

MCDR INSPECTION FORMAT

## General

| SL. No. | Particulars                                                                                | Details                                                                                                                                                                                                                                            |
|---------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | Name of the Mine                                                                           | NADIDIHI IRON ORE MINE                                                                                                                                                                                                                             |
| 1.1     | Name of Inspecting Officer with Designation                                                | Rajesh Kumar Das, DCOM                                                                                                                                                                                                                             |
| 1.2     | Date of Inspection & accompany officer                                                     | 11.12.2024 & by Shri Ulhas Betkecar (Mine Manager) & Shri Abani Kumar Dash, Geologist.                                                                                                                                                             |
| 2       | Total Lease Area (Ha) with breakup of Non-forest and forest land                           | Total Lease Area- 74.50 Ha<br>Total Forest Land- 63.021 Ha<br>Non- Forest Land- 11.479 Ha                                                                                                                                                          |
| 3       | Mine code                                                                                  | 30ORI13072                                                                                                                                                                                                                                         |
| 4       | IBM Registration Number under rule 45 of MCDR, 2017                                        | IBM/329/2011                                                                                                                                                                                                                                       |
| 5       | Name of the lessee, Address, phone, email, and fax number                                  | M/S ESL STEEL LIMITED<br>At- Siyaljori, PO- Jogidih OP- Bangaria<br>Bokaro Steel City, Jharkhand- 828303<br>Email Id- <a href="mailto:Ashish.Gupta3@vedanta.co.in">Ashish.Gupta3@vedanta.co.in</a><br>Fax No.- 8651102477<br>Phone No.- 7763807222 |
| 6       | Village                                                                                    | Nadikasira & Rengalbeda                                                                                                                                                                                                                            |
| 7       | Taluka/Mandal                                                                              | Bonai                                                                                                                                                                                                                                              |
| 8       | District                                                                                   | Sundargarh                                                                                                                                                                                                                                         |
| 9       | Pincode                                                                                    | 770048                                                                                                                                                                                                                                             |
| 10      | State                                                                                      | Odisha                                                                                                                                                                                                                                             |
| 11      | Post office                                                                                | Koira                                                                                                                                                                                                                                              |
| 12      | Nearest police station                                                                     | Koira                                                                                                                                                                                                                                              |
| 13      | Nearest Railway station                                                                    | Barbil                                                                                                                                                                                                                                             |
| 14      | Date of Grant of Mining Lease                                                              | 17.11.2021                                                                                                                                                                                                                                         |
| 15      | Date of Execution                                                                          | 20.11.2021                                                                                                                                                                                                                                         |
| 16      | Date of opening of Mine                                                                    | 26.11.2021                                                                                                                                                                                                                                         |
| 17      | Date of expiry                                                                             | 19.11.2071                                                                                                                                                                                                                                         |
| 18      | Name of the Nominated Owner with Address, phone, email, fax number and date of appointment | Mr. Ashish Gupta<br>ESL Steel Limited<br>Siyaljori, PO-Jogidih, OP-Bangaria<br>Bokaro Steel City                                                                                                                                                   |

|    |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                  |
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|    |                                                                                                                                                  | Jharkhand-828303<br>Email-id: <a href="mailto:Ashish.Gupta3@vedanta.co.in">Ashish.Gupta3@vedanta.co.in</a><br>Phone No. 7763807222<br>Date of Appointment: 26.10.2023                                                                                                                                                            |
| 19 | Name of the Mine Agent with Address, phone, email, fax number and date of appointment                                                            | <b>Mr. Biswanath Sahoo</b><br>Nadidihi Iron Ore Mine<br>ESL Steel Limited<br>Village- Nadidihi<br>Taluka-Bonai<br>P.O.-Koirā<br>District-Sundargarh<br>Odisha-770048<br>Email: <a href="mailto:Biswanath.Sahoo@vedanta.co.in">Biswanath.Sahoo@vedanta.co.in</a><br>Phone: 9049930239<br>Date of Appointment- 02.11.2023          |
| 20 | Name of the Mines Manager with Address, mobile no, email, fax number and date of appointment in mine                                             | <b>Mr. Ulhas Betkecar</b><br>Nadidihi Iron Ore Mine<br>ESL Steel Limited<br>Village- Nadidihi<br>Taluka-Bonai<br>P.O.-Koirā<br>District-Sundargarh<br>Odisha-770048<br>Email: <a href="mailto:ulhas.betkikar@vedanta.co.in">ulhas.betkikar@vedanta.co.in</a><br>Phone: 9545458418<br>Date of Appointment- 03.12.2024             |
| 21 | Name of the Mining Engineer, Qualification and total experience with Address, mobile no, email, fax/phone number and date of appointment in mine | <b>Mr. Ulhas Betkecar</b><br>Nadidihi Iron Ore Mine<br>ESL Steel Limited<br>Village- Nadidihi<br>Taluka-Bonai<br>P.O.-Koirā<br>District-Sundargarh<br>Odisha-770048<br>Email: <a href="mailto:ulhas.betkikar@vedanta.co.in">ulhas.betkikar@vedanta.co.in</a><br>Phone: 9545458418<br>Date of Appointment- 03.12.2024             |
| 22 | Name of the Geologist, Qualification and total experience with Address, mobile no, email, fax number and date of appointment in mine             | <b>Mr. Biswanath Sahoo</b><br>M.Sc. (Geology)<br>Experience- 17 years<br>ESL Steel Limited,<br>Siyaljori, PO-Jogidih, OP-Bangaria<br>Bokaro steel city<br>JHARKHAND-828303<br>Email Id: <a href="mailto:Biswanath.Sahoo@vedanta.co.in">Biswanath.Sahoo@vedanta.co.in</a><br>Phone: 9049930239<br>Date of Appointment- 20.01.2022 |
| 23 | Date of Approval of Mining Plan/Review of Mining Plan/ their modifications with five-                                                            | Letter No. - BBS/SNG/IRON-MN/2167/MP/2022-23<br><br>Date of Approval: 12/05/2022                                                                                                                                                                                                                                                 |

|    |                                                                |                                                                                                                 |
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|    | year period and specific condition in approval letter, if any. |                                                                                                                 |
| 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 | Present EC Capacity                                            | 9.0 MTPA (8.0 MTPA of ROM Iron Ore and 1.0 MTPA of low-grade ore from old dump located within mine lease area.) |

**Exploration:**

| Sl.No | Item                                                            | Proposals (FY 2023-24) | Actual work                                                                                                                                                                      | Remarks                                                                                                |
|-------|-----------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 1a    | Backlog of previous year                                        | Not Applicable         | Not Applicable                                                                                                                                                                   | Ex-Lesse: 244 Nos,<br>FY-23: 45 Nos<br>Total: 289 Nos                                                  |
| 1b    | Exploration over lease area for Geological axis 1 or 2.         | No Proposal            | Entire lease Area (74.50 Ha.) is under G1 Level of Exploration.<br><br>45 Nos. of Borehole done in FY-2023 to increase the confidence level and Ore Body Interpretation.         | G1: 74.50 Ha.<br>G2: 0 Ha.<br>Area proved as non-mineralized: 27.271 Ha.<br>Area to be explored: 0 Ha. |
| 1c    | Exploration Agency & Expenditure in lakh Rupees during the year | No Proposal            | Drilling Partner: M/s Maheshwari Mining Pvt. Ltd.<br>Technical Partner: SRK Mining Services (India) Private Ltd.<br>Expenditure:<br>FY: 23 - 207.43Lakhs.<br>FY: 24 – 23.41Lakhs |                                                                                                        |
| 1d    | Balance area to be explored to bring Geological axis in 1 or 2  | <u>Nil</u>             | <u>Nil</u>                                                                                                                                                                       | Entire lease Area (74.50 Ha.) is under G1 Level of Exploration.                                        |

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|----|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--|
| 1e | Balance reserves as on 01.04.2024                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 14383177.43 Tonnes |  |
| 1f | General remarks of inspecting officer on geology, exploration etc. | The area of the Nadidihi block falls in the Upper shale formation of the Koira group. It can be divided into the top Ferruginous Shale unit and its underlying Manganiferous Shale unit. The Manganiferous Shale of the Upper Shale formation has a gradational contact with its underlying litho-units of Banded Iron Formation represented by BHJ, BHQ and BHC. The sequence of lithounits as observed in the boreholes drilled in the area in general is as follows: Ferruginous Shale, Lat/Iron Ore (+55% Fe) shaly Iron ore (45% to 54.9% Fe), Manganiferous shale and/or Mn ore, BHJ/BHQ/BHC. The lease area broadly explored in G1. |                    |  |

**Development: -**

| Sl.No. | Item                                                                                    | Proposals (FY 2023-24)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Actual work                                                                                                                           | Remarks |
|--------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------|
| 2a     | Location of development w.r.t. lease area                                               | 320525 E to 321038.843 E<br>2430063 N to 2430284 N                                                                                                                                                                                                                                                                                                                                                                                                                                              | 320643 E to 321036 E<br>2430065 N to 2430282 N                                                                                        |         |
| 2b     | Separate benches in topsoil, overburden, and mineral                                    | Type No. of Benches<br>West pit & East Pit:<br>Topsoil 0<br>Overburden 1<br>Mineral 5                                                                                                                                                                                                                                                                                                                                                                                                           | Type No. of Benches<br>East Pit:<br>Topsoil 0<br>Overburden 1<br>Mineral 4<br><br>West Pit:<br>Topsoil 0<br>Overburden 0<br>Mineral 4 |         |
| 2c     | Stripping ratio or ore to OB ratio                                                      | FY 24 - 1:0.19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | FY 24 - 1:0.113                                                                                                                       |         |
| 2d     | Quantity of topsoil generation in m3                                                    | NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NA                                                                                                                                    |         |
| 2e     | Quantity of overburden generation in m3                                                 | 682950                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 285128                                                                                                                                |         |
| 2f     | General remarks of inspecting officer on development of pit w.r.t. type of deposit etc. | During mine visit it was observed that that bench parameters are not as per proposal. The benches not developed as per proposal. The maximum height of bench was proposed 9.0 meter and minimum width 10 meter but bench height in many places in both the pits (East Pit between BP-L to BP-I, & West pit northern direction) 12-15 meter (benches collapsed) and width also less than proposal. The OB/waste generation is proposed 682950 m3 in 2023-24 but actual generation was 285128 m3. |                                                                                                                                       |         |

**Exploitation: -**

| Sl.No. | Item | Proposals (FY 2023-24) | Actual work | Remarks |
|--------|------|------------------------|-------------|---------|
|--------|------|------------------------|-------------|---------|

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|    |                                                                                             | )                                                                         |                                                                                                                   |                                                                                                                                                                 |
| 3a | Number of pits proposed for production                                                      | Two Pits (East Pit & West Pit)                                            | Two Pits (East Pit & West Pit)                                                                                    | West Pit: 550 * 240 * 84<br>East Pit: 495 * 370 * 83.3                                                                                                          |
| 3b | Quantity of ROM mineral production proposed                                                 | 3478950.00 MT                                                             | 2527044.569 MT                                                                                                    |                                                                                                                                                                 |
| 3c | Recovery of salable/usable mineral from ROM production                                      | 98.99%                                                                    | 62.12%                                                                                                            |                                                                                                                                                                 |
| 3d | Quantity of mineral reject generation                                                       | 34790.00                                                                  | 957102.7800                                                                                                       |                                                                                                                                                                 |
| 3e | Grade of mineral reject generation and threshold value declared                             | 45 Fe % to 55 Fe %<br>Threshold value 45 % Fe content                     | 45 Fe % to 55 Fe %<br>Threshold value 45 % Fe content                                                             |                                                                                                                                                                 |
| 3f | Quantity of sub-grade mineral generation                                                    | Not applicable                                                            | Not applicable                                                                                                    |                                                                                                                                                                 |
| 3g | Grade of sub-grade mineral generation                                                       | Not applicable                                                            | Not applicable                                                                                                    |                                                                                                                                                                 |
| 3h | Manual / Mechanised method adopted for segregating from ROM                                 | Mechanized                                                                | Mechanized                                                                                                        | Mechanized method by using the Excavator, Dumper, Tipper, Rock-breaker, Drilling & Blasting & Mobile Screening plant for segregating from ROM.                  |
| 3i | Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject | Not applicable                                                            | Not applicable                                                                                                    |                                                                                                                                                                 |
| 3j | Provision of drilling & blasting in mineral benches                                         | Yes                                                                       | Yes, Drilling and blasting are conducted in Hard rocks only which comprises only about 5 - 10% of total handling. | Drilling done by using the wagon drill machine of Hyundai 230 LM with 148 HP of 110 mm diameter & Blasting done by using the Class-II type Powergel explosives. |
| 3k | Provision of mining machinery in mineral benches                                            | 11 No. excavators<br>2 No. Dozer<br>1 No. Drill Machine.<br>20 No. Tipper | 10 No. excavators<br>2 No. Dozer<br>1 No. Drill Machine<br>1 Dumper &                                             | Excavator: (6.5 to 0.25 m3).<br>Dozer: 354 HP, 215 HP<br>Wagon drill                                                                                            |

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|----|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|    |                                                                                                      |                                                                                                                                                                                  | 16 No. Tipper.                                                                                                                       | machine 115 diameter with 148 HP.<br>100 tonnes<br>Komatsu Dumper<br>& 30 Tonnes<br>Volvo /Eicher 802 5XM |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Yes                                                                                                                                                                              | Yes                                                                                                                                  |                                                                                                           |
| 3m | Total area covered. under excavation/pits                                                            | 34.79                                                                                                                                                                            | 34.78                                                                                                                                |                                                                                                           |
| 3n | Ore to OB ratio for the pit/mine during the year                                                     | 1:019                                                                                                                                                                            | 1:0.113                                                                                                                              |                                                                                                           |
| 3o | Total area put in use under different heads at the end of year                                       | Area under Mining- 34.79 Ha<br>OB /Waste dumping- 14.30 Ha<br>Infrastructure- 0.10 Ha<br>Mineral Storage: 9.30 Ha<br>Roads- 1.20 Ha                                              | Area under Mining- 34.7800<br>OB /Waste dumping- 14.12 Ha<br>Infrastructure- 0.18 Ha<br>Mineral Storage: 14.39 Ha<br>Roads- 2.97 Ha. |                                                                                                           |
| 3p | Production of ROM mineral during last five-years period, as applicable                               | <b>2021-22:</b> 273206 MT<br><b>2022-23:</b> 3615876 MT<br><b>2023-24:</b> 3478950 MT                                                                                            | <b>2021-22:</b> 273206 MT<br><b>2022-23:</b> 3043480 MT<br><b>2023-24:</b> 2527044.569 MT                                            |                                                                                                           |
| 3q | General remarks of inspecting officer on method of mining etc.                                       | The method of mining is by opencast method by using HEMM and deep hole drilling and blasting. The mining activity by fully mechanized method with shovel and dumper combination. |                                                                                                                                      |                                                                                                           |

**Solid Waste Management-Dumping: -**

| Sl.No | Item | Proposals (FY 2023-24) | Actual work | Remarks |
|-------|------|------------------------|-------------|---------|
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|----|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 4a | Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)    | -No Topsoil<br>-OB is proposed to dump separately.                                                                                                                                           | -No Topsoil<br>-OB is dumped separately.<br>-Mineral Reject is stored separately or blended with Ore (having grade >55 % Fe) as per Market demand. |                                                                       |
| 4b | Location of topsoil, OB & mineral reject dumps                    | <b><u>Location of OB:</u></b><br>320558.083E to 320898.12 E<br><br>2430660 N to 2430861N<br><br><b><u>Mineral reject</u></b><br>320248.245E to 320599.994 E<br><br>2430200N to 2430858.283 N | Broadly within proposed area.                                                                                                                      |                                                                       |
| 4c | Number of dumps within lease area and outside lease area          | 1 no. of dumps is present within the lease area.                                                                                                                                             | 1 no. of dumps is present within the lease area.                                                                                                   |                                                                       |
| 4d | Location of dumps w.r.t. ultimate pit limit                       | <b><u>Location of OB:</u></b><br>320558.083E to 320898.12 E<br><br>2430660 N to 2430861N                                                                                                     | <b><u>Location of OB:</u></b><br>320559 N to 320724 N<br><br>2430746 N to 2430860 N                                                                |                                                                       |
| 4e | Number of active & alive dumps                                    | 1                                                                                                                                                                                            | 1                                                                                                                                                  |                                                                       |
| 4f | Number of dead dumps                                              | 0                                                                                                                                                                                            | 0                                                                                                                                                  |                                                                       |
| 4g | Number of dumps stabilized                                        | 0                                                                                                                                                                                            | 0                                                                                                                                                  |                                                                       |
| 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          | Retaining Wall: <b>188 m</b><br><br>Garland drain: <b>236 m</b>                                                                                                                              | Retaining Wall: <b>188 m</b><br><br>Nil                                                                                                            | Maintenanc<br>e of the<br>existing<br>Retaining<br>& Garland<br>drain |
| 4j | Number of settling ponds                                          | NA                                                                                                                                                                                           | 2                                                                                                                                                  |                                                                       |
| 4k | Specific comments of inspecting officer on waste dump management  | During mine visit it was observed that waste dumping is broadly as per proposal                                                                                                              |                                                                                                                                                    |                                                                       |

**Solid Waste Management-Backfilling: -**

| Sl.No. | Item                                                                                          | Proposals (FY 2023-24)            | Actual work    | Remarks |
|--------|-----------------------------------------------------------------------------------------------|-----------------------------------|----------------|---------|
| 5a     | Status on part or full extraction of mineral from mined out area before starting backfilling. | Not Applicable                    | Not Applicable |         |
| 5b     | Area under backfilling of mined out area                                                      | Not Applicable                    | Not Applicable |         |
| 5c     | Concurrent use of topsoil for restoration or rehabilitation of mined out area                 | Not Applicable                    | Not Applicable |         |
| 5d     | Total area fully reclaimed & rehabilitated                                                    | Not Applicable                    | Not Applicable |         |
| 5e     | General remarks of inspecting officer on backfilling, reclamation etc                         | Area not matured for backfilling. |                |         |

**Progressive Mine Closure Plan: -**

| Sl.No | Item                                                                                                                                                                                                                                                                                                                                    | Proposals (FY 2023-24)                                                               | Actual work                                                                            | Remarks         |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------|
| 6a    | Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). (Hard copy same provided)                                                                                                                                                                                                                                   | Yes                                                                                  | Yes, submitted on 23.06.2024                                                           | Report Attached |
| 6b    | Management of worked/mined out benches.<br>i) Area available for rehabilitation (ha)<br>ii) Afforestation done (ha)<br><br>iii) No. of saplings planted during the year<br><br>iv) Cumulative no. of plants as on 31.03.2024<br><br>v) Any other specific method of rehabilitation<br>vi) Cost incurred on watch & care during the year | Not Applicable<br>0.18 Ha<br><br>288<br><br>2688<br><br>Not Applicable<br>4.55 lakhs | Not Applicable<br>2.763 Ha<br><br>1500<br><br>4900<br><br>Not Applicable<br>5.21 lakhs |                 |
| 6c    | Compliance on reclamation and rehabilitation by backfilling<br>i) Voids available for backfilling (L X B X D)<br>ii) Void filled by waste/tailings<br>iii) Afforestation on the backfilled area<br>iv) Rehabilitation by making water reservoir                                                                                         | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable                 | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable                   |                 |

|    |                                                                                                                                             |                                                                            |                                                               |  |
|----|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------|--|
|    | v) Any other specific means                                                                                                                 | Not Applicable                                                             | Not Applicable                                                |  |
| 6d | Compliance of Rehabilitation of waste land within lease<br>i) Afforestation<br>ii) Area rehabilitated (ha)<br>iii) Method of rehabilitation | Not Applicable<br>Not Applicable<br>Not Applicable                         | Not Applicable<br>Not Applicable<br>Not Applicable            |  |
| 6e | Compliance of Environmental monitoring (core zone & buffer zone)                                                                            | Yes, (Ambient air quality, Water quality & Noise level on Quarterly basis) | Yes, monitored & submitted to SPCB-Rourkela on monthly basis. |  |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.                                           | Broadly as per proposal.                                                   |                                                               |  |

**Mineral Conservation: -**

| Sl.No | Item                                                            | Proposals (FY 2023-24)                             | Actual work                                                                                                            | Remarks                                                                                                                                                                                           |
|-------|-----------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7a    | ROM Mineral dispatch or grade-wise sorting within lease area    | Fines & Lumps dispatch with Grade >55% Fe content. | Fines & Lumps dispatch with Grade >51% Fe content.                                                                     | Dispatch as per market demand.                                                                                                                                                                    |
| 7b    | Method of grade-wise mineral sorting i.e., manual or mechanical | Mechanical                                         | Mechanical                                                                                                             | Mechanical methods used for sorting by using Excavator, Wheel-loader, Rock-breaker and Mobile Screening & Crushing plant. using Excavator, Wheel-loader, Rock-breaker and Mobile Screening plant. |
| 7c    | Different grade of mineral sorted out at mines                  | 45.55% Fe content & >55% Fe content                | 45-51 % Fe content, 51-55 % Fe content, 55-58 % Fe content, 58-60 % Fe content, 60-62 % Fe content, 62-65 % Fe content |                                                                                                                                                                                                   |

|    |                                                                                      |                                                                                                                                                |                                                                                                                                                |  |
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|    |                                                                                      |                                                                                                                                                | >65 % Fe content                                                                                                                               |  |
| 7d | Any beneficiation process at mines                                                   | Mobile Screening Plant.<br>(800TPH*1, 200TPH*2 & 500TPH*2)<br>-Mobile Crushing Plant (Mobile Jaw Crusher 120 Hp & Mobile Cone Crusher 200 TPH) | Mobile Screening Plant.<br>(250TPH*5, 200TPH*2 & 400TPH*1)<br>-Mobile Crushing Plant (Mobile Jaw Crusher 120 Hp & Mobile Cone Crusher 200 TPH) |  |
| 7e | General remarks of inspecting officer on Mineral conservation & beneficiation issues | Blend different grade material to get desired grade.                                                                                           |                                                                                                                                                |  |

**Environment: -**

| Sl.No | Item                                                                                              | Proposals (FY 2023-24)                                                                                                                                                                                  | Actual work                                                                                                                                                                                         | Remarks                                                                                                                                                                                                            |
|-------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8a    | Separate removal and utilization of topsoil                                                       | No Topsoil removal proposed.                                                                                                                                                                            | Not Applicable                                                                                                                                                                                      |                                                                                                                                                                                                                    |
| 8b    | Concurrent use or storage of topsoil                                                              | Not Applicable                                                                                                                                                                                          | Not Applicable                                                                                                                                                                                      |                                                                                                                                                                                                                    |
| 8c    | Separate dumps for overburden, waste rock, rejects and fines                                      | YES<br><br><b><u>Location of OB:</u></b><br>320558.083E to 320898.12 E<br><br>2430660 N to 2430861N<br><br><b><u>Mineral reject</u></b><br>320248.245E to 320599.994 E<br><br>2430200N to 2430858.283 N | YES<br><br><b><u>Location of OB:</u></b><br>320559 N to 320724 N<br><br>2430746 N to 2430860 N<br><br><b><u>Mineral reject</u></b><br>320363.261E to 320469.17E<br><br>2430507.045N to 2430647.546N | Separate dumps for overburden waste rock, rejects and fines done as per proposed plan. (Mineral rejects stored in proposed stack/Stockpile area / blended with Ore (having grade > 55 % Fe) as per Market demand.) |
| 8d    | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | Not Applicable                                                                                                                                                                                          | Not Applicable                                                                                                                                                                                      |                                                                                                                                                                                                                    |
| 8e    | Phased restoration, reclamation and rehabilitation of lands                                       | Not Applicable                                                                                                                                                                                          | Not Applicable                                                                                                                                                                                      |                                                                                                                                                                                                                    |

|    |                                                                                    |                                                                                |                                                         |  |
|----|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------|--|
|    | affected by mining operations (Pits, dumps etc)                                    |                                                                                |                                                         |  |
| 8f | Baseline information on existence of plantation & additional plantation done       | Not Applicable                                                                 | Not Applicable                                          |  |
| 8g | Survival rate                                                                      | 80 %                                                                           | 80 %                                                    |  |
| 8h | Water sprinkling on roads to control airborne dust                                 | Yes, Water sprinkling is carried out using water tanker                        | Yes, Water sprinkling is carried out using water tanker |  |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | During mine visit no adverse impact on aesthetic beauty within lease observed. |                                                         |  |

### Compliance of Rule 45

| Sl.No | Item                                                                                          | COMMENTS                                                                                                                                                                                                                                                   |                                                                                                                              | Remarks |
|-------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------|
| 9a    | Status of submission of Monthly and Annual returns                                            | Monthly return Submitted up to 10 <sup>th</sup> of Every Month<br>Annual return submitted on 23.06.2023.                                                                                                                                                   |                                                                                                                              |         |
| S.N.  | Item                                                                                          | Details GIVEN in A.R.                                                                                                                                                                                                                                      | Actual in field                                                                                                              |         |
| 9b    | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager           | Mining Engineer- Shri. Vikil N Kawale<br><br>Geologist- Shri. Biswanath Sahoo<br><br>-Mines Manager: Shri. Devi Prasad Misra                                                                                                                               | Mining Engineer- Shri. Vikil N Kawale<br><br>Geologist- Shri. Biswanath Sahoo<br><br>-Mines Manager: Shri. Devi Prasad Misra |         |
| 9c    | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | (i) Already exploited and abandoned by opencast (O-C) mining- 0.000 Ha.<br>(ii) Covered under current (O-C) mining- 34.780 Ha.<br>(iii) Reclaimed-rehabilitated- 0.000 Ha.<br>(iv) Used for waste disposal- 14.12 Ha.<br>(v) Occupied by plant, buildings, |                                                                                                                              |         |

|    |                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
|----|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|    |                                                                           | <p>residential, welfare buildings and roads- 4.70 Ha.</p> <p>(vi) Used for any other purpose (specify) Safety Zone, Green belt area, Mineral Storage &amp; Environment measures, etc.- 20.90 Ha.</p> <p>(vii) Work done under progressive mine closure plan during the year- 0.000</p>                                                                                                                                              |  |  |
| 9d | Scrutiny of Annual return on afforestation                                | 1500 plants (75% Survival rate)                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade & quantity) | <p>Quantity: 957102.78 Metric Tonnes</p> <p>Grade: 45 Fe % to 55 Fe %</p>                                                                                                                                                                                                                                                                                                                                                           |  |  |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore                  | <p><b>Opening Stock:</b> 986932 Tonnes</p> <p><b>ROM Production:</b> 2527044.569 Tonnes</p> <p><b>ROM Closing Stock:</b> 1061762.879Tonnes</p>                                                                                                                                                                                                                                                                                      |  |  |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price & production cost | <p>Ex Mine Price-</p> <p>Lumps-</p> <p>51% to below 55% Fe- Rs 1500.00/-</p> <p>Fines-</p> <p>51% to below 55% Fe- Rs 2104.36/-</p> <p>55% to below 58% Fe- Rs 3815.62/-</p> <p>58% to below 60% Fe- Rs 3633.16/-</p> <p>60% to below 62% Fe- Rs 4730.13/-</p> <p>62% to below 65% Fe- Rs 4620.16/-</p> <p>65% and above Fe- Rs 5124.77/-</p> <p>CLO-</p> <p>Below 62% Fe (CLO any size)- 4932.47</p> <p>Cost of production-Rs:</p> |  |  |

|    |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |
|----|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|    |                                                 | 4610.88/-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| 9i | Scrutiny of Annual return on fixed assets       | Rs. 2286662631/-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| 9k | Scrutiny of Annual return on mining machineries | <p>Excavator (Backhoe):<br/> 1 No. (3.1 cum)<br/> 3 No. (0.25 cum)<br/> 1 No. (6.5cum)<br/> 5 No. (1.2 cum)</p> <p>Wheel loader:<br/> 3 No. (3.0 cum)</p> <p>Tipper: 16 Nos.<br/> 8 No. (19.5 cum)<br/> 8 No. (18.5 cum)</p> <p>Drilling Machine: 01 Nos.<br/> (115 mm diameter)</p> <p>Dozer: Nos.<br/> 1 no. -354 HP<br/> 1 no. – 215 HP</p> <p>100 Ton Dumper: 2 Nos.</p> <p>Water Sprinkler: 2 Nos.<br/> 1 no. – 28 KL<br/> 1 no.-18 KL</p> <p>Diesel Generator: 7 Nos.<br/> 6 nos. – 8 KWH<br/> 1 no.- 500 KWH</p> <p>Motor Grader: 1 Nos.<br/> 1 no. – 160 HP</p> |  |  |

The inspection carried out for processing of Modified Mining Plan. During present inspection violations under Rule 11(1) & 45(5) © found violated.

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Signed by Rajesh Kumar  
Das  
Date: 02-04-2025 15:29:36