



**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/ 565 /2024

September 27<sup>th</sup>, 2024

**Sub: Annual Environment Statement in Form-V for the FY-24.**

Dear Sir,

We are enclosing herewith Annual Environment Statement in Form-V for the FY-24 in respect of **Digwadih Colliery** 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**

*f-jit*

**Head (Planning)**

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

**TATA STEEL LIMITED**

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Tel 91 22 66658282 Fax 91 22 66657724  
Corporate Identity Number L27100MH1907PLC000260 Website [www.tatasteel.com](http://www.tatasteel.com)

**FORM – V (See rule – 14)**

**Environmental Statement for the financial year ending the 31<sup>st</sup> March -2024  
Digwadih Colliery**

**PART – A**

<b>1.Name and address of the owner/ occupier of the : industry/ operation or process</b>	<b>Digwadih Colliery</b>
<b>Manager</b> :	<b>Mr. Naveen Kumar</b> Area Manager, Digwadih Colliery Tata Steel Ltd., P.O.- Jealgora Dist.- Dhanbad, Jharkhand-828110
<b>Nominated Owner</b> :	<b>Mr. T.V.Narendran</b> CEO&MD, Tata Steel Ltd Jamshedpur, Dist- East Singhbhum Jharkhand – 831 001
<b>2.Industry category: Primary (STC Code) Secondary (STC Code)</b>	--
<b>3.Production Capacity – Units</b>	0.60 MTPA – Raw Coal
<b>4.Year of Establishment</b>	1918
<b>5.Date of the last environmental statement submitted</b>	29 <sup>th</sup> September 2023 (Vide Letter No.JMB/ENV/ESSA/05/738/2023)

**PART – B**

**Water and Raw Material Consumption**

**1. Water Consumption M<sup>3</sup> / day.**

	<b>Water consumption in 2022-2023</b>	<b>Water consumption in 2023-2024</b>
<b>Process</b>	Not Applicable	Not Applicable
<b>Industrial</b>	1.78 M <sup>3</sup> /day	0.58 M <sup>3</sup> /day
<b>Domestic</b>	1873.91 M <sup>3</sup> /day	1821.28 M <sup>3</sup> /day

<b>Sl. No</b>	<b>Name of the products</b>	<b>Process water consumption per unit of product output.</b>	
		<b>During the previous financial year 2022-2023</b>	<b>During the current financial year 2023-2024</b>
1.	Raw Coal	No production has been done from the colliery since Feb'21	

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**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 2022-2023	During the current financial year 2023-2024
1.	Explosives	Raw Coal	No production has been done from the colliery since Feb'21	
2.	Detonators		No production has been done from the colliery since Feb'21	

**\*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 <sub>10</sub> Level : 24 Hourly Limit- 100µg/m <sup>3</sup>	PM <sub>2.5</sub> Level : 24 Hourly Limit- 60µg/m <sup>3</sup>	SO <sub>2</sub> Level: 24 Hourly Limit- 80µg/m <sup>3</sup>	NO <sub>2</sub> Level: 24 Hourly Limit- 80µg/m <sup>3</sup>	Ambient air quality is being measured and all values are within limits as per NAAQS, 2009. The values represented here are the average values measured in the FY 24 by 3 <sup>rd</sup> party NABL accredited laboratory.
		82.40	49.30	19.50	28.6	
B.	WATER	Parameter	Results	Unit of measure	Limit	The quality of mine water is being measured on monthly basis and all values are within the limits. Average value for FY24 is provided here.
		pH	7.425	pH	5.5-9.0	
		Total Suspended Solid	34.75	mg/ltr.	100	
		Total Dissolved Solid	865.5	mg/ltr.	2100	
		Biological Oxygen Demand	2.2	mg/ltr.	30	
		Chemical Oxygen Demand	56.9	mg/ltr.	250	
		Oil & Grease	BDL	mg/ltr.	10	

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

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**Environmental Statement for the financial year ending the 31<sup>st</sup> March -2024  
Digwadih Colliery**

**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 2022-2023	During the current financial year 2023-2024
1.	From process Used Oil Used Cap lamp Battery	1085.7 Kgs (L) 2577 Nos	Nil 63 Nos
2.	From pollution control facility	-	-

**PART – E**

**Solid Wastes**

Sl No	Solid Wastes	Total Quantity (Kg.)	
		During the previous financial year 2022-2023	During the current financial year 2023-2024
1.	Steel Scrap and other materials (conveyor belt, cable pieces waste) collected from U/G mines.	42.17 Ton	Nil
2.	Quantity recycled or reutilized within the unit/ sold/ disposed	All wastes sold to recyclers	-

**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
<b>Solid Waste</b> 1. Steel Scrap and other materials	Solid	Nil	-
<b>Hazardous Waste</b> 1. Used Oil	Used Oil (Liquid)	Nil	-
2. Used Cap Lamp Battery	Battery(Solid)	63 Nos	Battery wastes are sold off to authorized recycler

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**Digwadih Colliery**

**PART – G**

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

<b>S. No.</b>	<b>Environment Management Activity</b>	<b>Expenditure in Lakhs</b>
1	Stowing activities i.e filling of U/G voids for surface protection and prevention of subsidence	36.33
2	Fire Control measures (Fire/Isolation Stopping and Nitrogen plant)	51.83
3	Goaf Filling activities, Drain repairing and maintenance, settling tank maintenance jobs	10.63
4	Water spraying costs in underground and surface	0.00
5	Making potable water in Water Treatment Plant & Supply to colonies	190.36
6	Horticultural activities including green belt development and regular lawn and garden maintenance	16.80
7	Plantation of saplings and maintenance	0.7667
8	Water quality management	7.25
9	Environmental Monitoring and studies	7.37
	<b>Total Cost incurred</b>	<b>321.33</b>

Total annual expenditure incurred towards environmental protection is **Rs. 321.33 lakhs.**

No production has been done from the colliery since Feb'21. Hence, annual raw coal production of the plant during the year was nil.

**PART – H**

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

Jharia Division of Tata Steel Ltd. is committed to improve safety and environment by strictly practicing Environmental Management System of company. 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 of the mine will continue to be used in washery other than use in stowing. Four Effluent Treatment Plants based on MBBR technology have been commissioned with capacity of 10 KLD each for canteen wastewater at JCPP, 2-Pit, workshop effluents treatment & TMH. Three

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**Digwadih Colliery**

STP of 50 KLD, 60 KLD and 30 KLD has been installed for sewage treatment of residential colonies. Two continuous ambient air quality monitoring system and one PM 10 station has also been installed in the area.

**PART – I**

**Any other particulars for improving the quality of environment**

1. We are providing safe drinking water from our water treatment plant & MADA to our employees.
2. We are regularly sprinkling water in an around the units, to suppress dust.
3. We provide dust mask to our employees to prevent exposure to dust in underground mines.
4. Our welfare department arranges to clean the domestic garbage from our colonies to provide better environment.
5. Regular monitoring of Air Quality & mine water analysis by our separate environment management cell.
6. We have already done the tree plantation job and this is a continuous process in company leasehold areas.
7. Regular thrust on Environment awareness conducting training classes at P.T.I., Jamadoba.
8. We are an IMS certified unit (ISO 9001:2015, 14001:2015 and 18001:2018 certified) along with SA: 8000 (Social Accountability).

**Name of Unit – Digwadih Colliery**



**Area Manager  
Tata Steel Limited**

**Manager  
DIGWADIH COLLIERY**