FORM – V (See rule – 14)

Environmental Statement for the financial year ending the 31st March -2026
Bhelatand A. Colliery & Integrated Washery

PART – A

1.Name and address of the owner/ occupier of the : industry/ operation or process **Manager :** **Nominated Owner :**	**Bhelatand A. Colliery & Integrated Washery** **Mr. Manoj Kumar** Head, Bhelatand A. Colliery Tata Steel Limited., P.O.- Bhelatand Dist.- Dhanbad, Jharkhand-828103 **Mr. T.V. Narendran** CEO&MD, Tata Steel Limited Jamshedpur, Dist- East Singhbhum Jharkhand – 831 001
2.Industry category: Primary (STC Code) Secondary (STC Code)	--
3.Production Capacity – Units	**Colliery**: 0.41 MTPA Raw Coal **Washery:** 1.5 MTPA Raw coal feed
4.Year of Establishment	**Colliery**: 1910 **Washery:** 1995
5.Date of the last environmental statement submitted	**Colliery & Washery** 30th September 2025 (Vide Letter No. JMB/ENV/ESSA/05/442/2025)

PART – B

Water and Raw Material Consumption

1. **Water Consumption M^3 / day.**

Bhelatand A. Colliery		
	Water consumption in 2024-2025	**Water consumption in 2025-2026**
Process	Not Applicable	Not Applicable
Industrial	6.61 M^3/day	6.27 M^3/day
Domestic	823.22 M^3/day	825.23 M^3/day
Bhelatand Coal Preparation Plant		
Process	438.24 M^3 / day	434.65 M^3 / day
Cooling	Not Applicable	Not Applicable
Domestic*	1 M^3 / day	1 M^3 / day

**The domestic water consumption in colonies has been considered in Bhelatand A. Colliery.*

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Bhelatand A. Colliery & Integrated Washery

Sl. No	Name of the products	Process water consumption per unit of product output.	
		During the previous financial year 2024-2025	During the current financial year 2025-2026
Bhelatand A. Colliery			
1.	Raw Coal	Not Applicable	Not Applicable
Bhelatand Coal Preparation Plant			
1.	Clean Coal	0.39 M3/Ton	0.27 M3/Ton

2. **Raw Material Consumption**

Sl. No	Name of the Raw Material	Name of the product	Raw Materials consumption per unit production output.	
			During the previous financial year 2024-2025	During the current financial year 2025-2026
Bhelatand A. Colliery				
1.	Explosives	Raw Coal	0.27 Kg/Ton	0.36 Kg/Ton
2.	Detonators		0.55 Nos/Ton	0.68 Nos/Ton
Bhelatand Coal Preparation Plant				
1.	Raw Coal	Clean Coal	1.69 trc/tcc	1.8 trc/tcc
2.	Magnetite		1.23 kg/ton	0.94 kg/ton

***trc stands for Total Raw Coal & tcc stands for total clean coal**

PART – C

Pollution discharged to environment / unit of output.

(Parameter as prescribed in the consent issued)

Sl. No	Pollution	Quantity of pollutants discharged (mass/ day)								Percentage of variation from prescribed standard with reason.
A.	AIR	PM_{10} Level : 24 Hourly Limit- 100µg/m³	$PM_{2.5}$ Level : 24 Hourly Limit- 60µg/m³	SO2 Level: 24 Hourly Limit- 80µg/m³	NO2 Level: 24 Hourly Limit- 80µg/m³					Ambient air quality is being measured and all values are within limits as per NAAQS, 2009. The values indicated here are the average value of quarterly reports of FY26 conducted by 3rd party NABL accredited laboratory.
		81.77	50.99	18.26	38.44					
B.	WATER	Parameter		Results (Colliery)	Results (Washery)	UOM	Limit			The quality of mine water is being measured in-house on monthly basis and
		pH		7.78	8.06	pH	5.5-9.0			

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Bhelatand A. Colliery & Integrated Washery

		Total Suspended Solid	18.50	19.5	mg/ltr.	100	quarterly through NABL accredited 3rd party laboratory. Average value from the quarterly report for FY26 is provided here. Washery is Zero water discharge (Closed water circuit system) unit. The analysis of water in the final settling tank is done monthly.
		Total Dissolved Solid	677.75	682	mg/ltr.	2100	
		Biological Oxygen Demand	2.33	2.4	mg/ltr.	30	
		Chemical Oxygen Demand	31.45	80	mg/ltr.	250	
		Oil & Grease	2.80	2.5	mg/ltr.	10	

The unit does not have any single point source of air pollution. Hence, quantitative estimation of air pollutants discharged in Kg/day cannot be ascertained.

PART – D

Hazardous Wastes

(as specified under The Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016)

Sl No	Hazardous Waste	Total Quantity (Kg.)	
		During the previous financial year 2024-2025	During the current financial year 2025-2026
1.	From process Used Oil Used Batteries (Cap lamp battery)	 Colliery: 2093.3 Kgs Washery: Nil Washery: 62 Nos Colliery: Nil	 Colliery: Nil Washery: Nil Washery: Nil Colliery: 600 Nos
2.	From pollution control facility	-	

PART – E

Solid Wastes

Sl No	Solid Wastes	Total Quantity (Kg.)	
		During the previous financial year 2024-2025	During the current financial year 2025-2026
1.	Steel Scrap and other materials (conveyor belt, cable pieces waste) collected from U/G mines.	307.73 Ton	255.13 Ton
2.	From process a. Tailing	108414.0 Ton	152637 Ton
3.	(i) Quantity recycled or reutilized within the unit/sold/disposed	All tailings sold to institutionalized customers and scrap sold to dealers	All tailings sold to institutionalized customers and scrap sold to dealers

FORM – V (See rule – 14)

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Bhelatand A. Colliery & Integrated Washery

PART – F

Please specify the characterization (in term of composition and quantum) of hazardous as well as solid wastes and indicate disposal practices adopted for both these categories of wastes.

Category of Waste	Characteristics	Quantity	Disposal Practice
Solid Waste			
1. Steel Scrap and other materials	Solid	255.13 Ton	Steel scrap and other solid wastes are sent to central scrap yard for segregation and disposal to vendors.
2. Tailings	Coal of -0.5mm size (Solid)	152637 Ton	All tailings sold to institutionalized customers.
Hazardous Waste			
1. Used Oil	Used Oil (Liquid)	Nil	Generally, hazardous wastes are disposed off to registered recyclers according to applicable Hazardous Wastes Management Rules.
2. Used Batteries	Used Battery (Cap lamp battery)	600 Nos	

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

S. No.	Environment Management Activity	Expenditure (Lakh)
1	Stowing activities i.e filling of U/G voids for surface protection and prevention of subsidence	853.79
2	Fire Control measures (Fire/Isolation Stopping and Nitrogen plant)	36.00
3	Goaf Filling activities, drain repairing and maintenance, settling tank maintenance jobs	13.18
4	Water spraying costs in underground and surface	12.00
5	Cleaning & Bush cutting (House Keeping of areas)	10.78
6	Making potable water in Water Treatment Plant & Supply to colonies	78.41
7	Horticultural activities including lawn and garden maintenance	5.41
8	Plantation of saplings and maintenance	
9	Environmental Monitoring and scientific studies	7.32
10	Operation and maintenance of ETP/STP	8.99
	Total Cost incurred	**1025.88**

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Bhelatand A. Colliery & Integrated Washery

Bhelatand A. Colliery:

Total annual expenditure incurred towards environmental protection is Rs. **1025.88 lakhs**

Annual raw coal production of the plant during the year is **2.274 lakh tones.**

So, the impact of the pollution abatement measures, and environment protection shall be **Rs. 451.13 per ton** of raw coal production.

Bhelatand Coal Preparation Plant:

S.No.	Environment Management Activity	Expenditure (Lakh)
1	Tailings Management System including recycling	60.00
2	Dust suppression system (Dry fog system)	14.00
3	Operation and maintenance of Dust extraction system	10.00
4	Housekeeping measures includes removing spillage, improvement of roads, mechanical sweeper etc	68.00
5	Mechanical dewatering system	6.00
6	Fixing of Hosch Scraper and tru track idler for spillage control of conveyor belt	12.00
7	Water sprinkling activities	6.00
8	Any additional measures for Environment Management	6.00
9	Horticultural activities including green belt development and regular lawn and garden maintenance	5.41
10	Operation and maintenance of ETP/STP	8.99
11	Environmental Monitoring and scientific studies	5.54
	Total Cost incurred	**201.94**

Total annual expenditure incurred towards environmental protection is **Rs. 201.94 lakhs**.

Annual clean coal production of the plant during the year is **5.76** lakh tonnes.

So, the impact of the pollution abatement measures, and environment protection shall be 35.06 Rs/ ton of clean coal production.

PART – H

Additional measures/ investment proposals for environmental protection including abatement of pollution, prevention of pollution

Jharia Division of Tata Steel Limited is committed to improve safety and environment by strictly practicing Environmental Management System of company.

Various programs are arranged such as World Environmental day, Sustainability Month, Annual Flower Show, Green school Project, Tata volunteering week etc for public awareness. Also, various initiatives for biodiversity enhancement in the region have been taken such as Bird Niche Nesting, Development of Butterfly garden, Medicinal Garden, Nursery development of native species, etc. Tree plantation will be continued in the leasehold area. Water pumped out of the mine will continue to be used in washery other than use in stowing.

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Bhelatand A. Colliery & Integrated Washery

Sewage Treatment Plant has been installed of 200 KLD & 50 KLD capacity for treatment of domestic sewage. Two STPs of 10 KLD each have been installed in canteen of Bhelatand Colliery and Sijua Colliery. Regular operation and maintenance is being done to ensure optimum performance of plant.

PART – I

Any other particulars for improving the quality of environment

- We are providing safe drinking water by treating the mine dewatering water through our water treatment plant & MADA supply water to our employees.
- We regularly sprinkle water in and around the units to suppress dust.
- We have provided dust masks for our employees to prevent exposure to dust in underground mines.
- Our welfare department arranges to clean the domestic garbage from our colonies to provide better environment.
- Regular monitoring of Air Quality & mine water analysis by our separate environment management cell.
- We have developed green belts and parks/gardens with massive tree plantation, and this is a continuous process in company leasehold areas.
- Regular thrust on Environment awareness conducting training classes at P.T.I., Jamadoba.
- We are an IMS certified unit (ISO 9001:2015, 14001:2015 and 45001:2018 certified) along with SA: 8000 (Social Accountability).

Name of Unit – Bhelatand A. Colliery & Integrated Washery

Head Bhelatand A. Colliery
Tata Steel Limited

MANAGER
TATA STEEL LTD.
BHELATAND A. COLLIERY