



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/ 738 /2023

September 29th, 2023

Sub: Annual Environment Statement in Form V for the FY-23.


Dear Sir,

We are enclosing herewith Annual Environment Statement in Form-V for the FY-23 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


Head (Planning)

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

FORM – V (See rule – 14)**Environmental Statement for the financial year ending the 31st March -2023****Digwadih Colliery****PART – A**

1.Name and address of the owner/ occupier of the : industry/ operation or process	Digwadih Colliery
Manager :	Mr. Narendra Kumar Gupta Chief Jamadoba Group Tata Steel Ltd., P.O.- Jealgora Dist.- Dhanbad, Jharkhand-828110
Nominated Owner :	Mr. T.V.Narendran CEO&MD, Tata Steel Ltd Jamshedpur, Dist- East Singhbhum Jharkhand – 831 001
2.Industry category: Primary (STC Code) Secondary (STC Code)	--
3.Production Capacity – Units	0.60 MTPA – Raw Coal
4.Year of Establishment	1918
5.Date of the last environmental statement submitted	28 th September 2022 (Vide Letter No.JMB/ENV/ESSA/05/715/2022)

PART – B**Water and Raw Material Consumption****1. Water Consumption M³ / day.**

	Water consumption in 2021-2022	Water consumption in 2022-2023
Process	Not Applicable	Not Applicable
Industrial	0.55 M ³ /day	1.78 M ³ /day
Domestic	1782.09 M ³ /day	1873.91 M ³ /day

Sl. No	Name of the products	Process water consumption per unit of product output.	
		During the previous financial year 2021-2022	During the current financial year 2022-2023
1.	Raw Coal	No production has been done from the colliery since Feb'21	

FORM – V (See rule – 14)**Environmental Statement for the financial year ending the 31st March -2023**
Digwadih Colliery**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 2021-2022	During the current financial year 2022-2023
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.
		PM ₁₀ Level : 24 Hourly Limit- 100µg/m ³	PM _{2.5} Level : 24 Hourly Limit- 60µg/m ³	SO ₂ Level: 24 Hourly Limit- 80µg/m ³	NO ₂ Level: 24 Hourly Limit- 80µg/m ³		
A.	AIR	80.02	43.91	17.90	25.73		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 23 by 3 rd party NABL accredited laboratory.
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 FY23 is provided here.
		pH	7.6	pH	5.5-9.0		
		Total Suspended Solid	27.7	mg/ltr.	100		
		Total Dissolved Solid	686.8	mg/ltr.	2100		
		Biological Oxygen Demand	2.1	mg/ltr.	30		
		Chemical Oxygen Demand	46.5	mg/ltr.	250		
		Oil & Grease	0.7	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.

FORM – V (See rule – 14)

Environmental Statement for the financial year ending the 31st March -2023
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 2021-2022	During the current financial year 2022-2023
1.	From process Used Oil Used Cap lamp Battery	1948.6 L 0 Nos	1085.7 Kgs (L) 2577 Nos
2.	From pollution control facility	-	-

PART – E**Solid Wastes**

Sl No	Solid Wastes	Total Quantity (Kg.)	
		During the previous financial year 2021-2022	During the current financial year 2022-2023
1.	Steel Scrap and other materials (conveyor belt, cable pieces waste) collected from U/G mines.	131.06 Ton	42.17 Ton
2.	Quantity recycled or reutilized within the unit/ sold/ disposed	All wastes sold to recyclers	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
Solid Waste 1. Steel Scrap and other materials	Solid	42.17 Ton	Steel scrap and other solid wastes, which is mentioned here sent to central scrap yard for segregation and disposal to vendors.
Hazardous Waste 1. Used Oil 2. Used Cap Lamp Battery	Used Oil (Liquid) Battery(Solid)	1085.7 Kgs (L) 2577 Nos	Hazardous wastes are disposed off to registered recyclers according to applicable Hazardous Wastes Management Rules. Battery wastes are sold off to authorized recycler

FORM – V (See rule – 14)

**Environmental Statement for the financial year ending the 31st March -2023
Digwadih Colliery**

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 in Lakhs
1	Stowing activities i.e filling of U/G voids for surface protection and prevention of subsidence	12.35
2	Fire Control measures (Fire/Isolation Stopping and Nitrogen plant)	81.25
3	Goaf Filling activities, Drain repairing and maintenance, settling tank maintenance jobs	10.44
4	Water spraying costs in underground and surface	7.50
5	Making potable water in Water Treatment Plant & Supply to colonies	202.60
6	Horticultural activities including green belt development and regular lawn and garden maintenance	19.48
7	Plantation of saplings and maintenance	1.84
8	Water quality management	4.64
9	Environmental Monitoring and studies	8.64
	Total Cost incurred	348.74

Total annual expenditure incurred towards environmental protection is **Rs. 348.74 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, 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.

FORM – V (See rule – 14)

Environmental Statement for the financial year ending the 31st March -2023
Digwadih Colliery

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


**Chief Jamadoba Group
Tata Steel Limited
JAMADOBA GROUP
TATA STEEL LTD.**