

# INDIAN BUREAU OF MINES

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

### Part-I : General Information

#### 1.1.1 Mine Details

Name of the Mine :	40ORI08003	Lease Area (Ha) :	464
Forest Area (Ha) :	145	Mine Code :	40ORI08003
Registration Number :	IBM/4376/2011	Name of lessee :	Tata Steel Limited
Address of lessee :	Bombay House,24 Homi Mody ,street Fort,, Mumbai	Phone of lessee :	022-66658282
Email of lessee :	Gm.office@tatasteel.com	Fax Number :	N/A
Village :	Palasa(Kha)	Taluka / Mandal :	Bamebari
District :	Kendujhar	Pincode :	400001
State :	Odisha	Post Office :	N/A
Nearest Police Station :	N/A	Nearest Railway Station :	N/A
Date of Grant of Mining Lease :	2015-05-08	Date of Mining Lease Execution :	2015-05-08
Date of opening in the mine :	Nilsss		

<b>Nominated Owner Details</b>			
Name of the Nominated Owner :	Mr THACHAT VISWANATH NARENDRAN	Nominated Owner Address:	Bungalow No. 5, C Road, Northern Town, Jamshedpur
Nominated Owner Mobile :	6572424602	Nominated Owner Email :	Narendran@tatasteel.com
Nominated Owner Fax Number :	Nil	Date of Nominated Owner Appointment :	2013-11-01
<b>Mining Engineer Details</b>			
Name of the Mining Engineer :	Alok Singh Sardar	Qualification of Mining Engineer :	BTech
Address of Mining Engineer :	Bamebari Iron And Manganese Mines, At/PO- Bamebari, Dist- Keonjhar, Odisha-758034	Phone of Mining Engineer :	8769579977
Email of Mining Engineer :	Alok.sardar1@tatasteel.com	Fax Number of Mining Engineer :	NA
Date of Mining Engineer Appointment :	2022-05-30		
<b>Geologist Details</b>			
Name of the Geologist :	Shri Sangeeth G	Qualification of Geologist :	M.Sc. (Applied Geology)
Address of Geologist :	Bamebari Iron And Manganese Mines, At/PO- Bamebari, Dist- Keonjhar, Odisha-758034	Phone of Geologist :	7763807661
Email of Geologist :	Sangeeth@tatasteel.com	Fax Number of Geologist :	NA
Date of Geologist Appointment :	2023-05-15		
<b>Mine Manager Details</b>			
Name of the Mine Manager :	Amulya Kumar Panda	Qualification of Mine Manager :	AMIE

Address of Mine Manger :	Bamebari Iron And Manganese Mines, At/PO- Bamebari, Dist- Keonjhar, Odisha-758034	Phone of Mine Manger :	9153981181
Email of Mine Manger :	Amulya@tatasteel.com	Fax Number of Mine Manger :	N/A
Date of Mine Manger Appointment :	2024-07-09		
Mineral(s) granted in lease and proved for mining :	IRON ORE,MANGANESE ORE	Date of Approval of Mining Plan / Modified Mining Plan / ROMP with five-year period :	2025-01-17 (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 :	Amulya Kumar Panda
Designation of the Accompanying Official :	Mines Manager
Type of Inspection :	MCDR
Date of Inspection :	30/07/2025
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	0	0	0.000	No Violation	Backlog exploration could not be carried out due to non-availability of statutory clearances,	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	No Violation	Nil	Nil	
5	Lateral exploration status for the lease area	G1	118.476	0.000	No Violation	Nil	Nil	
6		G2	91.289	0	91.289	Rule 12(4)	All area not converted under G-1.	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 Resources/Reserves as per MP/MMP		Mn-111-0,121-28 85918 122-84457	Nil	No Violation	Figures as on 31/03/2025	Nil	

	ROMP Total Reserves (111, 121 & 122) and Total Mineral Resources (331, 332 & 333 upto 334)		,221-5068921, 222-457799 Fe-111-0, 121-1091020, 122-3411, 221-4054220, 222-440456				
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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	Bamebari - 1438N - 1717N & 2985E - 3354E from 516 to 588 mRL (New Pit) Joribar - 11270N-11635N & 12490E-12871E from 492 mRL to 612 mRL Bonaikela -No Proposal	Bamebari No development carried out. Joribar - 11282N-11498N & 12450E-12789E from 503 mRL to 570 mRL Bonaikela - No development carried out during the year	Not carried out as per proposal in Bamebari	Rule 11(1)	Nil	Nil
2	Quantity of overburden generation in m3	2209166	177173.170	2031992.830	No Violation	No separate violation for 11(1) issued as violation issued for not carrying mining as	Nil

						proposed	
3	Quantity of topsoil generation in m3	10834	0	10834.000	No Violation	No separate violation for 11(1) issued as violation already issued for not carrying mining as proposed. No additional land degraded due to want of Stage- II Forest Clearance.	Nil
4	Stripping ratio : ore to OB ratio	1 : 8.90	1 : 4.94	3.96	No Violation	No separate violation for 11(1) issued as violation already issued for not carrying mining as proposed. Ore & OB Ratio less due to less excavation of Manganese Ore & Mineral Rejects from the Mn. Ore Pit. (CuM : CuM)	Nil

#### 2.4.1 Exploitation - Opencast Mine Details

S.N.	Items for Reporting	As Per Approved	Actual	Deviation	Violation under	Remark	Remark File
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		Mining Plan			Rule		
1	Number of pits / Blocks proposed for production	Bamebari Block 1 No. Joribar Block 1 No. Bonaikela Block Nil	Bamebari Block Nil Joribar Block 1 No. Bonaikela Block Nil	01	No Violation	Separate Violation of 11(1) not issued as already violation for not carrying out mining as proposed has been issued.	Nil
2	Quantity of ROM mineral production proposed (in T)	575600	82939.137	492660.863	Rule 11(1)	Nil	Nil
3	Recovery of salable/usable mineral quantity from ROM production in T)	82939.137	82939.137	0.000	No Violation		Nil
4	Quantity of mineral reject/Sub-grade generation	325600	6018.716	319581.284	No Violation	Separate Violation of 11(1) not issued as already violation for not achieving the targetted production has been issued. Total Generation = 10995.06 Tonnes .4976.34 Tonnes blended and booked in category of >25 % Mn.	Nil
5	Grade of mineral reject/sub-grade generation as per threshold value declared	Threshold Value Mn. Ore - Mn>10% Iron Ore Fe>45% Generation - Mn Ore Mn Content 10-25% Iron Ore	Threshold Value Mn. Ore - Mn>10% Iron Ore Fe>45% Generation - Mn Ore Mn Content 22.18 % (Avg.)	0	No Violation	Iron Ore (MR) - In-situ excavation concurrent to development of Mn. Ore Pits.	Nil

		Fe Content 45-58%	Iron Ore Fe Content 49.20 % (Avg.)				
6	Manual/Mechanised method adopted for segregating subgrade/mineral rejects from ROM	Manual	Manual	0	No Violation	Nil	Nil
7	Whether height of benches in Overburden& mineral suitable for method of mining proposed in mining plan	Bench Height: 6-8 m Bench Width: 8-10 m	Bench Height: 6-8 m Bench Width: 8-10 m	0	No Violation	Nil	Nil
8	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	Not carried out	0	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	0	0	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	0.0000	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 Dumps for topsoil, OB and mineral reject has been proposed.	Separate Dumps for topsoil, OB and mineral reject has been carried out.	0	No Violation	Nil	Nil
2	Location of Topsoil, OB/Waste, Mineral Reject dumps, Tailings and Fines	Waste Dump - Bamebari Back filling of quarry within the extent of 2320N - 2730N & 3267E - 3543E from 590 mRL to 620 mRL Joribar Dump D1 12285N-12418N & 13154E-13514E from 516mRL to 545 mRL Mineral Reject Dumps- Bamebari Block Mn. Ore 2503N-2702N & 3141E-3250E from 577 to 580 mRL Joribar Block Mn. Ore - 11620N-11731N & 12456E - 12807E from 640 to 660 mRL Iron Ore - 11600N 11697N &	Waste Dump - Bamebari 2182N-2494N & 3047E-3433E from 577 mRL to 593 mRL (Disposed to cover up the backlog extent within Phase I within 620 mRL) No disposal over the proposed extent due to want of FC. Mineral Reject Dumps- Bamebari Block No generation of MR due to no operation of new pit. Joribar Block (temporary in pit stacking has been carried out due to less generation due to want of Forest Clearance over proposed	0	No Violation	Phase II could not be started due to non-opening of new pit within Bamebari Block for want of Stage – II FC. Generated waste disposed at Bamebari Block Back filling site to cover up the back log.)	Nil

		12800E - 13034E from 555 to 575 mRL	area) Iron Ore 11600N 11689N & 12912E 13030E from 558 to 575 mRL				
3	Number of active & Inative dumps	01	01	0.000	No Violation	Backfilling Dump in Bamebari	Nil
4	Number of dead dumps	07	07	0.000	No Violation	Bamebari:3 Nos. Joribar: 2 Nos. Bonaikela: 2 Nos	Nil
5	Number of dumps proposed for stabilished	0	0	0.000	No Violation	Nil	Nil
6	Stabilization Technique (Terracing, plantation, geo-textiles etc.)	Plantation	Plantation	0	No Violation	Nil	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	Bamebari Back filling of quarry within the extent of 2320N - 2730N & 3267E - 3543E from 590 mRL to 620 mRL	Bamebari 2182N-2494N & 3047E-3433E from 577 mRL to 593 mRL	Not done	No Violation	No separate violation of Rule 11(1) issued as violation of Rule 11(1) already issued for not achieving the targeted backfilling.	Nil
2	Year-wise area under backfilling of mined out area	4.0	0.141	3.859	Rule 11(1)	Nil	Nil
3	Year-wise topsoil generation, Utilization and Stored proposal (in m3)	10834	0	10834.000	No Violation	No separate violation of Rule 11(1) issued as violation of Rule 11(1) already issued for not achieving the targeted production and hence less land degradation.	Nil
4	Total area fully reclaimed & rehabilitated	0	0	0.000	No Violation	Nil	Nil
5	Locations of proposed reclamation & rehabilitated	0	0	0.000	No Violation	Nil	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	Remark	Remark File
1	Compliance on reclamation and rehabilitation by backfilling/Other means  Total area and numbers of plantation proposed.	0	0	0.000	No Violation	Nil	Nil
2	Rehabilitation by making water reservoir	0	0	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	0	0	0.000	No Violation	Nil	Nil
4	Compliance of Environmental monitoring (core zone & buffer zone)	Monitoring of Ambient Air Quality in core zone and Buffer zone as per the Standard. Monitoring of Quality of Surface Water, Ground Water, Drinking Water & Wastewater. Noise level to be monitored on	Carried out as proposed	0	No Violation	Carried out by third party S.K. Mitra	Nil

		quarterly basis. Blast Vibration: At the time of blasting.					
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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 proposed within lease area.	Grade-wise sorting carried out within lease area.	0	No Violation	Manual sorting activities of Manganese Ore are done within lease area.	Nil
2	Different grade of mineral sorted out at mines	Chemical Grade - (Mn> 48% & Fe< 4%) (+10 -75mm, +6 -25mm, -10mm ) High Grade - (Mn>46%) (+10 -75mm, +6 -25mm, -10mm ) Medium Grade - (Mn>35% & Mn< 46%) (+10 -75mm, +6 -25mm, -10mm ) Low Grade - (Mn >25% & < 35%) (+10 -75mm, +6	Chemical Grade - (Mn> 48% & Fe< 4%) (+10 -75mm, +6 -25mm, -10mm ) High Grade - (Mn>46%) (+10 -75mm, +6 -25mm, -10mm ) Medium Grade - (Mn>35% & Mn< 46%) (+10 -75mm, +6 -25mm, -10mm ) Low Grade - (Mn >25% & < 35%) (+10 -75mm, +6	0	No Violation	Nil	Nil

		-25mm, -10mm ) Sub Grade/MR- (Mn> 10% & Mn < 25%)	-25mm, -10mm ) Sub Grade/MR- (Mn> 10% & Mn < 25%)				
3	Any beneficiation process at mines	Not proposed	Not Carried out	0	No Violation	Nil	Nil
5	Utilization of Mineral Rejects or Sub-grade (Blending at ROM stage, Blending after Processing etc.)	0	0	0.000	No Violation	Nil	Nil

### 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	Proposed	Not Carried out	Not carried out	No Violation	No separate violation issued as violation of Rule 11(1) already issued for not achieving targeted production thus less land degradation.	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	No such proposal	Nil
3	Phased restoration, reclamation and rehabilitation of lands affected by	0	0	0.000	No Violation	Nil	Nil

	mining operations (Pits, dumps etc)						
4	Plantation & Survival rate	6000, 85% survival	2660, 92% survival	Not done	No Violation	1. Bamebari Back filling site could not be matured for plantation due to less generation of Waste on account of no fresh EC for enhanced rate and no Stage – II FC. 2. Waste Dump at Joribar could not be extended due to want of Stage – II FC.	Nil
5	Water sprinkling on roads to control airborne dust	Proposed	Carried out	0	No Violation	Water Tanker of 8KLD used for water sprinkling	Nil

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**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	To be submitted in time	All returns and notices submitted within time period.	0	No Violation	Nil	Nil
2	Appointment of Mining Engineer & Geologist as per provisions of Rule 55 of MCDR,2017	Mining Engineer and Mining Geologist to be appointed.	Mining Engineer and Mining Geologist observed appointed.	0	No Violation	Mining Engineer- Alok Singh Sardar Mining Geologist- Sangeeth G	Nil
3	Whether incomplete or false or wrong returns submitted (Rule 45(7))	Incomplete or false or wrong returns not be submitted	Incomplete or false or wrong returns submitted	Incomplete or false or wrong returns submitted	Rule 45(7)	Nil	Nil
4	Status of Approval of FMPCP u/r 24, 25 of MCDR,2017	0	0	0.000	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	Ex Mine price and production cost - Rs 5645.03	Appears to be correct	0	No Violation	Nil	Nil

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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	04	04	0.000	No Violation	Nil	Nil

**Part-III : Other Reports****3.1.1 : Upload Other Reports**

S.N.	Reports File	Remark   File Description
1	<a href="#">Signed VL Bamebari.pdf</a>	VL issued through Eoffice

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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	Remark	Remark File
1	Exploration : Lateral exploration status for the lease area-G2	91.289	0	91.289	Rule 12(4)	All area not converted under G-1.	Nil
2	Development - Opencast : Location of development w.r.t. lease area	Bamebari - 1438N - 1717N & 2985E - 3354E from 516 to 588 mRL (New Pit) Joribar - 11270N-11635N & 12490E-12871E from 492 mRL to 612 mRL Bonaikela -No Proposal	Bamebari No development carried out. Joribar - 11282N-11498N & 12450E-12789E from 503 mRL to 570 mRL Bonaikela - No development carried out during the year	Not carried out as per proposal in Bamebari	Rule 11(1)	Nil	Nil
3	Exploitation - Opencast Mine : Quantity of ROM mineral production proposed (in T)	575600	82939.137	492660.863	Rule 11(1)	Nil	Nil
4	Solid Waste Management - Backfilling (Opencast) : Year-wise area under backfilling of mined out area	4.0	0.141	3.859	Rule 11(1)	Nil	Nil
5	Annual Return : Whether incomplete or false or wrong returns submitted (Rule 45(7))	Incomplete or false or wrong returns not be	Incomplete or false or wrong returns submitted	Incomplete or false or wrong returns submitted	Rule 45(7)	Nil	Nil

		submitted					
6	Exploration: Lateral exploration status for the lease area-G2	91.289	0	91.289	Rule 12(4)	Nil	Nil
7	Development - Opencast: Location of development w.r.t. lease area	Bamebari - 1438N - 1717N & 2985E - 3354E from 516 to 588 mRL (New Pit) Joribar - 11270N-11635N & 12490E-12871E from 492 mRL to 612 mRL Bonaikela -No Proposal	Bamebari No development carried out. Joribar - 11282N-11498N & 12450E-12789E from 503 mRL to 570 mRL Bonaikela - No development carried out during the year	Not carried out as per proposal in Bamebari	Rule 11(1)	Nil	Nil
8	Exploitation - Opencast Mine: Quantity of ROM mineral production proposed (in T)	575600	82939.137	492660.863	Rule 11(1)	Nil	Nil
9	Solid Waste Management - Backfilling (Opencast): Year-wise area under backfilling of mined out area	4.0	0.141	3.859	Rule 11(1)	Nil	Nil
10	Annual Return: Whether incomplete or false or wrong returns submitted (Rule 45(7))	Incomplete or false or wrong returns not be submitted	Incomplete or false or wrong returns submitted	Incomplete or false or wrong returns submitted	Rule 45(7)	Nil	Nil

Esigned by:  VIKRAM DESHPANDE  
Date: 22/08/2025 04:30:36 PM