

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/KJR/MCDR-88/BBS

Mine code : 30ORI08119

- (i) Name of the Inspecting : **RAM**) **RAMKISHAN R**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri B K Padhi, Agent
Official with
Designation
- (iv) Date of Inspection : 24/03/2021
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JAJANG IRON ORE BLOCK**
- (b) **Registration NO.** : **IBM/432/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : Jajang
- Taluka : Barbil
- Post office : Barbil
- Pin Code : 758035
- FAX No. :
- E-mail : ranjan.nayak@jsw.in
- Phone : 9773322308
- (f) Police Station : JODA
- (g) First opening date : 01/07/2020
- (h) Weekly day of rest : SUN
2. Address for :
correspondance
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : M/S JSW STEEL LTD
KEONJHAR ORISSA
Phone:
FAX :

6. Date of approval of Mining : MP under 16(1) of MCR 2016 19/08/2020
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|---|---|--|
| 1a | Backlog of previous year | Nil | Nil | Nil |
| 1b | Exploration over lease area for geological axis 1 or 2 | No valid proposal for the year 2019-20. | Nil | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | Nil | Nil | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | No valid proposal for the year 2019-20. | Nil | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. |
| 1e | Balance reserve as on 01/04/20 | As per the approved document on dated 20.04.2021 the iron ore reserves are 55.21 mil.t and resources are 11.52 mil.t. | As per the approved document on dated 20.04.2021 the iron ore reserves are 55.21 mil.t and resources are 11.52 mil.t. | |

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|----|--|---|
| 1f | General remarks of inspecting officers on geology, exploration etc | The rocks of the Iron ore series in West Singhbhum, Keonjhar and Boani give rise to a rugged topography. The beds of banded hematite-jasper form prominent ridges rising to about 2500 to 3000 ft. in altitude. The lower ground is occupied by lavas, phyllites and shales. The whole succession of rocks is folded into a series of asymmetrical or slightly over tuned anticlines and synclines. |
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Development :

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|-------------|--|
| 2a | Location of development w.r.t.lease area | No valid proposal for the year 2019-20. | Nil | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Nil | Nil | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. |
| 2c | Stripping ratio or ore to OB ratio | Nil | Nil | |
| 2d | Quantity of topsoil generation in m3 | Nil | Nil | |
| 2e | Quantity of overburden generation in m3 | Nil | Nil | |

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|----|---|--|
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. |
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Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|--|---------|
| 3a | Number of pit proposed for production | No valid proposal for the year 2019-20. | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. | |
| 3b | Quantity of ROM mineral production proposed | Nil | Nil | |
| 3c | Recovery of sailable/usable mineral from ROM production | Nil | Nil | |
| 3d | Quantity of mineral reject generation | Nil | Nil | |
| 3e | Grade of mineral rejects generation and threshold value declared. | Nil | Nil | |
| 3f | Quantity of sub grade mineral generation. | Nil | Nil | |
| 3g | Grade of sub grade mineral generation | Nil | Nil | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Nil | Nil | |

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|----|--|----------------|--|
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | Nil | Nil |
| 3j | Provision of drilling and blasting in mineral benches | Nil | Nil |
| 3k | Provision of mining machineries in mineral benches | Nil | Nil |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Nil | Nil |
| 3m | Total area covered under excavation/pits | Nil | Nil |
| 3n | Ore to OB ratio for the pit/mine during the year. | Nil | Nil |
| 3o | Total area put in use under different heads at the end of year | Nil | Nil |
| 3p | Production of ROM mineral during the last five year period as applicable | Not applicable | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. |
| 3q | General remarks of inspecting officers on method of mining etc. | | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. |

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) | No valid proposal for the year 2019-20. | Nil | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. |
| 4b | Location of topsoil, OB and mineral reject dumps | Nil | Nil | |
| 4c | Number of dumps within lease area and outside of lease area | Nil | Nil | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | Nil | Nil | |
| 4e | Number of active and alive dumps. | Nil | Nil | |
| 4f | Number of dead dumps. | Nil | Nil | |
| 4g | Number of dumps established. | Nil | Nil | |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Nil | Nil | |
| 4i | Length of Retaining wall or garland drain all along dumps | Nil | Nil | |
| 4j | Number of settling ponds | Nil | Nil | |
| 4k | Specific comments of inspecting officer on waste dump management | | | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. |

Solid Waste Management - Backfilling:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|------|-----------|-------------|---------|
|--------|------|-----------|-------------|---------|

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| 5a | Status of part or full extraction of mineral from mined out area before starting backfilling. | No valid proposal for the year 2019-20. | Nil | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. |
| 5b | Area under backfilling of mined out area | Nil | Nil | |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | Nil | Nil | |
| 5d | Total area fully reclaimed and rehabilitated | Nil | Nil | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. |

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). | No valid proposal for the year 2019-20. | Nil | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. |
| 6b | Area available for rehabilitation (ha) . | Nil | Nil | |
| 6c | afforestation done (ha). | Nil | Nil | |
| 6d | No. of saplings planted during the year | Nil | Nil | |

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|----|---|-----|-----|
| 6e | Cumulative no .of plants | Nil | Nil |
| 6f | Any other method of rehabilitation | Nil | Nil |
| 6g | Cost incurred on watch and care during the year | Nil | Nil |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | Nil | Nil |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | Nil | Nil |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area | Nil | Nil |
| 6k | Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir | Nil | Nil |
| 6l | Compliance on reclamation and rehabilitation by backfilling (v)any other specific means. | Nil | Nil |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation | Nil | Nil |

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|----|---|-----|--|
| 6n | Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha) | Nil | Nil |
| 6o | Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation | Nil | Nil |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | Nil | Nil |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. |

Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|-------------|--|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | No valid proposal for the year 2019-20. | Nil | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Nil | Nil | |
| 7c | Different grade of mineral sorted out at mines. | Nil | Nil | |

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|----|--|-----|--|
| 7d | Any beneficiation process at mines . | Nil | Nil |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. |

Environment :

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|---|-------------|--|
| 8a | Separate removal and utilization of topsoil (Rule 32) | No valid proposal for the year 2019-20. | Nil | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. |
| 8b | Concurrent use or storage of topsoil | Nil | Nil | |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Nil | Nil | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | Nil | Nil | |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Nil | Nil | |

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|----|--|-----|--|
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | Nil | Nil |
| 8g | Survival rate | Nil | Nil |
| 8h | Water sprinkling on roads to control airborne dust | Nil | Nil |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--|---------------------------|---------|
| 9a | Status of submission of Monthly and Annual returns | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. | Monthly return submitted. | |
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Not applicable | Nil | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | Not applicable | Nil | |
| 9d | Scrutiny of Annual return on afforestation | Not applicable | Nil | |

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|----|---|--------------------|--|
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | Not applicable Nil | |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | Not applicable Nil | |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Not applicable Nil | |
| 9h | Scrutiny of Annual return on fixed assets | Not applicable Nil | |
| 9k | Scrutiny of Annual return on mining machineries | | Mine was opened on 01.07.2020, as it is a auctioned mine. The approved mining plan proposal was from the year 2020-21. |

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

| Violation observed | | Show couse position | |
|--------------------|-------------------------|---------------------|-------------------------|
| Rule NO. | Issued on Compliance on | Rule NO. | Issued on Compliance on |

Date :

(RAMKISHAN R)

Indian Bureau of Mines