

To,
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/ 898 /2020

September 28th, 2020

Sub: Annual Environment Statement in Form V for the FY-20.

Dear Sir,

We are enclosing herewith Annual Environment Statement in Form-V for the FY-20 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, HIG.-1 Sardar Patel Nagar, Housing Colony, Hirapur, Dhanbad (Jharkhand).

# Environmental Statement for the financial year ending the 31<sup>st</sup> March -2020 Digwadih Colliery

## PART – A

1.Name and address of the owner/ occupier of t industry/ operation or process	he:	Digwadih Colliery
Manager	:	Mr. Manoj Kumar Head(Digwadih Colliery) 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) Secon (STC Code)	ondary	
3.Production Capacity – Units		0.60 MTPA – Raw Coal
4.Year of Establishment	T.	1918
5.Date of the last environmental statement sub-	mitted	23 <sup>rd</sup> September 2019 (Vide Letter No.JMB/ENV/ESSA/05/524/2019)

## PART - B

### Water and Raw Material Consumption

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

	Water consumption in 2018-2019	Water consumption in 2019-2020
Process	Not Applicable	Not Applicable
Industrial	14.04 M³/day	14.72 M³/day
Domestic	1447.64 M³/day	1635.01 M³/day

Sl. No	Name of the products	Process water consumption per unit of product output.				
		During the previous financial year 2018-2019	During the current financial year 2019-2020			
1.	Raw Coal	Not Applicable	Not Applicable			

## Environmental Statement for the financial year ending the 31st March -2020 Digwadih Colliery

### 2. Raw Material Consumption

SI. No	Name of the Raw	Name of the	Raw Materials consumption per unit production output.		
	Material	product	During the previous financial year 2018-2019 During the current year 2019-20		
1.	Explosives		0.34 Kg/Ton	0.35 Kg/Ton	
2.	Detonators	Raw Coal	0.74 Nos/Ton	0.64 Nos/Ton	

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

 $\underline{PART-C}$  Pollution discharged to environment / unit of output.

### (Parameter as prescribed in the consent issued)

Sl. No	Pollution	Quantity o discharged (n		ollutants lay)	ay) pollutants in discharges			Percentage of variation from prescribed standard with reason.		
A.	AIR	PM <sub>10</sub> Level : 24 Hourly Limit- 100μg/m <sup>3</sup> 84.26	: 24 L 60	Level Hourly imit- μg/m <sup>3</sup>	24	2 Level: Hourly Limit- 0μg/m <sup>3</sup>	2	O2 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.	
В.	WATER	Parameter		Resul	Results		f e	Limit		
		рН		7.5		рН		5.5-9.0		
-		Total Suspend Solid	ed	9.7		mg/ltr.		100	The quality of mine water is being measured	
		Total Dissolve Solid	ed 748.0		)	mg/ltr.		2100	on monthly basis and all values are within the limits. Average value for FY20 is provided	
		Biological Oxygen Demand		2.4		mg/ltr.		30		
		Chemical Oxygen Demand		16.0		mg/ltr.		250	here.	
		Oil & Grease		0.8		mg/ltr.		10		

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

# Environmental Statement for the financial year ending the 31st March -2020 Digwadih Colliery

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

SI	Hazardous Waste	Total Quantity (Kg.)				
No	• •	During the previous financial year 2018-2019	During the current financial year 2019-2020			
1.	From process					
	Used Oil	400 Litre	1813 Litre			
	Used cap lamp Battery	1487 Nos	0 Nos			
2.	From pollution control	-				
	facility					

### PART – E Solid Wastes

SI	Solid Wastes	Total Quantity (Kg.)		
No		During the previous financial year 2018-2019	During the current financial year 2019-2020	
1.	Steel Scrap and other materials (conveyor belt, cable pieces waste) collected from U/G mines.	155.17 Ton	107.49 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	107.49 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	Used Oil (Liquid)	1813 Litre	Hazardous wastes are disposed off to registered recyclers according to applicable Hazardous Wastes
2. Used Cap Lamp Battery	Battery(Solid)	0 Nos	Management Rules. Battery wastes are sold off to authorized recycler

# Environmental Statement for the financial year ending the 31st March -2020 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	1006.79
2	Fire Control measures (Fire/Isolation Stopping and Nitrogen plant)	147.4
3	Goaf Filling activities, Drain repairing and maintenance, settling tank maintenance jobs	10.84
4	Water spraying costs in underground and surface	12.5
5	Making potable water in Water Treatment Plant & Supply to colonies	96.35
6	Horticultural activities including green belt development and regular lawn and garden maintenance	19.23
7	Plantation of saplings and maintenance	5.30
	Total Cost incurred	1298.41

Total annual expenditure incurred towards environmental protection is Rs. 1298.41 lakhs.

Annual raw coal production of the plant during the year is 2.31 lakh ton.

So the impact of the pollution abatement measures and environment protection shall be **Rs. 561.41 per ton** of raw coal production.

### 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 in FY20 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.

# Environmental Statement for the financial year ending the 31st March -2020 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).

Manaj Kumar

Name of Unit - Digwadih Colliery

Head, Digwadih Colliery TATA STEEL LIMITED