MCDR-MiFLOFE/25/2023-BBS-IBM_RO_BBS INDIAN BUREAU OF MINES

MINERALS DEVELOPMENT AND REGULATION DIVISION

1/22736/2024

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON/SNG/MCDR-7/BBS Mine code : 300RI13028

(i) Name of the Inspecting: SKM1) SANJIB KUMAR MOHAPATRA

Officer and ID No.

(ii) Designation : Senior Mining Geologist

(iii) Accompaning mine : Sri Kamala Kanta Nanda(Agent), Sri Abhimanyu Samal (M

Official with Designation

(iv) Date of Inspection : 01/11/2023
(v) Prev.inspection date : 17/08/2022

PART-I : GENERAL INFORMATION

1. (a) Mine Name : TANTRA, RAIKELA & BANDHAL

(b) Registration NO. : IBM/4355/2011

(c) Category : A Mechanised

(d) Type of Working : Opencast

(e) Postal address

State : ORISSA

District : SUNDARGARH
Village : TANTRA
Taluka : BONAI
Post office : TENSA
Pin Code : 770042

FAX No. : 95-6625-236023

E-mail : trbmine@jindalsteel.net
Phone : 95-6625-236023,236024

(f) Police Station : Lahunipara
(g) First opening date : 17/02/1990

(h) Weekly day of rest : SUN

2. Address for : T.R.B IRON MINES

correspondance PO-TENSA

DIST-SUNDERGARH

3. (a) Lease Number : ORI0652
(b) Lease area : 207.11
(c) Period of lease : 50

(d) Date of Expiry : 24/05/2035

4. Mineral worked : IRON ORE Main

1/22736/2024

5. Name and Address of the

Lessee : m/s Jindal Steel and Power Ltd

TRB Iron Ore Mines At P.O.Tensa SUNDARGARH

ORISSA

Phone: 06625 - 82023, 82024

FAX :

Owner : Jindal steel & power ltd

Barbil KEONJHAR ORISSA

Phone: 06767 30158

FAX :

Agent : SHRI P K PATRA

SUNDARGARH ORISSA

Phone: FAX:

Mining Engineer

Name : B D SAHOO, Full Time Qualification : BE-MINING AND FCC

Appointment/ : 17/09/2014

Termination date

Geologist

Name : R K CHATURVEDI, Full Time
Qualification : M TECH IN APPLIED GEOLOGY

Appointment/ : 17/09/2014

Termination date

Manager

Name : PANCHANAN SINGH
Qualification : BE-MINING AND FCC

Appointment/ : 26/12/2016

Termination date

6. Date of approval of Mining Plan/Scheme of Mining

: Mining Scheme rule 12 MCDR1988 25/08/2000 Renewal under rule 22 MCR1960 09/10/2003 Modif.of approved Mining Plan 19/12/2007 Mining Scheme rule 12 MCDR1988 22/03/2010 FMCP under 23C(1) 29/07/2010 Modif.approved Mining Scheme 11/08/2010 Modif.approved Mining Scheme 23/04/2012 Mining Scheme rule 12 MCDR1988 27/03/2015 MP modif under MCR 1960 27/03/2015 MP review under 17(1) MCR 2016 18/10/2017 MP modif under 17(3) MCR 2016 05/12/2018 MP review under 17(1) MCR 2016 18/11/2019 MP modif under 17(3) MCR 2016 19/04/2022

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	02 nos of boreholes	02 nos of boreholes	The lessee has carried out the exploration as per the proposal during the reporting year.
1b	Exploration over lease area for geological axis 1 or 2	Entire lease area of 207.113 Ha has been explored under G1.	Entire lease area of 207.113 Ha has already been explored under G1.	Entire lease area of 207.113 Ha has already been explored under G1. However the lesses has carried out 02 nos of bore hole (DTH) in FY 2022-23 as per the proposal for deliantion of nature of the ore body further.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	The exploration was carried out in house. Hence separte expenses has not been established.	The exploration was carried out in house. Hence separte expenses has not been established.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	Entire lease area of 207.113 Ha has already been explored under G1.
1e	Balance reserve as on 01/04/20		Mineable Reserve - 11.519 Million Tonnes (as on 01.04.2023)	Mineable Reserve - 11.519 Million Tonnes (as on 01.04.2023) as per AR 2023.
1f	General remarks of inspecting officers on geology, exploration etc		Entire lease area of 207.113 Ha has already been explored under G1. However the lessee has drilled 02 nos of bore hole (DTH) in FY 2022-23 as per the proposal for further deliantion of nature of the ore body.	Entire lease area of 207.113 Ha has already been explored under G1. However the lesses has drilled 02 nos of bore hole (DTH) in FY 2022-23 as per the proposal for further deliantion of nature of the ore body.

D 1		
Dever	opment	

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Patch 1 - N2421032 - N2421724 / E311820 - E312552	Patch 1 - N2421032 - N2421724 / E311820 - E312552	Patch 1 - N2421032 - N2421724 / E311820 - E312552 Carried out inaccordance to the proposal.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	03 benches in Ore. 18 benches in Over Burden	19 benches in Over	02 benches in Ore. 19 benches in Over Burden. were carried out during the reporting year.
2c	Stripping ratio or ore to OB ratio	1:1.232	1:1.241	Much volume of overburden encountered during development, hence stripping ratio is at higher side than the proposal.
2d	Quantity of topsoil generation in m3	Incidental occurence proposed.	16 Cum genereted during the reporting year.	<pre>16 Cum genereted during the reporting year.</pre>
2e	Quantity of overburden generation in m3	3080100 Cum.	3103265.10 Cum generated during the reporting year.	3103265.10 Cum generated during the reporting year.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Generation of waste is higher than the proposal during the reporting year. Accordingly the stripping ratio is at higher side than the proposal.	Generation of waste is higher than the proposal during the reporting year. Accordingly the stripping ratio is at higher side than the proposal.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One, Patch-1	One, Patch-1	One, Patch-1

3b	Quantity of ROM mineral production proposed	2501037 MT	2500000 MT	2500000 MT produced during the reporting year 2022-23.
3c	Recovery of sailable/usable mineral from ROM production	2371477 MT	2370555.76 MT	2370555.76 MT saleable ore produced during the reporting year 2022-23.
3d	Quantity of mineral reject generation	129560 MT	129444.24 MT	129444.24 MT mineral reject produced during the reporting year 2022-23.
3e	Grade of mineral rejects generation and threshold value declared.	>45-<58 % Fe	>45-<58 % Fe	>45-<58 % Fe
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	NA	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	Mechanized
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	9.9m drill holes with 100-105mm dia and blasting by using class - 2 and class - 6 explosives. NONEL system of initiation is used.	9.9m drill holes with 100mm dia and blasting by using class - 2 and class - 6 explosives. NONEL system of initiation is used.	9.9m drill holes with 100mm dia and blasting by using class - 2 and class - 6 explosives. NONEL system of initiation is used.

3k	Provision of mining machineries in mineral benches	Excavator and Dumper combination.	Excavator and Dumper combination.	Excavator and Dumper combination.
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	proposed to keep the bench	Yes. The bench height has been kept upto 9m for both Ore & OB benches.	Yes. The bench height has been kept upto 9m for both Ore & OB benches.
3m	Total area covered under excavation/pits	108.038 На	108.038 Ha	108.038 На
3n	Ore to OB ratio for the pit/mine during the year.	1:1.232	1:1.241	1:1.241
30	Total area put in use under different heads at the end of year	180.99 На	180.99 На	180.99 На
3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 3109302 MT 2017-18 - 3100917 MT 2018-19 - 3100337 MT 2019-20 - 3100644 MT 2020-21 - 3100863 MT 2021-22 - 3100798 MT	2016-17-2722384 MT 2017-18 - 2578777 MT 2018-19 - 2765369 MT 2019-20 - 2575673 MT 2020-21 - 2506870 MT 2021-22 - 2854350 MT	2016-17-2722384 MT 2017-18 - 2578777 MT 2018-19 - 2765369 MT 2019-20 - 2575673 MT 2020-21 - 2506870 MT 2021-22 - 2854350 MT

3q General remarks of inspecting officers on method of mining etc.

The lesee has carreid out the exploitation work within the proposed loaction during the reporting year and almost achieved the proposed target production during the reporting year. However a violation under rule 11(1) has been issued vide letter dated 17.11.2023 to the lessee for irregular bench parameter and wash rule 11(1) has out and merged benches in the proposed Patch-1 quarry.

The lesee has carreid out the exploitation work within the proposed loaction during the reporting year and almost achieved the proposed target production during the reporting year. However a violation under been issued vide letter dated 17.11.2023 to the lessee for irregular bench parameter and wash out and merged benches in the proposed Patch-1 quarry.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	dumping for topsoil, OB &	Separate dumping for topsoil, OB & mineral reject were carried out during the reporting year.	Separate dumping for topsoil, OB & mineral reject were carried out during the reporting year.

4b	Location of topsoil, OB and mineral reject dumps	OB Dump N2421760/ E311314 N2422025/ E311759 N2421940/ E312317 N2421398/ E311709 Top Soil E/W - 311836 - 311875E N/S - 2422025 - 2422035N MR/Subgrade Dump - E/W - 311957 - 312108E N/S - 2422023N	OB Dump N2421760/E311314 N2422025/E311759 N2421940/E312317 N2421398/E311709 Top Soil E/W - 311836 - 311872E N/S 2422025 - 2422032N MR/Subgrade Dump - E/W - 311957 - 312108E N/S - 2421960 - 2422023N	Carried out as per the proposal during the reporting year.
4c	Number of dumps within lease area and outside of lease area	Within Lease Area - 01 Outside Lease Area - Nil	Within Lease Area - 01 Outside Lease Area - Nil	Within Lease Area - 01 Outside Lease Area - Nil
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	All proposals are beyond UPL.	All waste dumps are carried out outside UPL during the reporing year.	All waste dumps are carried out outside UPL during the reporing year.
4e	Number of active and alive dumps.	One	One	One
4f	Number of dead dumps.	Nil	Nil	Nil
4g	Number of dumps established.	Nil	Nil	Phase wise carried out in one dump but completely not carried out.
4h	Whether Retaining wall or garland drain all along dumps are there.	- Heightening of existing retaining wall of 245m	Retaining Wall - Heightening of existing retaining wall of 245m Garland Drain - 150m were carried out during the reporting year.	Retaining Wall - Heightening of existing retaining wall of 245m Garland Drain - 150m were carried out during the reporting year.

4i	Length of Retaining wall or garland drain all along dumps	 Heightening of existing retaining wall of 245m 	Retaining Wall - Heightening of existing retaining wall of 245m Garland Drain - 150m were carried out during the reporting year.	Retaining Wall - Heightening of existing retaining wall of 245m Garland Drain - 150m were carried out during the reporting year.
4j	Number of settling ponds	Nil	Maintenance and desilting of 03 nos of settling pond during the reporting year.	Maintenance and desilting of 03 nos of settling pond during the reporting year.
4k	Specific comments of inspecting officer on waste dump management		Waste dunps are carried out as per the proposal during the reporting year. Phase wise carried out in one dump but completely not carried out. Retaining wall and garland drains are constructed as per proposal during the reporting year.	Waste dunps are carried out as per the proposal during the reporting year. Phase wise carried out in one dump but completely not carried out. Retaining wall and garland drains are constructed as per proposal during the reporting year.

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.	backfilling of 3.30 Ha in	After full extraction of mineral from 3.30 Ha of mined out area started backfilling in Patch-2 quarry area and completed in the reporting year.	After full extraction of mineral from 3.30 Ha of mined out area started backfilling in Patch-2 quarry area and completed in the reporting year.

5b	Area under backfilling of mined out area	3.30 Ha in	After full extraction of mineral from 3.30 Ha of mined out area started backfilling in Patch-2 quarry area and completed in the reporting year.	After full extraction of mineral from 3.30 Ha of mined out area started backfilling in Patch-2 quarry area and completed in the reporting year.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	Nil for the reporting year.
5d	Total area fully reclaimed and rehabilitated	3.30 Ha in	After full extraction of mineral from 3.30 Ha of mined out area started backfilling in Patch-2 quarry area and completed in the reporting year.	After full extraction of mineral from 3.30 Ha of mined out area started backfilling in Patch-2 quarry area and completed in the reporting year.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		After full extraction of mineral from 3.30 Ha of mined out area started backfilling in Patch-2 quarry area and completed in the reporting year and tops oil generation and its concurrent utalisation is nil during the reporting year.	After full extraction of mineral from 3.30 Ha of mined out area started backfilling in Patch-2 quarry area and completed in the reporting year and tops oil generation and its concurrent utalisation is nil during the reporting year.

Actual work

Remarks

Progressive Mine Clousre Plan:

Propasals

Sl.No.

Item

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.	Annual Report on PMCP for 2022-23 has been submitted on 06.06.2023.	Annual Report on PMCP for 2022-23 has been submitted on 06.06.2023.
6b	Area available for rehabilitation (ha).	Nil	Nil	Nil
6c	afforestation done (ha).	1.5 Ha with 3000 nos of sapplings.	2.0 Ha with 3234 nos of sapplings have been planted during the reporting year.	2.0 Ha with 3234 nos of sapplings have been planted during the reporting year.
6d	No. of saplings planted during the year	1.5 Ha with 3000 nos of sapplings.	2.0 Ha with 3234 nos of sapplings have been planted during the reporting year.	2.0 Ha with 3234 nos of sapplings have been planted during the reporting year.
6e	Cumulative no .of plants		a) 213479 in Greenbelt, Lease Boundary (Safety Zone), Colony b) 44668 in Dump Management c) 78454 in Backfilled Area	a) 213479 in Greenbelt, Lease Boundary (Safety Zone), Colony b) 44668 in Dump Management c) 78454 in Backfilled Area
6f	Any other method of rehabilitation	Nil	Nil	Nil
6g	Cost incurred on watch and care during the year	Nil	Rs. 4.59 Lakhs during the reporting year.	Rs. 4.59 Lakhs during the reporting year.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	3.2936 На	3.30 Ha, 3854704.09 MT of waste used in back filling during the reporting year.	3.30 Ha, 3854704.09 MT of waste used in back filling during the reporting year.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Nil	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	Nil
61	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	1.5 Ha with 3000 nos of sapplings.	2.0 Ha with 3234 nos of sapplings have been planted during the reporting year.	2.0 Ha with 3234 nos of sapplings have been planted during the reporting year.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	1.5 Ha with 3000 nos of sapplings.	2.0 Ha with 3234 nos of sapplings have been planted during the reporting year.	2.0 Ha with 3234 nos of sapplings have been planted during the reporting year.
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Afforestation.	Afforestation.	Afforestation.

6p	Compliance of environmental monitoring (core zone and buffer zone)	Water quality	Air, Noise and Water quality monitoring is being carried out as per the proposal during the reporting year.	Air, Noise and Water quality monitoring is being 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 reclamation, rehabilitation, afforestation and environmental monitoring as per the proposal during the reporting year.	The lessee has carried out reclamation, rehabilitation, afforestation and environmental monitoring as per the proposal during the reporting year.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area		Saleable Ore:+58 % Fe, Mineral Reject:- +45 to 58% Fe are being carrie out.	Fe, Mineral
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	Mechanical
7c	Different grade of mineral sorted out at mines.	Ore:+58 % Fe,	Saleable Ore: +58 % Fe, Mineral Reject: - +45 to 58% Fe are being carrie out.	Fe, Mineral
7d	Any beneficiation process at mines	Nil	Nil	No such proposal during the reporting year.

7e General remarks Saleable Ore:+58 % Fe, Saleable Ore:+58 % of inspecting Mineral Reject:- +45 to Fe, Mineral Saleable Ore:+58 % Fe stocks are being Reject:- +45 to				
Mineral praticed. Further no 58% Fe stocks are conservation and beneficiation process being praticed. beneficiation was proposed. Only Further no issues crushing and screening are being carried out process was during the reporting proposed. Only year. crushing and screening are being carried out during the reporting year.	7e	of inspecting officer on Mineral conservation and beneficiation	Mineral Reject:- +45 to 58% Fe stocks are being praticed. Further no beneficiation process was proposed. Only crushing and screening are being carried out during the reporting	Fe, Mineral Reject:- +45 to 58% Fe stocks are being praticed. Further no beneficiation process was proposed. Only crushing and screening are being carried out during the

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	incidental	16 Cum top soil generated during the reporting year 2022-23.	16 Cum top soil generated during the reporting year 2022-23.
8b	Concurrent use or storage of topsoil	Proposal of incidental occurence and subsequent utalization was proposed.	16 Cum top soil generated during the reporting year 2022-23.	16 Cum top soil generated during the reporting year 2022-23.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed.	Carried out.	Carried out.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	Nil during the reporting year.

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed.	About 3854704.09 tons of waste used in back filling during the reporting year 2022-23.	About 3854704.09 tons of waste used in back filling during the reporting year 2022-23.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	3000 in Safety Zone, Green Belt, Colony, Office Premises	i) 3234 Gap Plantation at Safety Zone.ii) 11395 in Dump Managementiii) 5551 in Backfilled Area	 i) 3234 Gap Plantation at Safety Zone. ii) 11395 in Dump Management iii) 5551 in Backfilled Area planted during the reporting year 2022-23.
8g	Survival rate	Nil	80%	80% survival rate
8h	Water sprinkling on roads to control airborne dust	sprinkling by	Water sprinkling by permanent water sprinkler and water tanker over haul roads has been carried out during the reporting year to control the air borne dust particles.	Water sprinkling by permanent water sprinkler and water tanker over haul roads has been carried out during the reporting year to control the air borne dust particles.

8i General remarks
of inspecting
officer on
aesthetic beauty
in and around
mines area

Lessee has planted i) 3234 Gap Plantation at Safety Zone. ii) 11395 in Dump Management iii) 5551 in Backfilled Area of saplings within the lease area and water sprinkling by water tanker over haul roads. Stationary sprinkler system has been fixed along the haul roads to control the airborne dust and to minimize the fugutive dust emmision. This sustains the asthetic beauty of the mine area.

Lessee has planted i) 3234 Gap Plantation at Safety Zone. ii) 11395 in Dump Management iii) 5551 in Backfilled Area of saplings within the lease area and water sprinkling by water tanker over haul roads. Stationary sprinkler system has been fixed along the haul roads to control the airborne dust and 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 and annual return for the reporting year have been submitted within the stipulated time period.	Monthly returns and annual return for the reporting year have been submitted within the stipulated time period.	Monthly returns and annual return for the reporting year have been submitted within the stipulated time period.

9b Scrutiny of Annual return for information Engineer on Mining Engineer, Geologist and

Manager

Shri U. P. Naik, Mining Engineering, SCC), appointed as full time mining engineer on 20.11.2021. Geologist Science), appointed as full time geologist on 15.03.2023 Shri A. Samal Mining Engineer (BE-Mining, FCC) appointed as mines manager on 20.11.2021.

Shri U. P. Naik, Mining Engineer (B.Tech.Mining Engineering, SCC), (B.Tech.Mining appointed as full time mining engineer on 20.11.2021. Shri S. Kumar, Geologist (M.Sc in Earth Science), appointed as full time geologist on 15.03.2023 Shri A. Samal Mining Shri S. Kumar, Engineer (BE-Mining, FCC) appointed as mines (M.Sc in Earth manager on 20.11.2021.

> were present during the mine inspection

Shri U. P. Naik, Mining Engineer (B.Tech.Mining Engineering, SCC), appointed as full time mining engineer on 20.11.2021. Shri S. Kumar, Geologist (M.Sc in Earth Science), appointed as full time geologist on 15.03.2023 Shri A. Samal Mining Engineer (BE-Mining, FCC) appointed as mines manager on 20.11.2021.

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were present during the mine inspection

9с Scrutiny of for area under

- i) Already Open cast area, dumps etc. 21.814 Ha. (Reclaimed &
 - Ha.).
 - (ii) Covered - 86.224 Ha.

 - by plant, buildings, welfare buildings & roads - 26.204 Ha.
 - (v) Other Purpose (Mineral Storage, Top Soil, Tailing Pond, Green Belt, Safety Zone) - 43.638 Ha.

- i) Already exploited & Annual return on exploited & abandoned by Open cast land use pattern abandoned by (O/C) mining - 21.814 Ha. (Reclaimed & pits, reclaimed (O/C) mining - Rehabilitated - 16.20
 - Rehabilitated (ii) Covered under - 16.20 Ha.). current (O/C) Workings -86.224 Ha.
 - under current (iii) Used for waste (O/C) Workings disposal - 29.233 Ha.
 - (iv) Occupied by plant, (iii) Used for buildings, residential, waste disposal welfare buildings & - 29.233 Ha. roads - 26.204 Ha.
 - (iv) Occupied (v) Other Purpose (Mineral Storage, Top Soil, Tailing Pond, residential, Green Belt, Safety Zone) - 43.638 Ha.

- i) Already exploited & abandoned by Open cast (O/C) mining - 21.814 Ha. (Reclaimed & Rehabilitated -16.20 Ha.).
- (ii) Covered under current (O/C) Workings - 86.224 Ha.
- (iii) Used for waste disposal -29.233 Ha.
- (iv) Occupied by plant, buildings, residential, welfare buildings & roads - 26.204 Ha.
- (v) Other Purpose (Mineral Storage, Top Soil, Tailing Pond, Green Belt, Safety Zone) -43.638 Ha.

9d	Scrutiny of Annual return on afforestation	(i) No. of	Within Lease Area (i) No. of trees planted in 2022-23 - 20180 (ii) Survival rate - 80% (iii) Total no. of trees at the end of the year - 16144 Outside Lease Area (i) No. of trees planted in 2022-23 - Nil (ii) Survival rate - Nil (iii) Total no. of trees at the end of the year - Nil	Within Lease Area (i) No. of trees planted in 2022-23 - 20180 (ii) Survival rate - 80% (iii) Total no. of trees at the end of the year - 16144 Outside Lease Area (i) No. of trees planted in 2022-23 - Nil (ii) Survival rate - Nil (iii) Total no. of trees at the end of the year - Nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	129444.24 MT (> 45% to <58% Fe)	129444.24 MT (> 45% to <58% Fe) Stacked within the lease area.	129444.24 MT (> 45% to <58% Fe) Stacked within the lease area.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	40920 tons	Opening stock- 40920 tons Production-2500000 tons Closing stock-40920 tons	Opening stock- 40920 tons Production-2500000 tons Closing stock- 40920 tons
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production: Rs 1523.04/- furnished in Annual return.	Cost of production: Rs 1523.04/- furnished in Annual return.	Cost of production: Rs 1523.04/- furnished in Annual return.

9h	Scrutiny of Annual return on fixed assets	Fixed Asset: Rs. 427278392/-, furnished in annual retun of the reporting year.	Fixed Asset: Rs. 427278392/-, furnished in annual retun of the reporting year.	Fixed Asset: Rs. 427278392/-, furnished in annual retun of the reporting year.
9k	Scrutiny of Annual return on mining machineries	Cum: 1 No Bach Hoe - 2.1 Cum: 2 Nos Bach Hoe - 2.8 Cum: 1 No Bach Hoe - 3.3 Cum: 2 Nos Bach Hoe -0.9 Cum: 2 Nos Dumper- 35 tonne: 2 Nos Dumper- 31 tonne: 18 Nos Dumper- 25 tonne: 24 Nos Dozer- 2 Nos Motor Grader-1 No Explosive van- 1 No	Bach Hoe - 2.8 Cum: 1 No Bach Hoe - 3.3 Cum: 2 Nos Bach Hoe -0.9 Cum: 2 Nos Dumper- 35 tonne: 2 Nos Dumper- 31 tonne: 18 Nos Dumper- 25 tonne: 24 Nos Dozer- 2 Nos Motor Grader-1 No Explosive van- 1 No Tractor- 1 No Crane-:4 Nos Water tanker- 5 Nos Wheel Loader- 5 No Crusher- 250TPH- 1 Nos Screen Plant- 350TPH- 1	Bach Hoe - 1.8 Cum: 1 No Bach Hoe - 2.1 Cum: 2 Nos Bach Hoe - 2.8 Cum: 1 No Bach Hoe - 3.3 Cum: 2 Nos Bach Hoe - 0.9 Cum: 2 Nos Dumper- 35 tonne: 2 Nos Dumper- 31 tonne: 18 Nos Dumper- 25 tonne: 24 Nos Dozer- 2 Nos Motor Grader-1 No Explosive van- 1 No Tractor- 1 No Crane-:4 Nos Water tanker- 5 Nos Wheel Loader- 5 No Crusher- 250TPH- 1 Nos Screen Plant- 350TPH- 1 Nos Drill- 2 Nos Air Compressor- 2 Nos Generator (Diesel)- 8 Nos

1/22736/2024

Details of violations observed during current inspection and compliance position of violation pointed out					
Violation	n observed	Show couse position			
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on		
MCDR17 Rule 11(1)	17/11/2023				

Date:

(SANJIB KUMAR MOHAPATRA)

Indian Bureau of Mines