

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/MN/KJR/MCDR-2/BBS

Mine code : 40ORI08003

- (i) Name of the Inspecting : **SKM1**) **SANJIB KUMAR MOHAPATRA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sri Prana Krushna Mohanta (Mines Manager), Sri Ashis
Official with
Designation
- (iv) Date of Inspection : 23/06/2022
- (v) Prev.inspection date : 20/10/2021

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BAMEBARI**
- (b) **Registration NO.** : **IBM / 4376 / 2011**
- (c) Category : A Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : KEONJHAR
- Village : BAMEBARI
- Taluka : CHAMPUA
- Post office : BAMEBARI
- Pin Code :
- FAX No. : 06767-272027,272246
- E-mail : bmm.mnmines@tatasteel.com
- Phone : 06767-279208
- (f) Police Station : Joda
- (g) First opening date : 01/03/1939
- (h) Weekly day of rest : SUN
2. Address for : BAMEBARI MN MINES
correspondance VIL/PO-BAMEBARI
DIST-KEONJHAR, ORISSA-758034
3. (a) Lease Number : ORI0187
- (b) Lease area : 464
- (c) Period of lease : 20
- (d) Date of Expiry : 31/03/2000 ~~2000~~ 2030
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : TATA IRON & STEEL CO. LTD.
TATA IRON & STEEL CO. OMQ,
NUAMUNDI JHARKHAND
SINGHBHUM (WEST) JHARKHAND
Phone:
FAX :

Owner : Sri T.V. Narendran
Managing Director, M/s TATA
Steel Jamshedpur, Dist-East
Singhbhum Jharkhand-831001
KEONJHAR ORISSA
Phone: 0657-2423298
FAX : 0657-2431818

Agent : AMIT KUMAR DUBEY
KEONJHAR ORISSA
Phone: 9238101140
FAX :

Mining Engineer

Name : Sri Maruti Nandan Suman, Full Time
Qualification : B. Tech (Mining) & FCC
Appointment/ : 19/01/2015
Termination date

Geologist

Name : Sri Joydeep Bhattacharjee, Full Time
Qualification : M.Sc. (Applied Geology)
Appointment/ : 16/10/2017
Termination date

Manager

Name : Sri Rimplal Joshi
Qualification : AMIE (Mining) & FCC
Appointment/ : 18/06/2014
Termination date

6. Date of approval of Mining	:	Modif. approved Mining Scheme	24/03/2005
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	05/12/2007
	:	Mining Scheme rule 12 MCDR1988	09/06/2010
	:	FMCP under 23C(1)	20/01/2015
	:	Mining Scheme rule 12 MCDR1988	26/03/2015
	:	Modif. approved Mining Scheme	04/05/2018
	:	MP review under 17(1) MCR 2016	03/08/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	905 nos of bore holes	49 nos of bore holes	The lesee could not carried out the proposed exploration due not obtaining statutory clearances, i.e Forest clearance. However a violation letter in this regard has been issued vide dated 07/07/2022 for contravention of rule 11 of MCDR 2017.
1b	Exploration over lease area for geological axis 1 or 2	Not specified.	4.61 Ha	The lesee could not carried out the proposed exploration due not obtaining statutory clearances, i.e Forest clearance. However a violation letter in this regard has been issued vide dated 07/07/2022 for contravention of rule 11 of MCDR 2017.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Rs- 84.76 lakhs	The lesee could not carried out the proposed exploration due not obtaining statutory clearances, i.e Forest clearance. However a violation letter in this regard has been issued vide dated 07/07/2022 for contravention of rule 11 of MCDR 2017.

1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified.	259.55 Ha	The lesee could not carried out the proposed exploration due not obtaining statutory clearances, i.e Forest clearance. However a violation letter in this regard has been issued vide dated 07/07/2022 for contravention of rule 11 of MCDR 2017.
1e	Balance reserve as on 01/04/20		Mn. Ore- 2.777 million tonnes Iron Ore- 0.709 million tonnes	Mn. Ore- 2.777 million tonnes Iron Ore- 0.709 million tonnes
1f	General remarks of inspecting officers on geology, exploration etc		The lesee could not carried out the proposed exploration due not obtaining statutory clearances, i.e Forest clearance. However a violation letter in this regard has been issued vide dated 07/07/2022 for contravention of rule 11 of MCDR 2017.	The lesee could not carried out the proposed exploration due not obtaining statutory clearances, i.e Forest clearance. However a violation letter in this regard has been issued vide dated 07/07/2022 for contravention of rule 11 of MCDR 2017.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Bamebari- N2513-N2716, E3297-E3530 Joribar- N11252-N11495, E12312-12736 Bonaikela- N4077-N4189, E4817-E4935	Bamebari- Nil, No development carried out. Joribar- N11252-N11490, E12312-12734 Bonaikela- Nil, No development carried out.	Bamebari- Nil, No development carried out. Joribar- N11252-N11490, E12312-12734 Bonaikela- Nil, No development carried out. The lesee could not carried out the proposed development due not obtaining statutory clearances, i.e Forest clearance. However a violation letter in this regard has been issued vide dated 07/07/2022 for contravention of rule 11 of MCDR 2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches for OB & Ore can not be possible, based on the deposit and nature of the Mn ore.	Separate benches for OB & Ore can not be possible, based on the deposit and nature of the Mn ore & maintained wherever possible.	Separate benches for OB & Ore can not be possible, based on the deposit and nature of the Mn ore & maintained wherever possible.
2c	Stripping ratio or ore to OB ratio	Bamebari- 1:18.65 Joribar- 1:0.83 Bonaikela- 1:2.15 Average- 1:1.24	Bamebari- Nil Joribar- 1:0.25 Bonaikela- Nil Average- 1:0.25	Bamebari- Nil Joribar- 1:0.25 Bonaikela- Nil Average- 1:0.25 As development has not been carredid out as per the proposal, there is deviation in stripping ratio.
2d	Quantity of topsoil generation in m3	Nil	Nil	Nil

2e	Quantity of overburden generation in m3	Bamebari- 70378 cum Joribar- 156310 Cum Bonaikela- 28253 Cum Total- 254941 Cum	Bamebari- Nil Joribar- 156222 Cum Bonaikela- Nil Total- 156222 Cum	Bamebari- Nil Joribar- 156222 Cum Bonaikela- Nil Total- 156222 Cum The lesee could not carried out the proposed development due not obtaining statutory clearances, i.e Forest clearance. However a violation letter in this regard has been issued vide dated 07/07/2022 for contravention of rule 11 of MCDR 2017.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The lesee could not carried out the proposed development due not obtaining statutory clearances, i.e Forest clearance. However a violation letter in this regard has been issued vide dated 07/07/2022 for contravention of rule 11 of MCDR 2017.	The lesee could not carried out the proposed development due not obtaining statutory clearances, i.e Forest clearance. However a violation letter in this regard has been issued vide dated 07/07/2022 for contravention of rule 11 of MCDR 2017.	

Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
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3a	Number of pit proposed for production	Bamebari Block- 1 No, Joribar Block- 1No, Bonaikela Block- 1 No	Joribar Block- 1No,	Joribar Block- 1No The lesee could not carried out the exploitation as per the proposal during the reporting year. A violation letter vide dated 07.07.2022 has been issued to the lesee in this regard.
3b	Quantity of ROM mineral production proposed	Bamebari Block- 3331 tons, Joribar Block- 236734 tons, Bonaikela Block-31903 tons	Joribar Block- 56182 tons,	Joribar Block- 56182 tons. The lesee could not carried out the exploitation as per the proposal during the reporting year. A violation letter vide dated 07.07.2022 has been issued to the lesee in this regard.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	100%
3d	Quantity of mineral reject generation	Bamebari Block- 2126 tons, Joribar Block- 247489 tons, Bonaikela Block-385 tons	Joribar Block- 46585 tons	Joribar Block- 46585 tons. The lesee could not carried out the exploitation as per the proposal during the reporting year. A violation letter vide dated 07.07.2022 has been issued to the lesee in this regard.

3e	Grade of mineral rejects generation and threshold value declared.	Saleable Ore:+58 % Fe, Mineral Reject:- +45 to 58% Fe & Saleable Ore:+25 % Fe, Mineral Reject:- +10 to 25% Mn were proposed.	Saleable Ore:+58 % Fe, Mineral Reject:- +45 to 58% Fe & Saleable Ore:+25 % Fe, Mineral Reject:- +10 to 25% Mn sorting are being praticed.	Saleable Ore:+58 % Fe, Mineral Reject:- +45 to 58% Fe & Saleable Ore:+25 % Fe, Mineral Reject:- +10 to 25% Mn sorting are being praticed.
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mn- Manual	Mn- Manual	Mn- Manual
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed during the reporting year.	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Yes, Jack Hammer 115 mm dia Drills. Blasting proposed with LD explosives of 25mm dia. & 83mm dia. with detonating cord & milli second delay detonators.	Yes, Jack Hammer 115 mm dia Drills. Blasting proposed with LD explosives of 25mm dia. & 83mm dia. with detonating cord & milli second delay detonators.	Yes, Jack Hammer 115 mm dia Drills. Blasting proposed with LD explosives of 25mm dia. & 83mm dia. with detonating cord & milli second delay detonators.
3k	Provision of mining machineries in mineral benches	Yes, Shovel and Dumper combination proposed.	Yes, Shovel and Dumper combination carried out.	Yes, Shovel and Dumper combination carried out.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The height of the bench proposed is 6m.	The height of the bench is suitable for the method of mining proposed in review of mining plan.	The height of the bench is suitable for the method of mining proposed in review of mining plan.

3m	Total area covered under excavation/pits	101.135 ha at the end of the plan period.	88.050 at the end of the reporting year.	88.050 at the end of the reporting year.
3n	Ore to OB ratio for the pit/mine during the year.	Bamebari Block- 1:18.65, Joribar Block- 1:0.83, Bonaikela Block-1:2.15	Joribar Block- 1:0.25,	Joribar Block- 1:0.25,
3o	Total area put in use under different heads at the end of year	As per the approved review of mining plan , the total area under different heads at the end of plan period will be 101.138 Ha.	The total area under different heads at the end of the reporting year is 88.050Ha.	The total area under different heads at the end of the reporting year is 88.050Ha.
3p	Production of ROM mineral during the last five year period as applicable	Mn. Ores 2016-17: 97885 tonnes 2017-18: 97883 tonnes 2018-19: 97882 tonnes 2019-20: 97882 tonnes 2020-21: 96400 tonnes 2021-22: 275680 tonnes	Mn. Ores 2016-17: 83146 tonnes 2017-18: 78406 tonnes 2018-19: 79619 tonnes 2019-20: 92223 tonnes 2020-21: 89839 tonnes 2021-22: 56182 tonnes	Mn. Ores 2016-17: 83146 tonnes 2017-18: 78406 tonnes 2018-19: 79619 tonnes 2019-20: 92223 tonnes 2020-21: 89839 tonnes 2021-22: 56182 tonnes
3q	General remarks of inspecting officers on method of mining etc.		The lesee has carried out as per the proposal but could not achieved the proposed production of Mn. ore due to lack of statutory clearances during the reporting year.	The lesee has carried out as per the proposal but could not achieved the proposed production of Mn. ore due to lack of statutory clearances during the reporting year.

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)	Separate stacking of OB & mineral reject was proposed.	Separate stacking of OB & mineral reject was carried out during the reporting year.	Separate stacking of OB & mineral reject was carried out during the reporting year.
4b	Location of topsoil, OB and mineral reject dumps	OB Dump:- Bamebari:- 2182N-2703N &3047E-3543E, Bonaikela:- 4395N-4606N & 4890E-5180E Mineral reject:- Bamebari:- 2503N-2702N &3141E-3205E, Joribar:- 11470N-11697N & 12800E- 13034E Bonaikela:- 4033N-4193N & 4908E-5088E	OB Dump:- Bamebari:- 2182N-2460N & 3054E-3430E, Mineral reject:- Joribar:- 11504N-11585N & 12585E-12596E	the lesee could not carried out the backfilling, OB dump and mineral reject as per the proposal. A violation letter in this regard has been issued vide letter dated 07.07.2022 to the lesee.
4c	Number of dumps within lease area and outside of lease area	7 Nos & 1 backfilling	1 backfilling	1 backfilling
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OB Dump:- Bamebari:- 2182N-2703N &3047E-3543E, Bonaikela:- 4395N-4606N & 4890E-5180E Mineral reject:- Bamebari:- 2503N-2702N &3141E-3205E, Joribar:- 11470N-11697N & 12800E- 13034E Bonaikela:- 4033N-4193N & 4908E-5088E	OB Dump:- Bamebari:- 2182N-2460N & 3054E-3430E, Mineral reject:- Joribar:- 11504N-11585N & 12585E-12596E	the lesee could not carried out the backfilling, OB dump and mineral reject as per the proposal. A violation letter in this regard has been issued vide letter dated 07.07.2022 to the lesee.

4e	Number of active and alive dumps.	One	Nil	the lesee could not carried out the backfilling, OB dump and mineral reject as per the proposal. A violation letter in this regard has been issued vide letter dated 07.07.2022 to the lesee.
4f	Number of dead dumps.	Four	Four	Four
4g	Number of dumps established.	Three already established, Nil proposed during reporting year.	Three already established, Nil carried out during reporting year.	Three already established, Nil carried out during reporting year.
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	Not proposed during the reporting year.
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	Not proposed during the reporting year.
4j	Number of settling ponds	One	Nil	Not carried out.
4k	Specific comments of inspecting officer on waste dump management		The lesee could not carried out the backfilling, OB dump and mineral reject as per the proposal. A violation letter in this regard has been issued vide letter dated 07.07.2022 to the lesee.	The lesee could not carried out the backfilling, OB dump and mineral reject as per the proposal. A violation letter in this regard has been issued vide letter dated 07.07.2022 to the lesee.

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.	Proposal of Bamebari pit within the extent of 2182N-2730N & 3047E-3543E from 580 mRL to 590 mRL.	Backfilling carried out Bamebari pit within the extent of 2182N-2460N & 3054E-3430E from 558 mRL to 579 mRL.	The lesee could not carried out the proposed back filling in Bamebari pit due not obtaining statutory clearances, i.e Forest clearance. However a violation letter in this regard has been issued vide dated 07/07/2022 for contravention of rule 11 of MCDR 2017.
5b	Area under backfilling of mined out area	1.58 Ha	1.30 Ha	The lesee could not carried out the proposed back filling in Bamebari pit due not obtaining statutory clearances, i.e Forest clearance. However a violation letter in this regard has been issued vide dated 07/07/2022 for contravention of rule 11 of MCDR 2017.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	Not proposed	Not carried out	No proposal during the reporting year.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	The lessee could not carried out the proposed backfilling in Bamebari pit due not obtaining statutory clearances, i.e Forest clearance. However a violation letter in this regard has been issued vide dated 07/07/2022 for contravention of rule 11 of MCDR 2017. As the mine is not matured during the reporting year, no proposal for fully reclamation and rehabilitation was proposed during the reporting year.	The lessee could not carried out the proposed backfilling in Bamebari pit due not obtaining statutory clearances, i.e Forest clearance. However a violation letter in this regard has been issued vide dated 07/07/2022 for contravention of rule 11 of MCDR 2017. As the mine is not matured during the reporting year, no proposal for fully reclamation and rehabilitation was proposed during the reporting year.
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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).	As per Rule 26(2) Annual PMCP report to be submitted before 1st day of July of Every Year.	Yet to be submitted, Not submitted till the date of inspection.	Yet to be submitted, Not submitted till the date of inspection.
6b	Area available for rehabilitation (ha) .	Nil	Nil	Nil
6c	afforestation done (ha).	1.00 Ha with 2500 sapplings.	1.00 Ha with 2700 sapplings.	1.00 Ha with 2700 sapplings.
6d	No. of sapplings planted during the year	1.00 Ha with 2500 sapplings.	1.00 Ha with 2700 sapplings.	1.00 Ha with 2700 sapplings.

6e	Cumulative no .of plants	1.00 Ha with 2500 sapplings.	1.00 Ha with 2700 sapplings.	1.00 Ha with 2700 sapplings.
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Nil	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Bamebari Block-Backfilling: 1.580 Ha.	Bamebari Block-Backfilling: 1.300 Ha.	Bamebari Block-Backfilling: 1.300 Ha. The lesee could not achieved the proposed back filling during the reporting year. a violation letter vide dated 07.07.2022 has been issued in this regard.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Bamebari Block-Backfilling: 1.580 Ha.	Bamebari Block-Backfilling: 1.300 Ha.	Bamebari Block-Backfilling: 1.300 Ha. The lesee could not achieved the proposed back filling during the reporting year. a violation letter vide dated 07.07.2022 has been issued in this regard.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	1.00 ha with 2500 sapplings	1.00 ha with 2700 sapplings	1.00 ha with 2700 sapplings
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	Nil

6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Nil	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	1.00 Ha with 2500 sapplings	1.00 Ha with 2700 sapplings	1.00 Ha with 2700 sapplings
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	1.00 Ha with 2500 sapplings	1.00 Ha with 2700 sapplings	1.00 Ha with 2700 sapplings
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation	Plantation	Plantation
6p	Compliance of environmental monitoring (core zone and buffer zone)	Air, Noise and Water quality monitoring will be done during the year within the lease area.	Air, Noise and Water quality monitoring carried out as per the proposal during the reporting year.	Air, Noise and Water quality monitoring carried out as per the proposal during the reporting year.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	The lessee has carried out afforestation and environmental monitoring as per the proposal during the reporting year. However, the lessee could not completed the backfilling as per the proposal during the reporting year, a vioaltion letter vide dated 07.07.2022 has been issued to the lessee in this regard.	The lessee has carried out afforestation and environmental monitoring as per the proposal during the reporting year. However, the lessee could not completed the backfilling as per the proposal during the reporting year, a vioaltion letter vide dated 07.07.2022 has been issued to the lessee in this regard.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Chemical Grade- >48% Mn. & <4% Fe High Grade- >46% Mn. Medium Grade- >35% Mn. & <46% Mn. Low Grade- >25% Mn. & <35% Mn. Sub Grade- >10% Mn. & <25% Mn. are to be sorted within lease hold area.	Chemical Grade- >48% Mn. & <4% Fe High Grade- >46% Mn. Medium Grade- >35% Mn. & <46% Mn. Low Grade- >25% Mn. & <35% Mn. Sub Grade- >10% Mn. & <25% Mn. are sorted within lease hold area.	Chemical Grade- >48% Mn. & <4% Fe High Grade- >46% Mn. Medium Grade- >35% Mn. & <46% Mn. Low Grade- >25% Mn. & <35% Mn. Sub Grade- >10% Mn. & <25% Mn. are sorted within lease hold area.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	Manual

7c	Different grade of mineral sorted out at mines.	Chemical Grade- >48% Mn. & <4% Fe High Grade- >46% Mn. Medium Grade- >35% Mn. & <46% Mn. Low Grade- >25% Mn. & <35% Mn. Sub Grade- >10% Mn. & <25% Mn. are to be sorted within lease hold area.	Chemical Grade- >48% Mn. & <4% Fe High Grade- >46% Mn. Medium Grade- >35% Mn. & <46% Mn. Low Grade- >25% Mn. & <35% Mn. Sub Grade- >10% Mn. & <25% Mn. are sorted within lease hold area.	Chemical Grade- >48% Mn. & <4% Fe High Grade- >46% Mn. Medium Grade- >35% Mn. & <46% Mn. Low Grade- >25% Mn. & <35% Mn. Sub Grade- >10% Mn. & <25% Mn. are sorted within lease hold area.
7d	Any beneficiation process at mines .	Manual sorting , sizing and mechanical screening.	Manual sorting , sizing and mechanical screening.	Manual sorting , sizing and mechanical screening.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Chemical Grade- >48% Mn. & <4% Fe High Grade- >46% Mn. Medium Grade- >35% Mn. & <46% Mn. Low Grade- >25% Mn. & <35% Mn. Sub Grade- >10% Mn. & <25% Mn. sorting stocks are being practiced. Further no beneficiation process was proposed. Only mechanical screening is being carried out during the reporting year.	Chemical Grade- >48% Mn. & <4% Fe High Grade- >46% Mn. Medium Grade- >35% Mn. & <46% Mn. Low Grade- >25% Mn. & <35% Mn. Sub Grade- >10% Mn. & <25% Mn. sorting stocks are being practiced. Further no beneficiation process was proposed. Only mechanical screening is being carried out during the reporting year.

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No generation of top soil	Nil	Nil
8b	Concurrent use or storage of topsoil	Nil	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate stacking of OB & mineral reject was proposed during the reporting year.	Separate stacking of OB & mineral reject are being practiced during the reporting year.	Separate stacking of OB & mineral reject are being practiced during the reporting year.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling of Bamebari pit by Ob has been proposed over 1.580 ha.	Backfilling of Bamebari pit by OB has been carried out over 1.300 ha during the reporting year.	The lesee could not achieved the proposed backfilling during the reporting year. A violation letter has been issued vide letter dated 07.07.2022 in this regard.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Bamebari Block-back Filling: 1.580 ha, Afforestation: 1.00 ha with 2500 sapplings.	Bamebari Block-back Filling: 1.300 ha, Afforestation: 1.00 ha with 2700 sapplings.	Bamebari Block-back Filling: 1.300 ha, Afforestation: 1.00 ha with 2700 sapplings.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1.00 ha with 2500 sapplings	1.00 ha with 2700 sapplings	1.00 ha with 2700 sapplings
8g	Survival rate	85%	82%	82%

8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads and Screening plant locations were proposed.	Water sprinkling by mobile water tanker over haulroads and Screening plant locations have been carried out.	Water sprinkling by mobile water tanker over haulroads and Screening plant locations have been carried out.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Lessee has planted 2700 no of sapling over 1.00 ha within the lease area and waters prinkling by water tanker over haul roads to minimize the fugutive dust emmision. This sustains the asthetic beauty of the mine area.	Lessee has planted 2700 no of sapling over 1.00 ha within the lease area and waters prinkling by water tanker over haul roads to minimize the fugutive dust emmision. This sustains the asthetic beauty of the mine area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns for the month of May 2022 and annual return for FY 2021-22 have been submitted within the stipulated time period.	Monthly returns for the month of May 2022 and annual return for FY 2021-22 have been submitted within the stipulated time period.	Monthly returns for the month of May 2022 and annual return for FY 2021-22 have been submitted within the stipulated time period.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri Prana Krushna Mohanta- Mines manager, Sri Alok Singh Sardar-Mining Engineer, Sri Ashis Mohanty - Geologist, Mines manager, Mining engineer & Geologist were present during the inspection.	Sri Prana Krushna Mohanta- Mines manager, Sri Alok Singh Sardar-Mining Engineer, Sri Ashis Mohanty - Geologist, Mines manager, Mining engineer & Geologist were present during the inspection.	Sri Prana Krushna Mohanta- Mines manager, Sri Alok Singh Sardar-Mining Engineer, Sri Ashis Mohanty -Geologist, Mines manager, Mining engineer & Geologist were present during the inspection.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	At the end of the plan period: Pit- 101.138 ha. Top soil- 0.450 Ha Waste Dump- 57.166 ha. Mineral Storage- 14.708 Ha. Infrastructure - 5.451 ha. Roads- 11.420 ha Green Belt- 17.150 Ha Township - 24.35 ha Total- 231.833 ha	At the end of the reporting Year: Pit- 88.050 ha. Top soil- Nil Waste Dump- 46.884 ha. Mineral Storage- 8.016 Ha. Infrastructure- 4.086 ha. Roads- 10.420 ha Green Belt- 21.044 Ha Township - 24.35 ha Total- 202.850 ha	At the end of the reporting Year: Pit- 88.050 ha. Top soil- Nil Waste Dump- 46.884 ha. Mineral Storage- 8.016 Ha. Infrastructure- 4.086 ha. Roads- 10.420 ha Green Belt- 21.044 Ha Township - 24.35 ha Total- 202.850 ha
9d	Scrutiny of Annual return on afforestation	2700 Sapplings, 1.00 Ha	2700 Sapplings, 1.00 Ha	2700 Sapplings, 1.00 Ha
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	46585 tonnes	Joribar Quarry-46585 tonnes	Joribar Quarry-46585 tonnes

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Mn. Dioxide- 1.402 tonnes +46% Mn. - 1019.277 tonnes +35-46% Mn.- 2454.536 tonnes +25-35% Mn. - 23080.851 tonnes -25% Mn. - 340297.382 tonnes	Mn. Dioxide- 1.402 tonnes +46% Mn. - 1019.277 tonnes +35-46% Mn.- 2454.536 tonnes +25-35% Mn. - 23080.851 tonnes -25% Mn. - 340297.382 tonnes	Mn. Dioxide- 1.402 tonnes +46% Mn. - 1019.277 tonnes +35-46% Mn.- 2454.536 tonnes +25-35% Mn. - 23080.851 tonnes -25% Mn. - 340297.382 tonnes
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Preoduction of Mn. Ore= 6155.05/tonnes	Cost of Preoduction of Mn. Ore= 6155.05/tonnes	Cost of Preoduction of Mn. Ore= 6155.05/tonnes
9h	Scrutiny of Annual return on fixed assets	Fixed Assets: Rs. 162215668.26/-	Fixed Assets: Rs. 162215668.26/-	Fixed Assets: Rs. 162215668.26/-
9k	Scrutiny of Annual return on mining machineris	Shovel-5Nos (0.9 Cum) , Shovel-3No , Wheel loader: 1 nos, Dumper: 20 nos, Rock drill: 1no, Dozer: 1 no, Water tanker: 2 nos.	Shovel-5Nos (0.9 Cum) , Shovel-3No , Wheel loader: 1 nos, Dumper: 20 nos, Rock drill: 1no, Dozer: 1 no, Water tanker: 2 nos.	Shovel-5Nos (0.9 Cum) , Shovel-3No , Wheel loader: 1 nos, Dumper: 20 nos, Rock drill: 1no, Dozer: 1 no, Water tanker: 2 nos.

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
MCDR17	Rule 11(1)	07/07/2022			

Date : 01/09/2022

(SANJIB KUMAR MOHAPATRA)

Indian Bureau of Mines