



**The Member Secretary
State Pollution Control Board, Odisha
Paribesh Bhawan
A/118, Nilakantha Nagar, Unit - VIII
Bhubaneswar - 751012**

MD/ ENV/ 229 / 120 / 2026
Date: 21st September 2026

**Sub: Environmental Statement of Katamati Iron Mine, Tata Steel Limited
for 2025-26.**

Dear Sir

Kindly find attach herewith the Environmental Statement in the prescribed format (Form V) as per "Environmental (Protection) Amendment Rules 1992" of our Katamati Iron Mine for your kind perusal.

Thanking you,

Yours faithfully
f: Tata Steel Limited

Area Manager (Environment), OMQ

Encl: As above

**Copy to: The Regional Officer, State Pollution Control Board, At:
Baniapata, College Road, Keonjhar - 758001, Odisha**

TATA STEEL LIMITED

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Tel 91 22 66658282 Fax 91 22 66657724

Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com

ENVIRONMENTAL STATEMENT 2025-26



**KATAMATI IRON MINE
TATA STEEL LIMITED**

September 2026

FORM - V
(See Rule -14)

ENVIRONMENT STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31st MARCH, 2026

KATAMATI IRON MINE, TATA STEEL LIMITED

PART-A

1	Name and address of the owner/ occupier of the industry, operation or process	:	Mr. D Vijayendra, Chief (Katamati) Katamati Iron Mine, Tata Steel Limited Po.: Noamundi, Dist.-West Singhbhum Jharkhand – 833217 Mr Ajay Kumar Goyal, Mines Manager (Katamati) Katamati Iron Mine, Tata Steel Limited Po.: Noamundi, Dist.-West Singhbhum Jharkhand – 833217
	Nominated Owner	:	Mr. Debasis Jena, General Manager, OMQ division, Administrative Building, Noamundi Iron Mine, Tata Steel Limited PO.: Noamundi, Dist.-West Singhbhum Jharkhand – 833217 Mr T V Narendran, CEO & Managing Director, Tata Steel Ltd, Bombay House, 24 Horni Mody Street, Fort, Mumbai 400 001
2	Industry Category	:	Open cast Iron Mining Industry (Major)
3	Production Capacity	:	Mine: 13.5 MTPA Iron Ore ROM Processing: 4 MTPA
4	Year of Establishment	:	1933
5	Date of last Environmental Statement submitted.	:	08th September 2025, vide letter no. MD/ENV/322/120/2025 for the year 2024-25.

PART-B

Water and Raw Material Consumption

(i) Water Consumption:

Consumption Head:	2024-25 (Annual Average) - (in m ³)	2025-26 In m ³ (Annual Average)
Process	Nil	Nil
Spraying in mine pit , services	326.92	313.15
Domestic	Nil	22.44
Name of the product	Process water consumption per product output (m3/MT)	
Iron Ore*	Nil	Nil

*Note: The mine has only mobile crushing & screening plant at pit head.

ii) Raw Material Consumption

The following items have been consumed/ utilized:

Name of Raw Materials		Name of Product	Consumption of Raw Materials	
			During previous financial year (2024-25)	During current financial year (2025-26)
High Speed Diesel		Iron Ore of steel grade	7651913 Litre	7706576 Litre
Lubricants			138151 Litre	123074 Litre
Grease			19797 Kg	15849 Kg
Explosive of all types	Slurry explosives		Small dia (up to 32mm) - Nil.	Small dia (up to 32mm) - Nil.

(Explosive, codex, detonator)			Large dia. (above 32 mm) -4158115 Kg	Large dia. (above 32 mm) - 4476050 Kg.
	Detonators		Ordinary - 0 Electrical -1373 nos.	Ordinary - 0 Electrical - 0 nos.
	Detonating Fuse		1500 Mts	0.0
	Others (specify) E.det, NONEL			64959 No.
Gas			0	0
Tyres			65 nos.	64 nos.
Drill rods			270nos.	583 nos.
Electric Power in KWH				
Consumed		Iron Ore of steel grade	48528634	3163380
Generated			0	0

PART-C

POLLUTION DISCHARGED TO ENVIROMENT/ UNIT OF OUTPUT (Parameters as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged (mass / day)	Concentration of of Pollutants discharges (mass / day)	Percentage of variation from prescribed standards with reasons
a) Water	<u>RUN OFF DISCHARGE</u> Ph 6.73-6.91 TSS 1393.62 Kg/Day 26.0 mg/l 74.0% Lower side		
a) Water	Katamati Iron Mine is an opencast iron mine with mobile crushing & screening plant for processing of the ore. At present, total water requirement is met from adjoining Noamundi Iron Mine of Tata Steel Limited (Mine is having valid permission from WRD). There is no wet processing of the mineral, hence no generation of tailings. Water is only used for dust suppression purpose. There is no separate workshop at Katamati. The effluent generated in the central workshop at Noamundi is handled and treated in the ETP. Treated water is reused for washing. Garland drains along with toe walls have been constructed all around the OB dump as well as Mineral Reject dump for management of surface runoff. Rainwater is allowed to accumulate in the lower-most benches of the mine quarry pit for recharge of ground water. A network of settling ponds and check dams exists in the downstream areas which are now being increased in number as well as size for proper management of surface runoff. Further all garland drains and settling ponds are de-silted as part of pre-monsoon preparations. The network of all these structures ensures that only clear water leaves the mine lease boundary. Wheel washing facility has been installed and is in operation near exit gate to arrest the dust due to transport activity. The water from this system is recycled back and sludge is being removed and stored in mine dump. There are no colonies within Katamati mine lease area. All the colonies are in the adjoining Noamundi mine lease area where there is adequate no. of STPs to treat the domestic wastewater. Further the domestic sewage generated in the mine pit office are treated in soak pit-		

	septic tank arrangement. The water quality data for the common STP/ETP located at Noamundi and surface water quality data is provided as Annexure 1.
Air	Wet drilling is practiced in Katamati Iron Mine with drills equipped with water injection system. Blasting is done using the controlled blasting technique. Dry fog system, fixed water sprinklers, mobile tankers and mist cannons are provided to prevent any fugitive emissions. 2 nos. of mobile tanker are in operation and fixed water sprinkler line of around 1.5 km has been installed from Gate-2 to pit office Katamati. Further, dust-cum-noise barrier is proposed to be installed around the crushing and screening plants to act as windbreaker as well as attenuate the noise level and keep it below the prescribed noise levels at the boundary of plant. A wheel washing facility has been installed at exit gate of mine to arrest and control the fugitive emission from mineral transportation. In addition to this all the trucks carrying ore through public roads are covered with tarpaulin. Three Continuous Ambient Air Quality Monitoring station (CAAQMS) are installed in core and buffer zone of Katamati area. Various air quality parameters such as PM10, PM2.5, SOx, NOx, CO etc. are monitored and the data of same is transmitted to State Pollution Control Board server online. The data of same is also being displayed publicly. A thick & dense vegetation is also placed in all surrounding the area which significantly reduced the pollution load. The average results of air quality monitoring is attached as annexure-2.

PART-D

HAZARDOUS WASTES

As specified under the Hazardous & Other Waste (Management & Trans boundary Movement) Rules, 2016 and amendment thereof

Hazardous Wastes	Total Quantity	
	During previous financial year (2024-25)	During current financial year (2025-26)
From Process		
• Used Oil	Nil	Nil
• Waste containing Oil (Jute etc.)	Nil	Nil
• Waste Used Batteries	Nil	Nil
• Discarded containers	Nil	Nil

PART-E

SOLID WASTES

Overburden waste is generated in the mine. All the overburden is stored in the designated place inside the mine as per the approved mining plan.

Sources	During previous financial year (2024-25)	During current financial year (2025-26)
a) From Process		
• From mining as Overburden	613948.70 m3	590620 m3
b) From Pollution Control Facility	Nil	Nil
c) i. Quantity recycled or reutilized within the unit	Nil	Nil

ii. Quantity sold	Nil	Nil
iii. Quantity disposed	Nil	Nil

PART-F

PLEASE SPECIFY THE CHARACTERISTICS (IN TERMS OF COMPOSITION AND QUANTUM) OF HAZARDOUS AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WASTES

In the Katamati Iron Mine, hazardous waste is generated mainly in the form of used oil during the maintenance of HEMMs at the common workshop located at Noamundi. The used oil is disposed to authorized agency as per the Hazardous Waste Management Rules. During handling and maintenance of HEMM, the oil-soaked materials (jute etc.) is being kept and disposed in impervious pit. The hazardous waste such as used batteries are sold to authorized agency.

All the hazardous waste generated is handled through a centralized system at Noamundi and disposed to authorized recyclers only.

PART-G

IMPACT OF POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION

- Katamati Iron Mine is a mechanized opencast iron mine with crushing & screening plant at pit head. For mineral conservation, various techniques followed, such as blending of subgrade materials, use of low grade ore etc. is being explored.
- Old slime stock is stored within the mine for its future use.
- For dust suppression, fixed & mobile dust suppression units are installed at Katamati Mine in haul roads.
- A wheel washing facility is also installed and commissioned at Katamati near exit gate to clean any dust attached to the tyres of vehicles.
- Check dams, siltation ponds, toe wall and garland drains are constructed as per approved mining plan.

PART-H

ADDITIONAL MEASURES/ INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT OF POLLUTION, PREVENTION OF POLLUTION

- The frequency of water spraying by mobile tanker along the approach roads to the entry-exit gate was reviewed and ensured to operate in all 3 shifts. The tanker sprays water on an average 9 trips/day. Water spraying by mobile tanker along public road from entry-exit gate to Deojhar (around 5 km) is being done in 3 shifts on an average of 8 trips/day.
- Covering of the entire width of approach road during water spraying was ensured and will be maintained always.
- Dust-cum-noise barrier is proposed to be installed around the crushing and screening plants to attenuate the noise level and keep it below the prescribed noise levels at the boundary of plant.
- All the high-mast lights are focused towards the mine area only by way of protective barrier.
- The OB dumps are developed as per the applicable guidelines – proper benching, dump angle, toe walls and garland drains, etc. Stability of waste dumps is ensured to prevent soil erosion. The dump stability is maintained as per the recommendation of CSIR-CIMFR. Geo-

textile/ coir matting is opted for the dumps which have adverse conditions like steep slopes; further rows of vetiver grasses are planted.

- Various toe wall, garland drains are made as per progressive mining plan. The capacity of these settling ponds are being increased to enable the accumulation of more water.

PART-I

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF THE ENVIRONMENT

Katamati Iron Mine of Tata Steel Limited is a captive mine and is certified for the Integrated Management System (ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018) from last two decades.

The unit is having a full-fledged Environmental Management department with well qualified personnel from environmental background to take care of all aspects relating to mines and processing plant of unit.

Various awareness programs throughout the year are conducted in the area which includes celebration of World Environment Day, World Water Day, Mine Environment & Mineral Conservation Week, Annual Flower & Vegetable Show etc.



Area Manager (Environment), OMQ

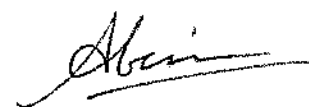
WATER QUALITY DATA 2025-26
Katamati Iron Mine
(Annual Average)

Parameters	EFFLUENT TREATMENT PLANT		Standard
	ETP 30 KLD(Mega centre)		
	Inlet	Outlet	
pH*	6.9	7.49	5.5-9.0
TSS (mg/l)	101.1	51.12	100
BOD 5 days (mg/l)	39.25	20.00	30
COD (mg/l)	253.4	141.92	250
Oil & Grease (mg/l)	BLQ (LOQ-4)	BLQ (LOQ-4)	10
Iron (mg/l)	2.84	1.71	3.0
Faecal Coliform	207.63	92.75	-

Note: BDL – Below detection limit.

WATER QUALITY DATA 2025-26
Katamati Iron Mine
(Annual Average)

Parameters	SURFACE WATER				Standard
	Jojo Nalla Upstream	Jojo Nalla Downstream	Mahadev Nallah (Murga Nallah) Upstream	Mahadev Nallah (Murga Nallah) Downstream	
pH*	6.88	6.91	6.7	6.73	5.5-9.0
DO (mg/l)	5.05	4.6	5.15	4.55	
TSS (mg/l)	30.5	27.5	30.0	24.5	100
BOD 5 days (mg/l)	2.56	2.25	2.68	2.46	30
COD (mg/l)	6.47	5.7	7.76	7.08	250
Iron (mg/l)	0.38	0.33	0.44	0.38	0.5
Total Coliform	Absent	Absent	Absent	Absent	5000



Annexure - II

AIR QUALITY DATA 2025-26
Annual Average Air quality of Katamati Iron Mine of FY'26

Pollutants	Concentration of pollutants ($\mu\text{g}/\text{m}^3$)	Standards ($\mu\text{g}/\text{m}^3$)
Near Murga Gate		
1. PM_{10}	63.66	100
2. $\text{PM}_{2.5}$	25.46	60
3. SO_2	13.00	80
4. NO_x	20.93	80
5. CO	BLQ (LOQ-0.5)	4*
Near OB Dump		
1. PM_{10}	64.47	100
2. $\text{PM}_{2.5}$	24.85	60
3. SO_2	12.96	80
4. NO_x	18.91	80
5. CO	BLQ (LOQ-0.5)	4*
Near Viewpoint		
1. PM_{10}	63.90	100
2. $\text{PM}_{2.5}$	24.13	60
3. SO_2	11.08	80
4. NO_x	17.89	80
5. CO	BLQ (LOQ-0.5)	4*
Near Pit Office		
1. PM_{10}	63.85	100
2. $\text{PM}_{2.5}$	24.78	60
3. SO_2	12.34	80
4. NO_x	19.26	80
5. CO	BLQ (LOQ-0.5)	4*

