

**MCDR INSPECTION REPORT***Date of Inspection: 07/11/2024***General**

S. N.	Particulars	Details
1	Name of the Mine	Thakurani Iron Ore Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease area =228.744 Hectares Forest Area= 228.744 Hectares, Non- Forest Area= Nil
3	Minecode	30ORI08121
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/23053/2020
5	Name of the lessee, Address, phone, email and fax number	M/s Arcelor Mittal India Pvt. Ltd Thakurani Iron Ore Mines At- Dalki, Po- Thakurani, P.S- Barbil ,Dist- Keonjhar Odisha ,758035 Email :- Sharanappa.Kambalii@amns.in Phone=9302036382 Fax No-9437962975
6	Village	Dalki
7	Taluka/Mandal	Barbil
8	District	Keonjhar
9	Pincode	758035
10	State	Odisha
11	Post office	Thakurani
12	Nearest police station	Barbil
13	Nearest Railway station	Barbil
14	Date of Grant of Mining Lease	26.06.2020
15	Date of Execution	27.06.2020
16	Date of opening of Mine	01.07.2020
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. Dillip Oommen M/s ArcelorMittal India Pvt.Ltd (Lessee) Office No 126,101-104 GCP Business Centre Opposite Memnagar fire station Vijay Cross Road,Memnagar Ahmedabad, Gujarat Date of Appointment- 27.06.2020
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri Sharanappa Kambalii Sri Promod Kumar Mishra Thakurani Iron Ore Mines

		M/s Arcelor Mittal India Pvt.Ltd At- Dalki, Po- Thakurani, P.S- Barbil,Dist- Keonjhar Odisha ,758035 Mobile No=9437962975
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sri Promod Kumar Mishra Thakurani Iron Ore Mines M/s ArcelorMittal India Pvt.Ltd At- Dalki, Po- Thakurani, P.S- Barbil,Dist- Keonjhar Odisha ,758035 Mobile No=9437962975 Email id :- promod.mishra@arcelormittal.co m Date of Appointment:19.11.2021
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Sujit Kumar Dash B.E Mining Engineering with 14 years of experience Thakurani Iron Ore Mines M/s ArcelorMittal India Pvt.Ltd At- Dalki, Po- Thakurani, P.S- Barbil,Dist- Keonjhar Odisha ,758035 Mobile No=8260872481 Date of Appointment:- 18.05.2020
24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Sushanta Kumar Mahanta M.Sc Geology with 12 years of experience Thakurani Iron Ore Mines M/s ArcelorMittal India Pvt.Ltd At- Dalki, Po- Thakurani, P.S- Barbil ,Dist- Keonjhar Odisha ,758035 Mobile No=9090453527 Date of Appointment:-01.03.2022
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.	Yes, <b><u>Mining Engineer:</u></b> Sri Sujit Kumar Dash B.E Mining Engineering with 14 years of experience Thakurani Iron Ore Mines M/s ArcelorMittal India Pvt.Ltd At- Dalki, Po- Thakurani, P.S- Barbil,Dist- Keonjhar Odisha ,758035 Mobile No=8260872481 Date of Appointment:- 18.05.2020 <b><u>Geologist:</u></b> Sri Sushanta Kumar Mahanta M.Sc Geology with 12 years of

		experience Thakurani Iron Ore Mines M/s ArcelorMittal India Pvt. Ltd At- Dalki, Po- Thakurani, P.S- Barbil ,Dist- Keonjhar Odisha ,758035 Mobile No=9090453527 Date of Appointment:-01.03.2022
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan Approved Letter No MP/A/25-ORI/BHU/2020-21 dated 19.11.2020 (Plan period 2020-21 to 2024-25). Specification Condition- Nil Modification of Mining Plan letter No MCDR-MiFLOFE/7/2023-BBS-IBM_RO_BBS dated 17.08.2023.
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
28	Mineral(s) granted in lease and proved for mining	Iron Ore
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
31	Captive/Non Captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

### Exploration

S.N.	Item	Proposals for,203-24	Actual work during 2023-24	Remark
1a	Backlog of previous year	16 no of boreholes	20 no of boreholes	
1b	Exploration over lease area for Geological axis 1 or 2.	16 no of boreholes	20 no of boreholes for g1 level of exploration.	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	M/s. Mining Associate Pvt. Ltd.	M/s. Mining Associate Pvt. Ltd. 20 no of hole carried out and Rs. 269 lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	77.89	77.89 Ha area has been explored and converted to g1 level of exploration during the current FY year i.e. 2024-25 , prior	The area has been explored 77.89 Ha area by 67 no boreholes during the current FY i.e.

			to the mine inspection.	2024-25 , prior to the mine inspection and entire potential mineralized area within the lease area has been explored under G1 level of exploration.
1e	Balance reserves as per latest approved document		117.271 MillionTonne	Reserve as on 01.04.2024
1f	General remarks of inspecting officer on geology, exploration etc.	The lessee has carried out 20 no of boreholes against a proposal of 16 no of bore hole during the reporting year Fy 2023-24. The lessee has an expenditure of Rs. 269 lakhs for exploration and exploration was carried out by M/s. Mining Associate Pvt. Ltd. Further, the area has been explored 77.89 Ha area by 67 no boreholes during the current FY i.e. 2024-25, prior to the mine inspection and entire potential mineralized area within the lease area has been explored under G1 level of exploration. As per submitted AR of 2023-24 about 117.271 million tons iron ore reserve available in the mine.		

### Development

S.N.	Item	Proposals for, 2023-24	Actual work during2023-24	Remark
2a	Location of development w.r.t. lease area	<b>Quarry-1:</b> 22°7'12.8''N- 22°6'43.4''N to 85°25'44.9''E- 85°26'20.5''E <b>Quarry-2:</b> 22°6'16.7''N- 22°6'42.3''N to 85°25'32.7''E- 85°26''12.1''E	<b>Quarry-1:</b> 22°6'34''N- 22°7'3.8'' N to 85°26'13.5''E- 85°25'57.7''E <b>Quarry-2:</b> 22°6'16.7''N- 22°6'42.3''N to 85°25'32.7''E – 85°26''12.1''E	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Nil	Nil	
2c	Stripping ratio or ore to OB ratio	1: 0.5m <sup>3</sup> /Ton	1:0.18m <sup>3</sup> /Ton	
2d	Quantity of topsoil generation in m3	19800	5294	Due to unavailability of forest permission top development is not being done. Hence generation

				of top soil is less.
2e	Quantity of overburden generation in m3	2789911	979925	Due to unavailability of forest permission top development is not being done. Hence generation of waste is less than the proposal.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc	The lessee has partially deviated the production and development work against the approved proposal during the reporting year and the lessee could not achieve the targeted proposal during the reporting year due to non-obtaining of forest tree felling permission during the reporting year. However, a violation letter under rule 11(1) of MCDR 2017 has been issued vide dated 28.11.2024 to the lessee in this regard.		

### Exploitation

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
3a	Number of pits proposed for production	2	2	
3b	Quantity of ROM mineral production proposed	5500000 tons	5426295 tons	
3c	Recovery of salable/usable mineral from ROM production	4599856 tons	4451860 tons	
3d	Quantity of mineral reject generation	900144 tons	974435 tons	
3e	Grade of mineral reject generation and threshold value declared	Mineral reject is 45-55% Fe & threshold value is 45% of Fe content.	Mineral reject is 45-55% Fe & threshold value is 45% of Fe content.	
3f	Quantity of sub-grade mineral generation	NA	NA	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	No such analysis or beneficiation study carried out for sub-grade mineral during the reporting year.	

3j	Provision of drilling & blasting in mineral benches	Deep Holes drilling was proposed keeping depth 11m, spacing up to 3.5m, burden 3m & blasting was proposed and few rock breakers will be used for hard Ore breaking.	Nonel type detonator is used in the hole of depth 11m with spacing 3.5m and burden 3m for blasting to control noise and for better fragmentation. The rock breakers are being used for boulder breaking.	
3k	Provision of mining machineries in mineral benches	Deployment of mining machinery is proposed in mineral benches by Shovel Dumper Combination ROM will be excavated and loaded in the 50T/40T dumper by 4.1 m <sup>3</sup> , 3.1 m <sup>3</sup> & 2.5 m <sup>3</sup> excavators.	Deployment of mining machinery is proposed in mineral benches by Shovel Dumper Combination ROM will be excavated and loaded in the 50T/40T dumper by 4.1 m <sup>3</sup> , 3.1 m <sup>3</sup> & 2.5 m <sup>3</sup> excavators.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, it is proposed to keep the bench height up to 10 mtr for both Ore & OB benches.	Height and width of benches were more or less in order as per the proposal of the approved document.	
3m	Total area covered under excavation/pits	99.60 Ha.	92.730 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1: 0.5m <sup>3</sup> /Ton	1:0.18m <sup>3</sup> /Ton	

3o	Total area put in use under different heads at the end of year	Area Excavated = 99.6 Waste dump = 26.76 Mineral Storage = 21.17 Infrastructure (Occupied by plants buildings & roads) = 5.10 Other = 0.91	Area under Mining = 92.730 Overburden/ Waste dumping = 14.530 Mineral Storage = 9.140 Infrastructure (Occupied by plants buildings & roads) = 4.130 Reclaimed = 3.700 Other = 0.91	
3p	Production of ROM mineral during last five-year period, as applicable	2020-21 - 5500000MT 2021-22 - 5500000MT 2022-23 - 7999000MT 2023-24 - 5500000MT	2020-21 - 4124810MT 2021-22 - 5499765MT 2022-23 - 4764600MT 2023-24 - 5426295M.T	
3q	General remarks of inspecting officer on method of	The lessee has partially deviated the production and development work against the approved proposal during the reporting year and the lessee could not achieve the targeted proposal during the reporting year due to non-obtaining of forest tree felling permission during the reporting year. However, a violation letter under rule 11(1) of MCDR 2017 has been issued vide dated 28.11.2024 to the lessee in this regard.		

### Solid Waste Management-Dumping

S.N.	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
4a	Separate dumping of topsoil, OB & mineral reject (Rule 33, 37)	Separate dumping of topsoil, OB & mineral reject has been proposed	As per the proposal, separate dumping of topsoil, OB & mineral reject has been carried out	
4b	Location of topsoil, OB & mineral reject dumps	Dump No.-5 22°07'06.20''N - 22°07'14.70''N 85°25'54.90''E - 85°26'03.80''E	Dump No-5 22°07'06.4''N- 22°07'10.50''N 85°25'55.1''E- 85°26'03.50''E Dump No-6	Due to unavailability of forest permission Dump-6 could not be constructed and additionally 2 no of temporary waste dumps were

		Dump No.-6 22°07'33.20''N - 22°07'41.10''N 85°26'08.70''E - 85°26'30.80''E Mineral Reject 2446573- 2446841N 338946- 339133E	NIL  Mineral Reject 2446580- 2446760N 338953-339058E	generated during the reporting year.
4c	Number of dumps within lease area and outside lease area	Within lease 2023-24: OB Dump: 3nos Subgrade/MR stack: 1no	Within lease 2023-24: OB Dump:3nos Subgrade/MRstack:1no Temporary waste dump-2 nos.	Due to unavailability of forest permission Dump-6 could not be constructed and additionally 2 no of temporary waste dumps were generated during the reporting year.
4d	Location of dumps w.r.t. ultimate pit limit	Dump No.-5 22°07'06.20''N - 22°07'14.70''N 85°25'54.90''E - 85°26'03.80''E Dump No.-6 22°07'33.20''N - 22°07'41.10''N 85°26'08.70''E - 85°26'30.80''E	Dump No-5 22°07'06.4''N- 22°07'10.50''N 85°25'55.1''E- 85°26'03.50''E Dump No-6 NIL	Due to unavailability of forest permission Dump-6 could not be constructed and additionally 2 no of temporary waste dumps were generated during the reporting year.
4e	Number of active & alive dumps	1	1	
4f	Number of dead dumps	2	2	
4g	Number of dumps stabilized	2	2	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes, proposal for about 1462	Yes, only 264 of retaining wall and	Due to unavailability of



		mtr construction new Retaining wall and 1162 mtr garland during the reporting year FY 2023-24.	garland drains have been constructed during the reporting year at the bottom most of the dumping area of Dump-5.	forest permission Dump-6 could not be constructed. Hence proposal for retaining wall and garland drains could not be achieved during the reporting year.
4i	Length of Retaining wall or garland drain all along dump	Yes, proposal for about 1462 mtr construction new Retaining wall and 1162 mtr garland during the reporting year FY 2023-24.	Yes, only 264 of retaining wall and garland drains have been constructed during the reporting year at the bottom most of the dumping area of Dump-5.	Due to unavailability of forest permission Dump-6 could not be constructed. Hence proposal for retaining wall and garland drains could not be achieved during the reporting year.
4j	Number of settling ponds	01	01	At Dump no-5
4k	Specific comments of inspecting officer on waste dump management	The lessee has partially deviated the production and development work against the approved proposal during the reporting year and the lessee could not achieve the targeted proposal during the reporting year due to non-obtaining of forest tree felling permission during the reporting year. However, a violation letter under rule 11(1) of MCDR 2017 has been issued vide dated 28.11.2024 to the lessee in this regard. Due to unavailability of forest permission Dump-6 could not be constructed. Hence proposal for retaining wall and garland drains could not be achieved during the reporting year. Only 264 of retaining wall and garland drains have been constructed during the reporting year at the bottom most of the dumping area of Dump-5.		

### Solid Waste Management-Backfilling

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Proposal for backfilling of 370082 cum of waste over 2.84 Ha. from 590 mRL to 620mRL of already	Backfilling of about 370082 cum of waste over 2.84 Ha. from 590 mRL to 620mRL of already exhausted area (Pit-2) within the lease area has	

		exhausted area (Pit-2) within the lease area.	been carried out.	
5b	Area under backfilling of mined out area	Proposal for backfilling of 370082 cum of waste over 2.84 Ha. from 590 mRL to 620mRL of already exhausted area (Pit-2) within the lease area.	Backfilling of about 370082 cum of waste over 2.84 Ha. from 590 mRL to 620mRL of already exhausted area (Pit-2) within the lease area has been carried out.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	The lessee has partially deviated the production and development work against the approved proposal during the reporting year and the lessee could not achieve the targeted proposal during the reporting year due to non-obtaining of forest tree felling permission during the reporting year. However, a violation letter under rule 11(1) of MCDR 2017 has been issued vide dated 28.11.2024 to the lessee in this regard. However, the lessee has carried out backfilling of 370082 cum of waste over 2.84 Ha. of already exhausted area (Pit-2) within the lease area.		

### Progressive Mine Closure Plan

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	As per Rule 26(2) Annual PMCP report to be submitted before 1st day of July of Every Year.	The lessee has submitted Annual PMCP report as per Rule 26(2) of MCDR 2017 within the stipulated period during the reporting year FY 2023-24.	
6b	Management of worked/mined out benches i) Area available for	i. 2.84 Ha. & 370082 cum	i. 2.84 Ha. & 370082 cum	

	rehabilitation (ha) ii) Afforestation done (ha)  iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	ii. Nil  iii. Nil  iv. Nil  v. Nil  vi. Nil	ii. Nil  iii. Nil  iv. Nil  v. Nil  vi. Nil	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	i. Nil.  ii. Nil  iii. Nil  iv. Nil  v. Nil	i. Nil  ii. Nil  iii. Nil  iv. Nil  v. Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) 2000 nos of saplings ii) Area: 1.25 Ha.  iii) Plantation with 70 % survival	i) 4500 nos of saplings during reporting year and cumulatively 29750 saplings ii) Area: 2.15 Ha. iii) Plantation with 75 % survival	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Ambient Air Quality, Water Quality, Soil Quality, Water Level Monitoring has been proposed both in core zone & buffer zone. Noise Level Study, Ground vibration, Fugitive dust Monitoring has been proposed in core zone	Environmental monitoring in Core zone and buffer zone were carried out as per MOEFCC and SPCB guidelines during the reporting year FY 2023-24.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The lessee has partially deviated the production and development work against the approved proposal during the reporting year and the lessee could not achieve the targeted proposal during the reporting year due to non-		

		obtaining of forest tree felling permission during the reporting year. However, a violation letter under rule 11(1) of MCDR 2017 has been issued vide dated 28.11.2024 to the lessee in this regard. The lessee has carried out backfilling of 370082 cum of waste over 2.84 Ha. of already exhausted area (Pit-2) within the lease area. The lessee has carried out afforestation and environmental monitoring as per the proposal during the reporting year. The lessee has carried out plantation of 4500 nos of saplings over 2.15 Ha. @ 75% of survival rate during the reporting year FY 2023-24 and cumulatively 29750 saplings planted till the reporting year. PMCP proposals carried out by the lessee are more or less in order w.r.o. the proposals.
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### Mineral Conservation

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting for +55% Fe and 45 to 55% Fe has been proposed.	Grade-wise sorting for +55% Fe and 45 to 55% Fe has been carried out as per the proposal	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	Grade-wise sorting for +55% Fe and 45 to 55% Fe has been proposed.	Grade-wise sorting for +55% Fe and 45 to 55% Fe has been carried out as per the proposal	
7d	Any beneficiation process at mines	Dry beneficiation by using crusher and screen plant	Ore processing by Crushing & screening plants. 5 nos of Screen plant & 1 Crushing unit are in working condition during the reporting year.	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Saleable Ore: +55 % Fe, Mineral Reject: - +45 to 55% Fe stocks are being practiced. Further no beneficiation process was proposed. Only crushing and screening are being carried out during the reporting year. 5 nos of Screen plant & 1 Crushing unit are in working condition during the reporting year.		

## Environment

S.N.	Item	Proposals for, 2023-24	Actual work during 2023-24	Remark
8a	Separate removal and utilization of topsoil (Rule 36)	There is a proposal of generation of 19800 cum of topsoil during the FY 2023-24.	Only 5294 cum of top soil has been generated during the reporting year FY 2023-24.	Due to unavailability of forest permission top development is not being done. Hence generation of top soil is less.
8b	Concurrent use or storage of topsoil	There is a proposal of generation of 19800 cum of topsoil during the FY 2023-24. Concurrent use or storage of topsoil has been proposed.	Only 5294 cum of top soil has been generated during the reporting year FY 2023-24. Concurrent use and storage of topsoil has been carried out.	Due to unavailability of forest permission top development is not being done. Hence generation of top soil is less.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Separate dumps for overburden, waste rock, rejects and fines has been proposed	Separate dumps for overburden, waste rock, rejects and fines has been carried out .	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	During course of mining generated overburden /waste, etc. rock will be backfilled over exhausted pits over 2.84 Ha. area with 370082 cum of waste was proposed.	During the reporting year, generated overburden /waste, etc. rock has been backfilled over 2.84 Ha. area with 370082 cum of waste in exhausted pits during the reporting year.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	During course of mining generated overburden /waste, etc. rock will be backfilled over exhausted pits over 2.84 Ha. area with 370082 cum	During the reporting year, generated overburden /waste, etc. rock has been backfilled over 2.84 Ha. area with 370082 cum	

		of waste was proposed.	of waste in exhausted pits during the reporting year.	
8f	Baseline information on existence of plantation & additional Plantation done	About 2000 nos of saplings over 1.25 Ha. area were proposed to be planted @ with 70% survival rate.	About 14500 no of saplings over 2.15 Ha. with a survival rate of 75% & cumulatively 29750 saplings were planted within the lease area during FY 2023-24.	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling by water tanker over haul roads has been carried out during the reporting year.	Water sprinkling by water tanker and mobile water sprinklers over haul roads has been carried out by using water tankers and fixed water sprinkler system during the reporting year.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	<p>The lessee has partially deviated the production and development work against the approved proposal during the reporting year and the lessee could not achieve the targeted proposal during the reporting year due to non-obtaining of forest tree felling permission during the reporting year. However, a violation letter under rule 11(1) of MCDR 2017 has been issued vide dated 28.11.2024 to the lessee in this regard. The lessee has carried out backfilling of 370082 cum of waste over 2.84 Ha. of already exhausted area (Pit-2) within the lease area. The lessee has carried out afforestation and environmental monitoring as per the proposal during the reporting year. The lessee has carried out plantation of 4500 nos of saplings over 2.15 Ha. @ 75% of survival rate during the reporting year FY 2023-24 and cumulatively 29750 saplings planted till the reporting year. PMCP proposals carried out by the lessee are more or less in order w.r.o. the proposals. Water sprinkling by fixed water sprinkler system, water tanker and mobile water sprinklers over haul roads to control the airborne dust and to minimize the fugitive dust emission. This sustains the aesthetic</p>		

		beauty of the mine area.
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### Compliance of Rule 45

S.N.	Item	Comments		Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up-to: Septembert 2024 A.R. Submitted up-to: FY 2023-24 Monthly returns and annual return for the reporting year have been submitted within the stipulated time period.		
S.N.	Item	Details given in A.R. for the year 2023-24	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	1. Sri Promod Kumar Mishra - Mines Manager 2. Sri Sujit Kumar Dash - Mining Engineer 3. Sri Sushanta Kumar Mahanta - Geologist. Both Mining Engineer & Geologist were present during the inspection.	1. Sri Promod Kumar Mishra - Mines Manager 2. Sri Sujit Kumar Dash - Mining Engineer 3. Sri Sushanta Kumar Mahanta - Geologist. Both 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.	Area under Mining: 92.730 Overburden/ Waste dumping: 14.530 Mineral Storage: 9.140 Infrastructure (Occupied by plants buildings & roads: 4.130 Reclaimed : 3.700	Area under Mining: 92.730 Overburden/ Waste dumping: 14.530 Mineral Storage: 9.140 Infrastructure (Occupied by plants buildings & roads: 4.130 Reclaimed : 3.700	
9d	Scrutiny of Annual return on afforestation	About 14500 no of saplings over 2.15 Ha. with a survival rate of 75% & cumulatively 29750 sapplings were planted within the lease area during FY 2023-24.	About 14500 no of saplings over 2.15 Ha. with a survival rate of 75% & cumulatively 29750 sapplings were planted within the lease area during FY 2023-24.	

9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	974435.000 tons of mineral reject of +45 to 55% Fe were generated during FY 2023-24.	547527.510 tons of mineral reject of +45 to 55 % Fe were generated during FY 2023-24.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	<u>Iron Ore:</u> Opening Stock: 682379.350 tons Production: 5426295.000 tons Closing Stock : 1495971.490	<u>Iron Ore:</u> Opening Stock: 682379.350 tons Production: 5426295.000 tons Closing Stock : 1495971.490	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production Rs. 6012.10/- furnished in submitted Annul Return for FY 2023-24.	Cost of production Rs. 6012.10/- furnished in submitted Annul Return for FY 2023-24.	
9i	Scrutiny of Annual return on fixed assets	Fixed Asset: Rs.1387370107/-, furnished in the annual return of the reporting year.	Fixed Asset: Rs.1387370107/-, furnished in the annual return of the reporting year.	
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) 4.500 CUM 1 Non Electrical Opencast SHOVEL (HYDRAULIC) 3.100 CUM 4 Non Electrical Opencast SHOVEL (HYDRAULIC) 2.100 CUM 6 Non Electrical Opencast SHOVEL (HYDRAULIC) 0.650 CUM 3 Non Electrical Opencast SHOVEL (HYDRAULIC) 1.600 CUM 2 Non Electrical Opencast SHOVEL (HYDRAULIC) 2.600 CUM 1 Non Electrical Opencast SHOVEL (HYDRAULIC)	SHOVEL (HYDRAULIC) 4.500 CUM 1 Non Electrical Opencast SHOVEL (HYDRAULIC) 3.100 CUM 4 Non Electrical Opencast SHOVEL (HYDRAULIC) 2.100 CUM 6 Non Electrical Opencast SHOVEL (HYDRAULIC) 0.650 CUM 3 Non Electrical Opencast SHOVEL (HYDRAULIC) 1.600 CUM 2 Non Electrical Opencast SHOVEL (HYDRAULIC) 2.600 CUM 1 Non Electrical Opencast SHOVEL (HYDRAULIC)	



	<p>0.900 CUM 2 Non Electrical Opencast FRONT END LOADER 3.200 CUM 2 Non Electrical Opencast FRONT END LOADER 2.500 CUM 5 Non Electrical Opencast DOZER 360.000 HP 1 Non Electrical Opencast DOZER 354.000 HP 1 Non Electrical Opencast MOTOR GRADER 145.000 HP 1 Non Electrical Opencast ROCK DRILL (NON-ELEC.) 105.000 MM 3 Non Electrical Opencast DUMPER 60.000 TONNE 4 Non Electrical Opencast WATER TANKER 16000.000 LITRE 1 Non Electrical Opencast WATER TANKER 12000.000 LITRE 1 Non Electrical Opencast WATER TANKER 8000.000 LITRE 4 Non Electrical Opencast WATER TANKER 4000.000 LITRE 1 Non Electrical Opencast CRANE 23.000 TONNE 1 Non Electrical Opencast AIR COMPRESSOR 0.580 CUM/MN 2</p>	<p>(HYDRAULIC) 2.600 CUM 1 Non Electrical Opencast SHOVEL (HYDRAULIC) 0.900 CUM 2 Non Electrical Opencast FRONT END LOADER 3.200 CUM 2 Non Electrical Opencast FRONT END LOADER 2.500 CUM 5 Non Electrical Opencast DOZER 360.000 HP 1 Non Electrical Opencast DOZER 354.000 HP 1 Non Electrical Opencast DOZER 354.000 HP 1 Non Electrical Opencast DOZER 354.000 HP 1 Non Electrical Opencast MOTOR GRADER 145.000 HP 1 Non Electrical Opencast ROCK DRILL (NON-ELEC.) 105.000 MM 3 Non Electrical Opencast DUMPER 60.000 TONNE 4 Non Electrical Opencast WATER TANKER 16000.000 LITRE 1 Non Electrical Opencast WATER TANKER 12000.000 LITRE 1 Non Electrical</p>	
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		<p>Electrical Opencast TIPPER 20.300 CUM 6 Non Electrical Opencast TIPPER 19.500 CUM 4 Non Electrical Opencast TIPPER 18.700 CUM 21 Non Electrical Opencast GENERATOR (DIESEL) 66.000 KWH 1 Electrical Opencast GENERATOR (DIESEL) 100.000 KWH 1 Electrical Opencast GENERATOR (DIESEL) 400.000 KWH 2 Electrical Opencast GENERATOR (DIESEL) 880.000 KWH 1 Electrical Opencast CRUSHER 300.000 T/H 1 Electrical Opencast FRONT END LOADER 4.200 CUM 2 Non Electrical Opencast OTHERS (ELEC.) 300.000 4 Electrical Opencast OTHERS (NON- ELEC.) 300.000 1 Non Electrical Opencast</p>	<p>Opencast WATER TANKER 8000.000 LITRE 4 Non Electrical Opencast WATER TANKER 4000.000 LITRE 1 Non Electrical Opencast CRANE 23.000 TONNE 1 Non Electrical Opencast AIR COMPRESSOR 0.580 CUM/MN 2 Electrical Opencast TIPPER 20.300 CUM 6 Non Electrical Opencast TIPPER 19.500 CUM 4 Non Electrical Opencast TIPPER 18.700 CUM 21 Non Electrical Opencast GENERATOR (DIESEL) 66.000 KWH 1 Electrical Opencast GENERATOR (DIESEL) 100.000 KWH 1 Electrical Opencast GENERATOR (DIESEL) 400.000 KWH 2 Electrical Opencast GENERATOR (DIESEL) 880.000 KWH 1 Electrical Opencast CRUSHER 300.000 T/H 1</p>	
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			Electrical Opencast FRONT      END LOADER   4.200 CUM    2    Non Electrical Opencast OTHERS (ELEC.) 300.000           4 Electrical Opencast OTHERS (NON- ELEC.) 300.000 1 Non      Electrical Opencast	
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