The Member Secretary,
Jharkhand State Pollution Control Board,
T.A. Bhawan, H.E. C. Campus, Dhurwa,
Ranchi, 834004, Jharkhand.

Ref. No. - JMB/ENV/ESSA/05/380/2026

September 29th, 2026

Sub: Submission of Annual Environment Statement in Form V for the FY-26.

Dear Sir,

We are enclosing herewith Annual Environment Statement in Form-V for the FY-26 in respect of **Jamadoba Coal Washery** of M/s Tata Steel Limited, Jharia Division for your kind perusal.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully,
For Tata Steel Limited

Head (Planning)

CC: Regional Officer, Dhanbad, Jharkhand State Pollution Control Board, H.I.G. -1 Sardar Patel Nagar, Housing Colony Hirapur, Dhanbad, Jharkhand.

TATA STEEL LIMITED
Jharia Collieries Jamadoba 828 112 Dhanbad India
Tel 91 326 2320263/2320265/2320267 Fax 91 326 2320268
Regd. Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001
Tel 91 22 66658282 Fax 91 22 66657724
Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com

FORM – V (See rule – 14)

Environmental Statement for the financial year ending the 31st March -2026

Jamadoba Coal Washery

PART – A

1.Name and address of the owner/ occupier of the : industry/ operation or process	**Jamadoba Coal Washery**
Head :	**Mr. Prasenjit Samanta** Head, Jamadoba Coal Washery Tata Steel Limited, P.O.- Jamadoba Dist.- Dhanbad, Jharkhand-828112
Nominated Owner :	**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	2.0 MTPA Clean coal
4.Year of Establishment	1952
5.Date of the last environmental statement submitted	30th September 2025 (Vide Letter No. JMB/ENV/ESSA/05/446/2025)

PART – B

Water and Raw Material Consumption

1. Water Consumption M^3 / day.

	Water consumption in 2024-2025	**Water consumption in 2025-2026**
Process	510.33 M^3 / day	517.06 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 Jamadoba Colliery.*

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**
1.	Clean Coal	0.31 M^3/Ton	0.29 M^3/Ton

FORM – V (See rule – 14)

Environmental Statement for the financial year ending the 31st March -2026

Jamadoba Coal Washery

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
1.	Raw Coal	Clean Coal	2.05 trc/tcc	2.12 trc/tcc
2.	Magnetite		2.07 kg/ton	1.60 kg/ton

***Industries may use codes if disclosing details of raw materials would violate contractual obligation, otherwise all industries have to name the raw materials used.**

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)		Concentration of pollutants in discharges (Mass/Volume)		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	SO_2 Level: 24 Hourly Limit- 80µg/m³	NO_2 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.
		79.56	47.11	18.71	31.25	
B.	WATER	Zero water discharge (Closed water circuit system). The analysis of water in the final settling tank is as follows:				All values are within limits. Average value from the quarterly report for FY26 is provided here.

Parameter	Results	Measurement	Limit
pH	7.7	pH	5.5-9.0
Total Suspended Solid	20.0	mg/ltr.	100
Total Dissolved Solid	586.7	mg/ltr.	2100
Biological Oxygen Demand	9.5	mg/ltr.	30
Chemical Oxygen Demand	46.0	mg/ltr.	250
Oil & Grease	2.4	mg/ltr.	10

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

FORM – V (See rule – 14)

Environmental Statement for the financial year ending the 31st March -2026

Jamadoba Coal Washery

PART – D

Hazardous Wastes

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

Sl No	Hazardous Waste	Total Quantity	
		During the previous financial year 2024-2025	During the current financial year 2025-2026
1.	From process Used Oil Lead Acid Battery/12 V	 6083.8 Kgs 74 Nos	 5926.62 Kgs Nil
2.	From pollution control facility	-	-

PART – E

Solid Wastes

Sl No	Solid Wastes	Total Quantity	
		During the previous financial year 2024-2025	During the current financial year 2025-2026
1.	From process a. Tailings b. Scrap materials	 12806.4 Ton 139.32 Ton	 261470.50 Ton 361.36 Ton
2.	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

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. Tailings	Tailing	261470.50 Ton	All tailings sold to institutionalized customers.
2. Steel Scrap and other materials	Solid	361.36 Ton	Steel scrap is sold off to vendors.
Hazardous Waste			
1. Used Oil	Used Oil (Liquid)	5926.62 Kgs	Disposed off to authorized recycler.
2. Used Battery	Used Battery (Solid)	Nil	

FORM – V (See rule – 14)

Environmental Statement for the financial year ending the 31st March -2026

Jamadoba Coal Washery

PART – G

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

Jamadoba coal washery of Tata Steel Limited is an ISO 9001:2015, 14001:2015 and ISO 45001 unit, entire coal washing is done by eco-friendly way by using standard practice. Dry-fog system has been already installed to suppress the dust generated at CHP and transfer points of belt conveyor systems, and it is being always operated to check fugitive emissions. Adequate fixed-type water sprinklers are also installed at the internal roads of the washery.

S.No.	Environment Management Activity	Expenditure in Lakhs
1	Tailings Management System including recycling	399.50
2	Dust suppression system (Dry fog system)	26.40
3	Operation and maintenance of Dust extraction system	5.00
4	Fixing of Hosch Scraper and tru track idler for spillage control of conveyor belt	15.00
5	Housekeeping measures includes removing spillage, improvement of roads, mechanical sweeper etc	115.2
6	Mechanical dewatering system	48.90
7	Water sprinkling activities	21.30
8	Horticultural activities including green belt development and regular lawn and garden maintenance	17.65
9	Plantation of saplings and maintenance	0.78
10	Operation and maintenance of ETP/STP	11.02
11	Environmental Monitoring and scientific studies	5.70
	Total Cost incurred	**666.45**

Total annual expenditure incurred towards environmental protection is **Rs. 666.45 lakhs**.

Annual clean coal production of the plant during the year is **6.49 lakh ton**.

So, the impact of the pollution abatement measures, and environment protection shall be INR **102.69.**

PART – H

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

Fixed type water spraying system inside washery complex is being operated. Further, fixed type water sprinklers are installed in internal transporting roads to minimize the dust generation. Wheel washing system was installed for outgoing vehicles to wash the material from tyers. Dust extraction system is being commissioned in washery expansion project to control the air pollution. Various programs are arranged such as World Environmental day, World Earth Day, International Day for Biological Diversity, Annual Flower Show 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 from the mine is being used in washery other than use in stowing. One ETP of 10 KLD has been installed for canteen wastewater treatment. Dust extraction system has been installed to suppress dust at source of generation. Mechanical sweeper, mist canon, mechanical tailing dewatering plants are major pollution control methods.

FORM – V (See rule – 14)

Environmental Statement for the financial year ending the 31st March -2026

Jamadoba Coal Washery

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.
- All internal roads are being made concrete to minimize the dust generation and improve housekeeping.
- We have provided dust masks for our employees to prevent exposure to dust.
- 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 – Jamadoba Coal Washery

Head, Jamadoba Coal Washery
Tata Steel Limited.

Head
JAMADOBA WASHERY