 980 mRL as per 2023-24 waste dumping proposal. Violation issued under Rule 11(1) of MCDR 2017 | | |
| Compliance of Rule 45 | | | | |
| S. N. | Item | COMMENTS | | Remarks |
| 9a | Status of submission of Monthly and Annual returns | Monthly Returns submitted up to July 2024, On 07/08/2024. Annual Return submitted up to 2023-24, On 28/06/2024. | | Annual Return submitted on 28.6.2024 |
| 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 | Sri. J Srikanth - Mining Engineer cum Manager Sri. Rashmi Ranjan Sahu – Geologist. | Appears to be correct | Nil |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Covered under current (O/C) workings – 16.71 Ha, Used for waste Disposal – 8.80 Ha. Occupied by plant, buildings, residential, welfare buildings & Roads – 3.71 Ha, | Appears to be correct | Nil |
| 9d | Scrutiny of Annual return on afforestation | Within ML area- 1531 saplings @ 80% survival rate Outside lease. | Appears to be correct | Nil |
| 9e | Scrutiny of Annual return on mineral reject | Nil | Appears to be correct | Nil |

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| | generation (Grade & quantity) | | | |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | <p>ROM: O/s -300 tons, Production - 4,80,000 tons, C/s – 300 tons</p> <p>Graded Ore O/s- 5,60,792 tons Production- 4,80,000 tons Despatch-9,58,995 tons C/s- 81,796 tons.</p> | The production proposal quantity for the year 2023-24 as per the approved mine plan document dated 18/09/2023 is not updated and is mentioned as ‘0’ in Part-VII. | Violation issued under Rule 45(7) of MCDR 2017. |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price & production cost | <p>Cost of Production =Rs.1964.63 /ton, Ex- mine price: Lumps: 51 to 55% Fe- 3060 Rs/ton. 55 to 58% Fe- 3933 Rs/ton. 58 to 60% Fe- 4302 Rs/ton. 60 to 62% Fe: 4992 Rs/ton, Fines: 51 to 55% Fe – 1774 Rs/ton. 55 to 58% Fe – 2842 Rs/ton., 58 to 60% Fe – 3283 Rs/ton.,</p> | Part-VII (Cost of Production): a) The Royalty, DMF & NMET cost is reported as Rs. 1034 per ton, Rs. 275 per ton and Rs 20.66 per ton respectively, in the cost of production which is not correct, considering the Royalty, DMF and NMET figures as reported in previous para Part-III (2.) & despatch quantity as reported in previous para Part-VI 3(ii). Accordingly, there is error in reported total cost of production. | Violation issued under Rule 45(7) of MCDR 2017. |
| 9i | Scrutiny of Annual return on fixed assets | Rs.1,42,65,421/- including plant and machinery and | Appears to be correct. | Nil. |

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| | | Capitalized expenditure | | |
| 9k | Scrutiny of Annual return on mining machineries | Excavator- 2.20 cum – 1 no. & 1.60 cum – 1 no. 2.Wheel Loader 3 cum – 2 nos. 3. Tipper 16 cum – 8 nos. 4. Water Tanker 10KL-4 nos. 5.Drill Machine 115mm dia-1 no. 6. Crusher-100 TPH-2 nos. | Appears to be correct. | Nil. |

| Details of violations observed during current inspection and compliance position of violation pointed out | | | | | |
|---|------------|---------------|---------------------|------------|---------------|
| Violation observed | | | Show cause position | | |
| Rule No. | Issued on | Compliance on | Rule No. | Issued on | Compliance on |
| 11(1) | 06/09/2024 | 14/10/2024 | 45(7) | 06/09/2024 | 14/10/2024 |

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