

INDIAN BUREAU OF MINES

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

Part-I : General Information

1.1.1 Mine Details

Name of the Mine :	THAKURANI IRON MINE 30ORI08121	Lease Area (Ha) :	228.744
Forest Area (Ha) :	147	Mine Code :	30ORI08121
Registration Number :	IBM/23053/2020	Name of lessee :	ArcelorMittal India Private Limited
Address of lessee :	Regus Business Centre, Office No. 317, 2nd And 3rd Floor ,Privillion, Block B - 202, 203, 204, East Wing, Sarkhej - Gandhinagar Highway, Ahmedabad City	Phone of lessee :	0796-8325404
Email of lessee :	Pramodkumar.mishra@arcelormittal.com	Fax Number :	N/A
Village :	Thakurani	Taluka / Mandal :	Barbil
District :	Kendujhar	Pincode :	380054
State :	Odisha	Post Office :	N/A
Nearest Police Station :	N/A	Nearest Railway Station :	N/A
Date of Grant of Mining Lease :	2020-06-27	Date of Mining Lease Execution :	2020-06-27

Date of opening in the mine :	Nilsss		
Nominated Owner Details			
Name of the Nominated Owner :	Mr Dilip Oommen	Nominated Owner Address:	Regus Business Centre Office No 317 2 And 3 Floor
Nominated Owner Mobile :	9437247698	Nominated Owner Email :	Satish.mohanty@amns.in
Nominated Owner Fax Number :	Nil	Date of Nominated Owner Appointment :	2020-07-14
Mining Engineer Details			
Name of the Mining Engineer :	Santosh Kumar Dash	Qualification of Mining Engineer :	BE(Mining)
Address of Mining Engineer :	Thakurani Iron Ore Mines M/s ArcelorMittal India Pvt. Ltd At- Dalki, Po- Thakurani, P.S- Barbil, Dist.- Keonjhar Odisha ,758035	Phone of Mining Engineer :	9437653005
Email of Mining Engineer :	N/A	Fax Number of Mining Engineer :	N/A
Date of Mining Engineer Appointment :	2025-03-24		
Geologist Details			
Name of the Geologist :	Sushanta Kumar Mahanta	Qualification of Geologist :	M.Sc. Geology
Address of Geologist :	Thakurani Iron Ore Mines M/s ArcelorMittal India Pvt. Ltd At- Dalki, Po- Thakurani, P.S- Barbil, Dist.- Keonjhar Odisha ,758035	Phone of Geologist :	9090453527
Email of Geologist :	Sushanta.Mahanta@amns.in	Fax Number of Geologist :	N/A
Date of Geologist Appointment :	2022-12-12		
Mine Manager Details			

Name of the Mine Manager :	Indrakant Saha	Qualification of Mine Manager :	BE
Address of Mine Manger :	Thakurani Iron Ore Mines M/s ArcelorMittal India Pvt. Ltd At- Dalki, Po- Thakurani, P.S- Barbil, Dist.- Keonjhar Odisha ,758035	Phone of Mine Manger :	9437055075
Email of Mine Manger :	Indrakant.saha@amns.in	Fax Number of Mine Manger :	N/A
Date of Mine Manger Appointment :	2024-10-31		
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 :	2025-01-03 (2025 - 2029)
Method of mining :	Open Cast	Category :	N/A
Nature of Use :	Captive		

Part-II : Other Information

2.1.1 : Inspection Details

Inspecting Officer :	VIKRAM DESHPANDE
Designation :	Inspection Officer
Name of the Accompanying Official from Mine :	Indrakant Saha
Designation of the Accompanying Official :	Mines Manager
Type of Inspection :	MCDR
Date of Inspection :	26/07/2025
Review year considered for MCDR Inspection :	2024-2025

Final Submitted

2.2.1 : Exploration Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File	
1	Number of Core Boreholes	44	0	44.000	No Violation	The Lessee has completed the proposed exploration in advance which has been proposed till 2024-25	Nil	
2	Number of DTH Boreholes	0	0	0.000	No Violation	Nil	Nil	
3	Number of exploratory pits / trial pits	0	0	0.000	No Violation	Nil	Nil	
4	Number of exploratory Trenches	0	0	0.000	No Violation	Nil	Nil	
5	Lateral exploration status for the lease area	G1	0	0	0.000	No Violation	Entire Lease area explored under G-1	Nil
6		G2	0	0	0.000	No Violation	Nil	Nil
7		G3	0	0	0.000	No Violation	Nil	Nil
8		G4	0	0	0.000	No Violation	Nil	Nil
9	UNFC category wise reported	Iron-Total Reserv	Iron-Total Reserv	0	No Violation	AR-2024-25	Nil	

	Resources/Reserves as per MP/MMP ROMP Total Reserves (111, 121 & 122) and Total Mineral Resources (331, 332 & 333 upto 334)	es-117,271,553.00 Total Mineral Resources-39,041,009.00 Figures as on 31/03/2024	es-86,757,426.00 Total Mineral Resources-36,584,383.00 Figures as on 31/03/2025				
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2.3.1 : Development - Opencast Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Location of development w.r.t. lease area	2445255N-2447187 N 338066E- 339283 E	2445246N-2446957N 338785E - 338342 E	0	No Violation	Due to unavailability of forest permission top development is not being done.	Nil
2	Quantity of overburden generation in m3	2298938	1184850	1114088.000	No Violation	Due to unavailability of forest permission top development is not being done hence less generation of OB	Nil
3	Quantity of topsoil generation in m3	1150	650	500.000	No Violation	Due to unavailability of forest permission top development is not being done hence less generation of	Nil

						topsoil	
4	Stripping ratio : ore to OB ratio	1:0.92	1:0.47	1:0.45	No Violation	Due to unavailability of forest permission top development is not being done hence less generation of OB	Nil

2.4.1 Exploitation - Opencast Mine Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Number of pits / Blocks proposed for production	2	2	0.000	No Violation	PIT-1 & PIT-2	Nil
2	Quantity of ROM mineral production proposed (in T)	5500000	5499916	84.000	No Violation	Nil	Nil
3	Recovery of salable/usable mineral quantity from ROM production in T)	4309543	4575118	-265575.000	No Violation	Due less in production of MR, ROM processing is increased marginally.	Nil
4	Quantity of mineral reject/Sub-grade generation	1190457	488656	701801.000	No Violation	Lateral extension could not be achieved because of the delay in	Nil

						getting the working permission of South eastern part of the lease. Hence the proposed mineral reject supposed to be generated from top development could not be achieved.	
5	Grade of mineral reject/sub-grade generation as per threshold value declared	45 to 55% Fe	45 to 55% Fe	0	No Violation	Nil	Nil
6	Manual/Mechanised method adopted for segregating subgrade/mineral rejects from ROM	Mechanised	Mechanised	0	No Violation	Nil	Nil
7	Whether height of benches in Overburden& mineral suitable for method of mining proposed in mining plan	10m height and 15m width	Not Carried Out	Pit-1	Rule 11(1)	Nil	Nil
8	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	Not Carried Out	Nil	No Violation	Nil	Nil

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2.4.3 : Exploitation - Dump Working Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Number of dumps proposed for production	Not Proposed	Not Carried Out	0.000	No Violation	Nil	Nil
2	Quantity of dump material handling Proposed (in Tonne)	0	0	0.000	No Violation	Nil	Nil
3	Recovery of salable/usable mineral from dump production (in Tonne)	0	0	0.000	No Violation	Nil	Nil
4	Production from dump(s) during the year	0	0	0.000	No Violation	Nil	Nil
5	Quantity of mineral reject generation	0	0	0.000	No Violation	Nil	Nil
6	Grade of mineral reject generation and threshold value declared	0	0	0.000	No Violation	Nil	Nil
7	Any analysis or beneficiation study proposed & carried out for mineral reject	0	0	0.000	No Violation	Nil	Nil
8	Manual / Mechanized method adopted for dump working	0	0	0.000	No Violation	Nil	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	Remark	Remark File
1	Separate dumping of topsoil, OB & mineral rejects, fines, tailings (Rule 36,37)	Separate dumping of topsoil, OB & mineral reject proposed	Separate dumping of topsoil, OB & mineral reject carried out	Dumping of OB not carried out in Dump 7 as proposed	Rule 11(1)	Dump 7(Near southern Lease Boundary) not made.	Nil
2	Location of Topsoil, OB/Waste, Mineral Reject dumps, Tailings and Fines	OB Dump No-7 2:06:18.90-22:06:37.30N 85:25:48.60-85:26:04.20E Dump No-5 2446 594-2446887N 338269-338432E Top RL-795 m Dump No-3 2445 388-2445898N 338040-338409E Top RL-795 m Dump No-4 2445 640.8-2445759.9 N 338060.4-3381 39.1E NA Mineral Reject 24 45303-2445689N 337651-337965E Top RL-610 m Topsoil 22:06:41.9-22:06:43.1N 85 :25:44.4-85:25:44 .7E Dump No-3 2445 388-2445898N 338040-338409E Dump No-4 2445 640.8-2445759.9 N 338060.4-3381 39.1E	Dump No-5 2446 594-2446887N 338269-338432E Top RL-795 m Dump No-3 2445 388-2445898N 338040-338409E Dump No-4 2445 640.8-2445759.9 N 338060.4-3381 39.1E NA Mineral Reject 24 45303-2445689N 337651-337965E Top RL-610 m Topsoil 22:06:41.9-22:06:43.1N 85 :25:44.4-85:25:44 .7E	Dump 7(Near southern Lease Boundary) not made.	No Violation	Dump 7(Near southern Lease Boundary) not made.	Nil
3	Number of active & Inative dumps	04	03	1.000	No Violation	Dump 3,4 & 5	Nil

4	Number of dead dumps	00	00	0.000	No Violation		Nil
5	Number of dumps proposed for stabilised	02	02	0.000	No Violation		Nil
6	Stabilization Technique (Terracing, plantation, geo-textiles etc.)	Plantation	Plantation	0.000	No Violation		Nil

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2.6.1 : Solid Waste Management - Backfilling (Opencast) Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Status on part or full extraction of mineral from mined out area before starting backfilling	Extraction of mineral from mined out area before starting backfilling	Carried out	0	No Violation	Nil	Nil
2	Year-wise area under backfilling of mined out area	3.46	3.45	0.010	No Violation	2024-25	Nil
3	Year-wise topsoil generation, Utilization and Stored proposal (in m3)	1150	650	500.000	No Violation	Due to unavailability of forest permission not achieved as per proposal	Nil
4	Total area fully reclaimed & rehabilitated	0	0	0.000	No Violation	Nil	Nil
5	Locations of proposed reclamation & rehabilitated	0	0	0.0000	No Violation	Nil	Nil

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2.7.1 : Progressive Mine Closure Plan (PMCP) Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Compliance on reclamation and rehabilitation by backfilling/Other means Total area and numbers of plantation proposed.	3.46 1.25, 2000	3.45 1.3, 3000	-0.010	No Violation	Nil	Nil
2	Rehabilitation by making water reservoir	Not Proposed	Not Carried Out	0.000	No Violation	Nil	Nil
3	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not Proposed	Not Carried Out	Nil	No Violation	Nil	Nil
4	Compliance of Environmental monitoring (core zone & buffer zone)	Monitoring of Air, Water and Noise Standards proposed	Monitoring of Air, Water and Noise Standards carried out	0	No Violation	Nil	Nil

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2.8.1 : Mineral Conservation Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	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	0	No Violation	Nil	Nil
2	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	0	No Violation	Nil	Nil
3	Any beneficiation process at mines	Dry beneficiation by using crusher and screen plant	Ore processing by Crushing & screening plants	0	No Violation	Nil	Nil
5	Utilization of Mineral Rejects or Sub-grade (Blending at ROM stage, Blending after Processing etc.)	Blending at ROM stage	Blending at ROM stage carried of low grade	0	No Violation	Nil	Nil

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2.9.1 : Environment Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Separate removal and utilization of topsoil	Separate removal of topsoil and its utilization proposed	Separate removal of topsoil and its utilization carried out	0	No Violation	Utilized for plantation	Nil
2	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Not Carried Out	0	No Violation	Nil	Nil
3	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Not Carried out	0	No Violation	Nil	Nil
4	Plantation & Survival rate	2000, 70%	3000, 70%	0	No Violation	Nil	Nil
5	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust carried out	0	No Violation	Water sprinkling carried out by 4 Water tankers, 2-8KLD, 1 each for 10 KLD and 16 KLD	Nil

Final Submitted

2.10 : Annual Return Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Submission of Online Monthly and Annual returns in prescribed period or not	Submission of Online Monthly and Annual returns in prescribed period	Submitted	0	No Violation	Nil	Nil
2	Appointment of Mining Engineer & Geologist as per provisions of Rule 55 of MCDR,2017	1. Sri Sujit Kumar Dash Mining Engineer 2. Sri Sushanta Kumar Mahanta - Geologist.	1. Sri Sujit Kumar Dash Mining Engineer 2. Sri Sushanta Kumar Mahanta - Geologist.	0	No Violation	Nil	Nil
3	Whether incomplete or false or wrong returns submitted (Rule 45(7))	Correct and complete to be submitted.	Correct and complete submitted.	0	No Violation	Nil	Nil
4	Status of Approval of FMPCP u/r 24, 25 of MCDR,2017	NA	NA	0	No Violation	Nil	Nil
5	Notices and Returns for the lease area submitted or not where fine applicable	Notices and Returns for the lease area to be submitted	Notices and Returns for the lease area submitted	0	No Violation	Nil	Nil
6	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	51% to below 55% Fe- 3200.00 55% to below 58% Fe- 3154.00 58% to below 60% Fe-3976.00 60% to below 62% Fe-5888.00	Appears to be correct.	0	No Violation	Nil	Nil

		62% to below 65% Fe- 6508.00 65% and above Fe-6360.00 Above figures are for Fines CLO: (a) Below 62% Fe (CLO any size)-4214.00 (b) 62% to below 65% Fe (5-18 mm size CLO)-6300. (c) 62% to below 65% Fe (10-40 mm size CLO)-4200.00. Cost of Production: Rs 5864.21				
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2.11 : SDF Details

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

Part-III : Other Reports

3.1.1 : Upload Other Reports

S.N.	Reports File	Remark File Description
1	Signed_VL_Thakurani_of_AMNS.pdf	Nil

Final Submitted

Part-IV : Summary Details

4.1 : Summary of Violations

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Exploitation - Opencast Mine : Whether height of benches in Overburden & mineral suitable for method of mining proposed in mining plan	10m height and 15m width	Not Carried Out	Pit-1	Rule 11(1)	Nil	Nil
2	OB / Waste Dumps details : Separate dumping of topsoil, OB & mineral rejects, fines, tailings (Rule 36,37)	Separate dumping of topsoil, OB & mineral reject proposed	Separate dumping of topsoil, OB & mineral reject carried out	Dumping of OB not carried out in Dump 7 as proposed	Rule 11(1)	Dump 7(Near southern Lease Boundary) not made.	Nil
3	upto date plans and sections to be maintained	upto date plans and sections were not found to be maintained	upto date plans and sections were not found to be maintained	upto date plans and sections were not found to be maintained	Rule 31(4)	Nil	Nil

Esigned by:  VIKRAM DESHPANDE
Date: 26/08/2025 03:02:50 PM