

INDIAN BUREAU OF MINES

--:-- Inspection Report --:--

Part-I : General Information

1.1.1 Mine Details

Name of the Mine :	GHORABHURAHNI SAGASAH I IRON ORE MINE	Lease Area (Ha) :	139.165
Forest Area (Ha) :	126	Mine Code :	30ORI13071
Registration Number :	IBM/571/2011	Name of lessee :	ARCELORMITTAL NIPPON STEEL INDIA PRIVATE LIMITED
Address of lessee :	AMNS HOUSE,AMNS TOWNSHIP ,27TH KM,SURAT- HAZIRAROAD,HAZIRA,SURAT,Gujarat,	Phone of lessee :	0261-6682400
Email of lessee :	Mateen.rizvi@amns.in	Fax Number :	N/A
Village :	Segasahi	Taluka / Mandal :	Koida
District :	Sundargarh	Pincode :	394270
State :	Odisha	Post Office :	N/A
Nearest Police Station :	N/A	Nearest Railway Station :	N/A
Date of Grant of Mining Lease :	2021-03-26	Date of Mining Lease Execution :	2021-03-26

Date of opening in the mine :	Nilsss		
Nominated Owner Details			
Name of the Nominated Owner :	Mr DILIP OOMMEN	Nominated Owner Address:	27th KM SURAT HAZIRA ROAD, HAZIRA, HAZIRA, Surat,
Nominated Owner Mobile :	7766902008	Nominated Owner Email :	Dilip.oommen@amns.in
Nominated Owner Fax Number :	Nil	Date of Nominated Owner Appointment :	2023-03-23
Mining Engineer Details			
Name of the Mining Engineer :	Anupkumar Jha	Qualification of Mining Engineer :	BE (Mining) With 1st Class Mines Manager's Competency
Address of Mining Engineer :	Ghoraburhani Sagasahi Iron Ore Mine, Village-Ghoraburhani, PO: Malda, PS: Koira, Sundargarh, Odisha-770048	Phone of Mining Engineer :	8208763729
Email of Mining Engineer :	Anupkumar.jha@amns.in	Fax Number of Mining Engineer :	N/A
Date of Mining Engineer Appointment :	2024-05-20		
Geologist Details			
Name of the Geologist :	Susanta Maharana	Qualification of Geologist :	M.Sc Applied Geology
Address of Geologist :	Ghoraburhani Sagasahi Iron Ore Mine, Village-Ghoraburhani, PO: Malda, PS: Koira, Sundargarh Odisha-770048	Phone of Geologist :	8763454499
Email of Geologist :	Susanta.maharana@amns.in	Fax Number of Geologist :	N/A
Date of Geologist Appointment :	2024-02-22		
Mine Manager Details			

Name of the Mine Manager :	Satyakama Das	Qualification of Mine Manager :	BE (Mining) With 1st Class Mines Manager's Competency
Address of Mine Manger :	Ghoraburhani Sagasahi Iron Ore Mine, Village-Ghoraburhani, PO: Malda, PS: Koira, Sundargarh Odisha-770048	Phone of Mine Manger :	7024264572
Email of Mine Manger :	Satyakama.das@amns.in	Fax Number of Mine Manger :	N/A
Date of Mine Manger Appointment :	2024-05-17		
Mineral(s) granted in lease and proved for mining :	IRON ORE	Date of Approval of Mining Plan / Modified Mining Plan / ROMP with five-year period :	2025-01-24 (2025 - 2029)
Method of mining :	Open Cast	Category :	MECHANISED
Nature of Use :	Captive		

Part-II : Other Information

2.1.1 : Inspection Details

Inspecting Officer :	VIKRAM DESHPANDE
Designation :	ACOM
Name of the Accompanying Official from Mine :	Satyakama Das
Designation of the Accompanying Official :	Mines Manager
Type of Inspection :	MCDR
Date of Inspection :	30/11/2025
Review year considered for MCDR Inspection :	2024-2025

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2.2.1 : Exploration Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Number of Core Boreholes	Nil	Nil	0.000	No Violation
Remark: NIL Remark File: NIL					
2	Number of DTH Boreholes	Nil	Nil	0.000	No Violation
Remark: NIL Remark File: NIL					
3	Number of exploratory pits / trial pits	Nil	Nil	0.000	No Violation
Remark: NIL Remark File: NIL					
4	Number of exploratory Trenches	Nil	Nil	0.000	No Violation
Remark: NIL Remark File: NIL					
5	Lateral exploration status for the lease area - G1	90.62 Ha	92.63 Ha	Nil	No Violation
Remark: NIL Remark File: NIL					

6	Lateral exploration status for the lease area-G2	48.545 Ha	46.535 Ha	Nil	No Violation
Remark: 46.535 Ha area is proved as non-Mineralized Remark File: NIL					
7	Lateral exploration status for the lease area-G3	Nil	Nil	0.000	No Violation
Remark: NIL Remark File: NIL					
8	Lateral exploration status for the lease area-G4	Nil	Nil	0.000	No Violation
Remark: NIL Remark File: NIL					
9	UNFC category wise reported Resources/Reserves as per MP/MMP ROMP Total Reserves (111, 121 & 122) and Total Mineral Resources (331, 332 & 333 upto 334)	Nil	Reserve: 82,591,457 mt Remaining -resource: 81,935,827 mt Total Resource: 1,64,527,284 mt Reserve: 111: 82,591,457 mt 121: Nil 122: Nil Total Mineral Resource: 311: 1,64,527,284 mt 322: Nil 333: Nil 334: Nil Reserve: 111: 82,591,457 mt 121: Nil 122: Nil Total Mineral Resource: 311: 1,64,527,284 mt 322: Nil 333: Nil 334: Nil	Nil	No Violation
Remark: NIL Remark File: NIL					

2.3.1 : Development - Opencast Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Location of development w.r.t. lease area	North Pit: E-322816 to 323225 N-2428010 to 2428568 Bottom RL: 540m South Pit: E-322900 to 323542 N-2427600 to 2427838 Bottom RL: 600	North Pit: E- 322816 to 323225 N- 2428010 to 2428440 Bottom RL: 546m South Pit: E- 322900 to 323542 N- 2427373 to 2427838 Bottom RL: 605	0	No Violation
Remark: There is no deviation of lateral and vertical extend. The development work is within the proposed locations Remark File: NIL					
2	Quantity of overburden generation in m3	1398368	530321.50	The targeted OB generation fell short by 868046.500 tonnes	Rule 11(1)
Remark: NIL Remark File: NIL					
3	Quantity of topsoil generation in m3	3960	755.20	The quantity of topsoil could not be achieved by 3204.800 tonnes	Rule 11(1)
Remark: NIL Remark File: NIL					
4	Stripping ratio : ore to OB ratio	North Pit-1:0.24 South Pit-1:0.12	1:0.07	The targeted stripping ratio could not be achieved	Rule 11(1)
Remark: NIL Remark File: NIL					

2.4.1 Exploitation - Opencast Mine Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Number of pits / Blocks	2	2	0.000	No

	proposed for production				Violation
Remark: NIL Remark File: NIL					
2	Quantity of ROM mineral production proposed (in T)	7162538	6369465	The targeted ROM production could not be achieved by 793073.000 tonnes	Rule 11(1)
Remark: NIL Remark File: NIL					
3	Recovery of salable/usable mineral quantity from ROM production in T)	6161767	4975965	The targeted salable mineral quantity fell short by 1185802.000 tonnes	Rule 11(1)
Remark: NIL Remark File: NIL					
4	Quantity of mineral reject/Sub-grade generation	1000771	1393500	-392729.000	No Violation
Remark: The top benches of South pit is mostly of sub-grade ore deposit. Due to backlog of lateral extension of top benches in previous financial years the generation of subgrade was reported more against the proposal. Remark File: NIL					
5	Grade of mineral reject/sub-grade generation as per threshold value declared	45 to 58%Fe	55.50% Fe	0	No Violation
Remark: NIL Remark File: NIL					
6	Manual/Mechanised method adopted for segregating subgrade/mineral rejects from ROM	Mechanized	Mechanized	0	No Violation
Remark: NIL Remark File: NIL					
7	Whether height of	10 m height proposed	Maintained at most of the Places except near OB-1	During inspection bench height was found to be in	Rule

	benches in Overburden & mineral suitable for method of mining proposed in mining plan		area of North Pit	excess of the proposed near OB-1 area of North Pit	11(1)
Remark: NIL Remark File: NIL					
8	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	0	No Violation
Remark: NIL Remark File: NIL					

2.4.3 : Exploitation - Dump Working Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Number of dumps proposed for production	0	0	0.000	No Violation
Remark: NIL Remark File: NIL					
2	Quantity of dump material handling Proposed (in Tonne)	0	0	0.000	No Violation
Remark: NIL Remark File: NIL					

3	Recovery of salable/usable mineral from dump production (in Tonne)	0	0	0.000	No Violation
Remark: NIL Remark File: NIL					
4	Production from dump(s) during the year	0	0	0.000	No Violation
Remark: NIL Remark File: NIL					
5	Quantity of mineral reject generation	0	0	0.000	No Violation
Remark: NIL Remark File: NIL					
6	Grade of mineral reject generation and threshold value declared	0	0	0.000	No Violation
Remark: NIL Remark File: NIL					
7	Any analysis or beneficiation study proposed & carried out for mineral reject	0	0	0.000	No Violation
Remark: NIL Remark File: NIL					
8	Manual / Mechanized method adopted for dump working	0	0	0.000	No Violation
Remark: NIL Remark File: NIL					

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2.5.1 : OB/Waste Dumps Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Separate dumping of topsoil, OB & mineral rejects, fines, tailings (Rule 36,37)	Separate dumping of topsoil, OB & Mineral rejects, fines is proposed	Separate dumping of topsoil, OB & Mineral rejects, fines carried out	0	No Violation
Remark: NIL Remark File: NIL					
2	Location of Topsoil, OB/Waste, Mineral Reject dumps, Tailings and Fines	Topsoil: Near MLB 11 & 12 OB/Waste: Waste Dump-1: Near MLB 1 & 2 Waste Dump-2: Near MLB 10 & 11 Waste Dump-3: Near MLB 18, 19 & 20 Mineral Reject Dumps: Temporary Mineral reject Stock-1 near MLB 3, Temporary Mineral reject Stock-2 near MLB 5, Temporary Mineral reject Stock-3 near MLB 7, Temporary Mineral reject Stock-4 near MLB 30	TopSoil: Near MLB-7 OB/Waste: Waste Dump-1: Near MLB 1 & 2 Waste Dump-2: Near MLB 10 & 11 Waste Dump-3: Near MLB 18, 19 & 20 Mineral Reject Dumps: Temporary Mineral reject Stock-2 near MLB 5, Temporary Mineral reject Stock-3 near MLB 7,	0	No Violation
Remark: NIL Remark File: NIL					
3	Number of active & Inative dumps	Active Dump-2 nos Inactive Dump-1 no	Active Dump-2 nos Inactive Dump-1 no	0	No Violation
Remark: NIL Remark File: NIL					
4	Number of dead dumps	1	1	0.000	No Violation
Remark: Waste Dump-1					

Remark File: NIL					
5	Number of dumps proposed for stabilised	1	1	0.000	No Violation
Remark: Waste Dump-1 Remark File: NIL					
6	Stabilization Technique (Terracing, plantation, geo-textiles etc.)	Stabilization by means of Terracing & geo-textile.	Stabilization by means of Terracing & geo-textile.	0	No Violation
Remark: NIL Remark File: NIL					

2.6.1 : Solid Waste Management - Backfilling (Opencast) Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Status on part or full extraction of mineral from mined out area before starting backfilling	Part Extraction	0	It was proposed to carry out backfilling in Northern Pit but the same has not been carried out.	Rule 11(1)
Remark: NIL Remark File: NIL					
2	Year-wise area under backfilling of mined out area	25760	0	It was proposed to carry out backfilling over an area of 25760 ha. However, during inspection it was observed that no such backfilling was carried out.	Rule 11(1)
Remark: NIL Remark File: NIL					
3	Year-wise topsoil	Generation-3960 Utilization: 3690	Generation-755.2 Utilization: 295	The targeted generation of topsoil and its	Rule

	generation, Utilization and Stored proposal (in m3)			utilization could not be achieved.	11(1)
Remark: NIL Remark File: NIL					
4	Total area fully reclaimed & rehabilitated	0	0	0.000	No Violation
Remark: NIL Remark File: NIL					
5	Locations of proposed reclamation & rehabilitated	0	0	0.000	No Violation
Remark: NIL Remark File: NIL					

2.7.1 : Progressive Mine Closure Plan (PMCP) Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Compliance on reclamation and rehabilitation by backfilling/Other means Total area and numbers of plantation proposed.	Backfilling over an area of 25760 ha area proposed in North Pit 1760	None 1760	Backfilling over an area of 25760 ha area proposed in North Pit was observed not carried out	Rule 11(1)
Remark: NIL Remark File: NIL					

2	Rehabilitation by making water reservoir	0	0	0.000	No Violation
Remark: NIL Remark File: NIL					
3	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	0	0	0.000	No Violation
Remark: NIL Remark File: NIL					
4	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring (core zone & buffer zone) proposed	Environmental monitoring (core zone & buffer zone) carried out	0	No Violation
Remark: NIL Remark File: NIL					

2.8.1 : Mineral Conservation Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting proposed	Grade-wise sorting carried out	0	No Violation

Remark: NIL Remark File: NIL					
2	Different grade of mineral sorted out at mines	Fines: 55% to below 58% Fe 58% to below 60% Fe 60% to below 62% Fe 62% to below 65% Fe 65% and above Fe CLO: Below 62% Fe (CLO any size) 62% to below 65% Fe (5-18 mm size CLO 62% to below 65% Fe (10-40 mm size CLO)	Fines: 55% to below 58% Fe 58% to below 60% Fe 60% to below 62% Fe 62% to below 65% Fe 65% and above Fe CLO: Below 62% Fe (CLO any size) 62% to below 65% Fe (5-18 mm size CLO 62% to below 65% Fe (10-40 mm size CLO)	0	No Violation
Remark: NIL Remark File: NIL					
3	Any beneficiation process at mines	None	None	Nil	No Violation
Remark: NIL Remark File: NIL					
5	Utilization of Mineral Rejects or Sub-grade (Blending at ROM stage, Blending after Processing etc.)	None	None	0	No Violation
Remark: NIL Remark File: NIL					

2.9.1 : Environment Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Separate removal and utilization of topsoil	Proposed	Carried Out	0	No Violation

Remark: NIL Remark File: NIL					
2	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	0	0	0.000	No Violation
Remark: NIL Remark File: NIL					
3	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	0	0	0.000	No Violation
Remark: NIL Remark File: NIL					
4	Plantation & Survival rate	Safety zone: 800 Nos & 80% Survival Dump plantation: 960 Nos & 70% Survival	Plantation-1760 Survival Rate-73%	0	No Violation
Remark: NIL Remark File: NIL					
5	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust proposed	Water sprinkling on roads to control airborne dust carried out	0	No Violation
Remark: Water sprinkling is carried out by means of 6 nos of water tanker with (2 X 8 K, 4 X 16 KL). Dry fogging system is provided at Crush and screen plant for control of fugitive dust emission. Remark File: NIL					

2.10 : Annual Return Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Submission of Online Monthly and Annual returns in prescribed period or not	Monthly and Annual Returns to be submitted online within prescribed period	Monthly and Annual Returns submitted online within prescribed period	0	No Violation
Remark: NIL Remark File: NIL					
2	Appointment of Mining Engineer & Geologist as per provisions of Rule 55 of MCDR,2017	Mining Engineer: Anup Jha Mining Geologist: Susanta Maharana	Mining Engineer: Anup Jha Mining Geologist: Susanta Maharana	0	No Violation
Remark: NIL Remark File: NIL					
3	Whether incomplete or false or wrong returns submitted (Rule 45(7))	Complete and Correct Returns to be submitted	Returns are complete but in-correct information submitted	1. The information regarding fixed assets is incorrectly furnished. 2. The land utilization data does not match with the attached KML and PMCP report. 3. The ex-mine price of CLO 62 to 65% FE 5-18mm is more than CLO 62 to 65% Fe 10-40mm	Rule 45(7)
Remark: NIL Remark File: NIL					
4	Status of Approval of FMPCP u/r 24, 25 of MCDR,2017	NA	NA	0	No Violation
Remark: NIL Remark File: NIL					
5	Notices and Returns for the lease area submitted or not where fine applicable	Notices and Returns to be submitted where fine applicable.	Notices and Returns submitted where fine applicable.	0	No Violation
Remark: NIL Remark File: NIL					
6	Scrutiny of Annual return on sale value, Ex.	Fines: 55% to below 58% Fe-2769.83 58% to below 60% Fe- 3142.54 60% to below 62% Fe-	The cost of production and ex-mine price of majority grades except 62-65% Fe CLO 10-40 mm	The ex-mine price of CLO 62 to 65% FE 5-18mm is more than CLO 62 to 65% Fe 10-40mm	Rule 45(7)

	Mine price & production cost	3230.75 62% to below 65% Fe-3435.76 65% and above Fe- 3451.84 CLO: Below 62% Fe (CLO any size)- 3451.84 62% to below 65% Fe (5-18 mm size CLO- 6181.64 62% to below 65% Fe (10-40 mm size CLO)-5596.08 Cost of production : 3287.32	appears to be in order	
Remark: NIL Remark File: NIL				

2.11 : SDF Details

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Start Ratings accorded for mine during last 3 years	4	3	1.000	No Violation
Remark: NIL Remark File: NIL					

Part-III : Other Reports

3.1.1 : Upload Other Reports

S.N.	Reports File	Remark File Description
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1	NIL	None
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Part-IV : Summary Details

4.1 : Summary of Violations

S.N	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule
1	Development - Opencast : Quantity of overburden generation in m ³	1398368	530321.50	The targeted OB generation fell short by 868046.500 tonnes	Rule 11(1)
Remark: NIL Remark File: NIL					
2	Development - Opencast : Quantity of topsoil generation in m ³	3960	755.20	The quantity of topsoil could not be achieved by 3204.800 tonnes	Rule 11(1)
Remark: NIL Remark File: NIL					
3	Development - Opencast : Stripping ratio : ore to OB ratio	North Pit-1:0.24 South Pit-1:0.12	1:0.07	The targeted stripping ratio could not be achieved	Rule 11(1)
Remark: NIL Remark File: NIL					
4	Exploitation - Opencast Mine : Quantity of ROM mineral production proposed (in T)	7162538	6369465	The targeted ROM production could not be achieved by 793073.000 tonnes	Rule 11(1)

Remark: NIL Remark File: NIL					
5	Exploitation - Opencast Mine : Recovery of salable/usable mineral quantity from ROM production in T)	6161767	4975965	The targeted salable mineral quantity fell short by 1185802.000 tonnes	Rule 11(1)
Remark: NIL Remark File: NIL					
6	Exploitation - Opencast Mine : Whether height of benches in Overburden& mineral suitable for method of mining proposed in mining plan	10 m height proposed	Maintained at most of the Places except near OB-1 area of North Pit	During inspection bench height was found to be in excess of the proposed near OB-1 area of North Pit	Rule 11(1)
Remark: NIL Remark File: NIL					
7	Solid Waste Management - Backfilling (Opencast) : Status on part or full extraction of mineral from mined out area before starting backfilling	Part Extraction	0	It was proposed to carry out backfilling in Northern Pit but the same has not been carried out.	Rule 11(1)
Remark: NIL Remark File: NIL					
8	Solid Waste Management - Backfilling (Opencast) : Year-wise area under backfilling of mined out area	25760	0	It was prosed to carryout backfilling over an area of 25760 ha . However, during inspection it was observed that no such backfilling was carried out.	Rule 11(1)
Remark: NIL Remark File: NIL					
9	Solid Waste Management -	Generation-3960 Utilization: 3690	Generation-755.2 Utilization: 295	The targeted generation of topsoil and its utilization could not be achieved.	Rule 11(1)

	Backfilling (Opencast) : Year-wise topsoil generation, Utilization and Stored proposal (in m3)				
Remark: NIL Remark File: NIL					
10	Progressive Mine Closure Plan : Compliance on reclamation and rehabilitation by backfilling/Other means Total area and numbers of plantation proposed.	Backfilling over an area of 25760 ha area proposed in North Pit 1760	None 1760	Backfilling over an area of 25760 ha area proposed in North Pit was observed not carried out	Rule 11(1)
Remark: NIL Remark File: NIL					
11	Annual Return : Whether incomplete or false or wrong returns submitted (Rule 45(7))	Complete and Correct Returns to be submitted	Returns are complete but in-correct information submitted	1. The information regarding fixed assets is incorrectly furnished. 2. The land utilization data does not match with the attached KML and PMCP report. 3. The ex-mine price of CLO 62 to 65% Fe 5-18mm is more than CLO 62 to 65% Fe 10-40mm	Rule 45(7)
Remark: NIL Remark File: NIL					
12	Annual Return : Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Fines: 55% to below 58% Fe-2769.83 58% to below 60% Fe- 3142.54 60% to below 62% Fe-3230.75 62% to below 65% Fe-3435.76 65% and above Fe- 3451.84 CLO: Below 62% Fe (CLO any size)- 3451.84 62% to below 65% Fe (5-18 mm size CLO)- 6181.64 62% to below 65% Fe (10-40 mm size CLO)-5596.08 Cost of production : 3287.32	The cost of production and ex-mine price of majority grades except 62-65% Fe CLO 10-40 mm appears to be in order	The ex-mine price of CLO 62 to 65% FE 5-18mm is more than CLO 62 to 65% Fe 10-40mm	Rule 45(7)
Remark: NIL Remark File: NIL					
13	Plans and Sections	To be maintained updated	Not maintained	The Plans and Sections have not been maintained as per the Rules	Rule 31(4)

Remark: NIL Remark File: NIL					
14	Log Book	Log book for all machineries to be maintained in a log book signed by the manager.	Not Maintained	A log book duly authenticated by manager or mining engineer for the machinery was not available during inspection	Rule 19(1) Rule 19(2)
Remark: NIL Remark File: NIL					

Final Submitted

Esigned by: VIKRAM DESHPANDE
Date: 27/12/2025 06:49:03 PM