

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/MN/KJR/MCDR-5/BBS

Mine code : 40ORI08010

- (i) Name of the Inspecting : **SRM**) SHRI SUDIP RANJAN MAZUMDAR
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Shyama Sundar Barik, Mine Agent
Official with
Designation
- (iv) Date of Inspection : 10/01/2020
- (v) Prev.inspection date : 08/10/2017

PART-I : GENERAL INFORMATION

1. (a) Mine Name : DUBNA
- (b) Registration NO. : IBM/4269/2011
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : ORISSA
District : KEONJHAR
Village : DUBNA
Taluka : BARBIL
Post office : DUBNA
Pin Code : **758086**
FAX No. : 0674-2391629
E-mail : planningcellomc@gmail.com
Phone : 0674-2393431
- (f) Police Station : Bamebari
- (g) First opening date : 01/01/1972
- (h) Weekly day of rest : MON
2. Address for : DUBNA MN MINES
correspondance VILL/PO-DUBNA
DIST-KEONJHAR
3. (a) Lease Number : ORI0181
- (b) Lease area : ~~1135.42~~ **1332.019Ha**
- (c) Period of lease : 20
- (d) Date of Expiry : ~~07/09/1991~~ **29.12.2029**
4. Mineral worked : IRON ORE Associated
MANGANESE ORE Main

5. Name and Address of the

Lessee : M/S Orissa Mining Corporation Ltd
P.O.NO.34 OMC House
Bhubaneswar KHURDA ORISSA
Phone:
FAX :

Owner : m/s ORISSA MINING CORPORATION LTD
OMC HOUSE P.B.No.34
BHUBNESHWAR ORISSA
Phone: 2393431
FAX : 2391629

Agent : SHRI S S BARIK
AT/PO- BARBIL DIST-
KEONJHAR ODISHA KEONJHAR
ORISSA
Phone: 06767-275253
FAX : 06767-275275

Mining Engineer

Name : SHRI ARUN BALABANT ROY, Full Time
Qualification :
Appointment/ : 14/06/2019
Termination date

Manager

Name : SHI ARUN BALABANT ROY
Qualification : B E MINING
Appointment/ : 14/06/2019
Termination date

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| 6. Date of approval of Mining | : | Mining Scheme rule 12 MCDR1988 | 15/04/2004 |
| Plan/Scheme of Mining | | FMCP under 23C(1) | 22/05/2007 |
| | | Renewal under rule 24 MCR1960 | 01/03/2011 |
| | | MP modif under 17(3) MCR 2016 | 15/11/2017 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|--|---|--|
| 1a | Backlog of previous year | In 2018-19, 61 numbers of boreholes have been proposed to be drilled | In 2018-19, the proposed exploration have not been carried out due to want of forest clearance | The mine was non-operational due to want of EC and FC |
| 1b | Exploration over lease area for geological axis 1 or 2 | To prove the existence of ore in unexplored area of 924.939 Ha | As on 01.04.2019, the lease area explored under G1: 401.685Ha and G2 is G2: 4.925Ha. In 2018-19, the proposed exploration have not been carried out due to want of forest clearance | The mine was non-operational due to want of EC and FC |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | Not Specified | Nil | In 2018-19, the proposed exploration have not been carried out due to want of forest clearance |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | To prove the existence of ore in unexplored area of 924.939 Ha | In 2018-19, the proposed exploration have not been carried out due to want of forest clearance | The mine was non-operational due to want of EC and FC |

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| 1e | Balance reserve as on 01/04/20 | As per the modified mining plan approved dated 15.11.2017, the iron ore reserve is 20.022 million tones and remaining resources is 7.107 million tones. Total Reserve and Resource is 27.129 million tones. Manganese ore reserve is 0.837 million tones and resources at 0.309 million tones. Total reserve and resource of Mn is 1.146 million tones | The mine was non-operational and therefore there is no depletion in reserves. Thus, as on 01.04.2019, the iron ore reserve is 20.022 million tones and remaining resources is 7.107 million tones. Total Reserve and Resource of iron ore is 27.129 million tones. Manganese ore reserve is 0.837 million tones and resources at 0.309 million tones. Total reserve and resource of Mn is 1.146 million tones | The mine was non-operational due to want of EC and FC |
| 1f | General remarks of inspecting officers on geology, exploration etc | In 2018-19, 61 numbers of boreholes have been proposed to be drilled to prove the existence of ore in unexplored area | In 2018-19, the proposed exploration have not been carried out due to want of forest clearance | The mine was non-operational due to want of EC and FC |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
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| 2a | Location of development w.r.t.lease area | <p>IRON Deposit 2 Qry3:- 332413 E to 332757 E & 2415311 N to 2415731 N. Deposit 3:- 332504 E to 332738 E & 2414276 N to 2415002 N MANGANESE Deposit 5 Top:- 332855 E to 333149 E & 2417637 N to 2417842N Deposit 6B:- 332723E to 332862E & 2417452N to 2417700N</p> | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | <p>IRON Deposit 2 Qry3:- Ore bench - 03 nos. Topsoil - Nil, OB - Nil Deposit 3:- Ore bench - 05 nos, Topsoil - Nil, OB - Nil MANGANESE Deposit 5 Top:- Ore bench - 02 nos, Topsoil - Nil, OB - 01 no. Deposit 6B:- Ore bench - 01 no, Topsoil - Nil, OB - 01 no.</p> | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 2c | Stripping ratio or ore to OB ratio | <p>Stripping ratio for iron ore 0.2 t/cum cum/cum and for manganese ore 2.93 t/cum</p> | Not applicable as mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC. |

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| 2d | Quantity of topsoil generation in m3 | Not Proposed | Nil | The mine was non-operational due to want of EC and FC |
| 2e | Quantity of overburden generation in m3 | IRON Deposit 2 Qry3:- 0.18 M.cum Deposit 3:- 0.22 M.cum Total:- 0.40 M.cum MANGANESE Deposit 5 Top:- 0.181 M.cum Deposit 6B:- 0.086 M.cum Total:- 0.267 M.cum | Nil | The mine was non-operational due to want of EC and FC |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | In 2018-18, development for iron ore proposed in Deposit 2 (Quarry 3) & Deposit 3 and for Manganese ore in Deposit 5 Top and Deposit 6B | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|---|---|
| 3a | Number of pit proposed for production | Iron ore - 02 Pits; Mn Ore - 02 Pits | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 3b | Quantity of ROM mineral production proposed | Iron ore: 1.65 million tones and Mn ore: 0.10 million tones | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 3c | Recovery of sailable/usable mineral from ROM production | Iron Ore: 1.59 million tones and Mn Ore: 0.05 million tones | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |

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| 3d | Quantity of mineral reject generation | Iron Ore: 0.06 million tones and Mn Ore: 0.05 million tones | Nil. The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 3e | Grade of mineral rejects generation and threshold value declared. | Iron Ore:- 45% Fe to 55% Fe; Threshold: 45% Fe; Manganese Ore:- 10% Mn to 25% Mn, Threshold value +10% Mn. | Nil. The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 3f | Quantity of sub grade mineral generation. | Iron Ore: 1.59 million tones and Mn Ore: 0.05 million tones | Nil. The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 3g | Grade of sub grade mineral generation | Iron Ore:- 45% Fe to 55% Fe; Manganese Ore:- 10% Mn to 25% Mn | Nil. The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Mechanized method for Iron ore excavation & processing and Manganese OB excavation. Manual Sorting for Manganese Ore | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | Nil | Nil | Nil |

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| 3j | Provision of drilling and blasting in mineral benches | Drilling will be carried out using 150 mm dia. Drills with 3 - 3.5 m burden and 3.5 - 4 m spacing in iron ore whereas, 115 mm dia. drill with 2.5 - 3 m burden & 3 - 3.5 m spacing. Total 80 % (approx.) of planned quantity will require drilling & blasting. Holes will be charged with slurry explosives and initiated using detonating fuse/NONEL. | Not Carried out. The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 3k | Provision of mining machineries in mineral benches | Excavator and dumper combination have been proposed for mining in mineral benches. | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | The proposed height of bench is 6 m | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 3m | Total area covered under excavation/pits | Area under mining at the end of plan period will be 260.6765 Ha | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |

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| 3n | Ore to OB ratio for the pit/mine during the year. | Stripping ratio for iron ore 0.2 t/cum cum/cum and for manganese ore 2.93 t/cum | Not applicable as mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC. |
| 3o | Total area put in use under different heads at the end of year | Total area put in use under different heads at the end of plan period will be 319.0151Ha | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 3p | Production of ROM mineral during the last five year period as applicable | 2017-18: Iron-0.029 Million tones, Mn-0.02 million tones 2018-19: Iron-1.65 million tones, Mn-0.1 million tones | 2017-18: Nil 2018-19: Nil | The mine was non-operational due to want of EC and FC |
| 3q | General remarks of inspecting officers on method of mining etc. | ROM Production proposal during 2018-19: Iron ore: 1.65 million tones and Mn ore: 0.10 million tones | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
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| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | In 2018-19, there was no proposal for top soil generation. Separate dumping of OB proposed. Mineral reject proposed to be blended with high grade ore therefore no separate stacking of subgrade/mineral reject has been planned | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
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| 4b | Location of topsoil, OB and mineral reject dumps | <p>There is no proposal for top soil generation. Waste generated from iron ore to be dumped in waste dump WD2 proposed at southern side of deposit -2 between 332836E to 333098E & 2414575N to 2414956N.</p> <p>Waste generated from manganese has been planned to be dumped in waste Dump WD1M in the southern Side of Dep. 5 Top between 332785E to 333109 E & 2417160 N to 2417422N.</p> <p>Mineral reject proposed to be blended with high grade ore therefore no separate stacking of subgrade/mineral reject has been planned.</p> | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 4c | Number of dumps within lease area and outside of lease area | Existing waste dumps within Lease - 11 nos, Outside lease area - Nil | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |

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| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | In 2018-19, waste generated from iron ore has been planned to be dumped in waste dump WD2 and waste from manganese has been planned to be dumped in waste Dump WD1M. Both dumps are proposed to be outside the UPL | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 4e | Number of active and alive dumps. | In 2018-19, waste generated from iron ore has been planned to be dumped in waste dump WD2 and waste from manganese has been planned to be dumped in waste Dump WD1M. Both dumps are proposed to be outside the UPL | Nil | The mine was non-operational due to want of EC and FC |
| 4f | Number of dead dumps. | Existing 11 nos of dead dumps | Existing 11 nos of dead dumps | The mine was non-operational due to want of EC and FC |
| 4g | Number of dumps established. | Nil | Nil | Nil |

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| 4h | Whether Retaining wall or garland drain all along dumps are there. | In 2018-19, retaining wall and garland drain have been proposed near proposed waste dump WD3 on Northern side of deposit -8 of length 630 m and 635 m respectively | Nil | The mine was non-operational due to want of EC and FC |
| 4i | Length of Retaining wall or garland drain all along dumps | In 2018-19, retaining wall and garland drain have been proposed near proposed waste dump WD3 on Northern side of deposit -8 of length 630 m and 635 m respectively | Nil | The mine was non-operational due to want of EC and FC |
| 4j | Number of settling ponds | In 2018-19, one settling tank have been proposed near proposed waste dump WD3 on Northern side of deposit -8 | Nil | The mine was non-operational due to want of EC and FC |

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| 4k | Specific comments of inspecting officer on waste dump management | In 2018-19, there was no proposal for top soil generation. Separate dumping of OB proposed. Mineral reject proposed to be blended with high grade ore therefore no separate stacking of subgrade/mineral reject has been planned | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
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Solid Waste Management - Backfilling:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---------------------------------------|---|---|
| 5a | Status of part or full extraction of mineral from mined out area before starting backfilling. | Not Proposed | Nil | The mine was non-operational due to want of EC and FC |
| 5b | Area under backfilling of mined out area | Not Proposed | Nil | The mine was non-operational due to want of EC and FC |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | Not Proposed | Nil | The mine was non-operational due to want of EC and FC |
| 5d | Total area fully reclaimed and rehabilitated | Not Proposed | Nil | The mine was non-operational due to want of EC and FC |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | There was no proposal for backfilling | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |

Progressive Mine Clousre Plan:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|--|--|
| 6a | Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2). | Annual report on PMCP to be submitted as per Rule 26 (2) of MCDR, 2017 | Annual report on PMCP for the year 2018-19 have been submitted | Annual report on PMCP for the year 2018-19 have been submitted |
| 6b | Area available for rehabilitation (ha) . | Not proposed | Nil | The mine was non-operational due to want of EC and FC |
| 6c | afforestation done (ha). | Not proposed | Nil | Nil |
| 6d | No. of saplings planted during the year | 500 nos of saplings | 1000 nos of saplings planted | Nil |
| 6e | Cumulative no .of plants | Not Specified | 48250 nos of saplings planted | Nil |
| 6f | Any other method of rehabilitation | Not proposed | Nil | Nil |
| 6g | Cost incurred on watch and care during the year | 0.10 Lakhs | 0.30 lakhs | Nil |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | Not proposed | Nil | The mine was non-operational due to want of EC and FC |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | Not proposed | Nil | The mine was non-operational due to want of EC and FC |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area | Not proposed | Nil | The mine was non-operational due to want of EC and FC |

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|----|--|---|---|---|
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | Not proposed | Nil | The mine was non-operational due to want of EC and FC |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v) any other specific means. | Not proposed | Nil | The mine was non-operational due to want of EC and FC |
| 6m | Compliance of rehabilitation of waste land within lease (i) afforestation | Not proposed | Nil | The mine was non-operational due to want of EC and FC |
| 6n | Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha) | Not proposed | Nil | The mine was non-operational due to want of EC and FC |
| 6o | Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation | Not proposed | Nil | The mine was non-operational due to want of EC and FC |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | The monitoring of ambient air quality, surface water & ground water quality and noise quality will be carried out for all the four quarters of the year | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |

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| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | Annual report on PMCP to be submitted as per Rule 26 (2) of MCDR, 2017 | Annual report on PMCP for the year 2018-19 have been submitted | The mine was non-operational due to want of EC and FC |
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Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|---|---|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | Grade wise sorting within lease area | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Fully Mechanized method of working for Iron ore and Manganese excavation. Manual sorting and sizing of Manganese ore. | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 7c | Different grade of mineral sorted out at mines. | Iron Ore: 45% Fe to 55% Fe and above 55% Fe; Mn Ore: 10% Mn to 25% Mn and above 25% Mn | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 7d | Any beneficiation process at mines | Not Proposed | Nil | Nil |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | No comments to offer | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|--|---|
| 8a | Separate removal and utilization of topsoil (Rule 32) | Not Proposed | Nil | Nil |
| 8b | Concurrent use or storage of topsoil | Not proposed | Nil | Nil |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Separate dumping of OB proposed. Mineral reject proposed to be blended with high grade ore therefore no separate stacking of subgrade/mineral reject has been planned. | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | Not Proposed | Nil | Nil |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Not Proposed | Nil | Nil |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | 500 nos. of sapling proposed plantation | 1000 nos. of sapling planted | Nil |
| 8g | Survival rate | Not Specified | Survival rate : 40% as reported in annual return for 2018-19 | Nil |

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| 8h | Water sprinkling on roads to control airborne dust | Water sprinkling on haul roads proposed | The mine was non-operational due to want of EC and FC | The mine was non-operational due to want of EC and FC |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | No comments to offer | Aesthetic beauty of mine is maintained | The mine was non-operational due to want of EC and FC |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|---|---|
| 9a | Status of submission of Monthly and Annual returns | Monthly and Annual returns to be submitted as per rule 45 of MCDR 2017 | Monthly returns and annual return for 2018-19 have been submitted | Monthly returns and annual return for 2018-19 have been submitted |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Information on Manager have been furnished in annual return for 2018-19 | Information on Manager have been furnished in annual return for 2018-19 | Information on Manager have been furnished in annual return for 2018-19 |

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| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Lease area (surface area) utilization at the end of the year as furnished in annual return for 2018-19. Covered under current working: 196.972 ha, Used for waste disposal: 39.46 Ha, Occupied by plant buildings, residential, welfare buildings & roads: 24.121 Ha, other purposes: 1.265 Ha | Lease area (surface area) utilization at the end of the year as furnished in annual return for 2018-19. Covered under current working: 196.972 ha, Used for waste disposal: 39.46 Ha, Occupied by plant buildings, residential, welfare buildings & roads: 24.121 Ha, other purposes: 1.265 Ha | The mine was non-operational due to want of EC and FC |
| 9d | Scrutiny of Annual return on afforestation | 1000 nos of saplings planted | 1000 nos of saplings planted | Nil |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Nil | Nil | The mine was non-operational due to want of EC and FC |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Closing stock of ROM : Iron Ore: 57536 tones, Mn-2564 tones | Found to be in order | The mine was non-operational due to want of EC and FC |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Production Cost: Nil | Production Cost: Nil. The mine was non-operational due to want of EC and FC | Nil |
| 9h | Scrutiny of Annual return on fixed assets | Value of Fixed Assets (in Rs) 8035689 | Value of Fixed Assets (in Rs) 8035689 | As reported in annual return |
| 9k | Scrutiny of Annual return on mining machineries | Nil | Nil | The mine was non-operational due to want of EC and FC |

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 |

Date :

Sudip Ranjan Mazumdar
22/03/2020
(SHRI SUDIP RANJAN MAZUMDAR)

Indian Bureau of Mines