



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/ 897 /2020

September 28<sup>th</sup>, 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 **6&7 Pits 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)

Received  
28/9/2020  
झारखण्ड राज्य प्रदूषण नियंत्रण पथक  
क्षेत्रीय कार्यालय  
धनबाद

CC: Regional Officer, Jharkhand State Pollution Control Board, HIG.-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 31<sup>st</sup> March -2020  
6&7 Pits Colliery**

**PART – A**

<b>1.Name and address of the owner/ occupier of the : industry/ operation or process</b>	<b>6&amp;7 Pits Colliery</b>
<b>Manager</b> :	<b>Mr. Kumar Akhilesh Singh</b> Head (6&7 Pits Colliery) Tata Steel Ltd., P.O.- Bhaga Dist.- Dhanbad, Jharkhand-828301
<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>	23 <sup>rd</sup> September 2019 (Vide Letter No. JMB/ENV/ESSA/05/525/2019)

**PART – B**

**Water and Raw Material Consumption**

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

	<b>Water consumption in 2018-2019</b>	<b>Water consumption in 2019-2020</b>
<b>Process</b>	Not Applicable	Not Applicable
<b>Industrial</b>	14.29 M <sup>3</sup> /day	14.47 M <sup>3</sup> /day
<b>Domestic</b>	1739.65 M <sup>3</sup> /day	1730.60 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 2018-2019</b>	<b>During the current financial year 2019-2020</b>
1.	Raw Coal	Not Applicable	Not Applicable

**FORM – V (See rule – 14)**  
**Environmental Statement for the financial year ending the 31<sup>st</sup> March -2020**  
6&7 Pits 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 2018-2019	During the current financial year 2019-2020
1.	Explosives	Raw Coal	0.35 Kg/Tonne	0.36 Kg/Tonne
2.	Detonators		0.71 Nos/Tonne	0.70 Nos/Tonne

\*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.
		84.26	46.19	11.35	10.82	
B.	WATER	<b>Parameter</b>	<b>Results</b>	<b>Unit of measure</b>	<b>Limit</b>	The quality of mine water is being measured on monthly basis and all values are within the limits. Average value for FY20 is provided here.
		pH	7.8	pH	5.5-9.0	
		Total Suspended Solid	10.6	mg/ltr.	100	
		Total Dissolved Solid	645.5	mg/ltr.	2100	
		Biological Oxygen Demand	2.8	mg/ltr.	30	
		Chemical Oxygen Demand	17.5	mg/ltr.	250	
	Oil & Grease	0.9	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.

**FORM – V (See rule – 14)**

**Environmental Statement for the financial year ending the 31<sup>st</sup> March -2020  
6&7 Pits 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	
		During the previous financial year 2018-2019	During the current financial year 2019-20
1.	From process Used Oil Used cap lamp Battery	600 Litre 1037 Nos	1206 Litre Nill
2.	From pollution control facility	-	-

**PART – E**

**Solid Wastes**

Sl No	Solid Wastes	Total Quantity ( Kg.)	
		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.	97.43 Ton	67.43 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
<b>Solid Waste</b> 1. <b>Steel Scrap and other materials</b>	Solid	67.43 Ton	Steel scrap and other solid wastes, which is mentioned here sent to central scrap yard for segregation and disposal to vendors.
<b>Hazardous Waste</b> 1. <b>Used Oil</b>	Used Oil (Liquid)	1206 Litre	Hazardous wastes are disposed of to registered recyclers according to applicable Hazardous Wastes Management Rules.
2. <b>Used Cap Lamp Battery</b>	Battery (Solid)	Nill	Battery wastes are sold off to authorized recycler

**FORM – V (See rule – 14)**  
**Environmental Statement for the financial year ending the 31<sup>st</sup> March -2020**  
**6&7 Pits 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	245.66
2	Fire Control measures (Fire/Isolation Stopping and Nitrogen plant)	81.73
3	Goaf Filling activities, Drain repairing and maintenance, settling tank maintenance jobs	18.99
4	Water spraying costs in underground and surface	32.5
5	Making potable water in Water Treatment Plant & Supply to colonies	81.89
6	Horticultural activities including green belt development and regular lawn and garden maintenance	19.23
7	Plantation of saplings and maintenance	5.30
	<b>Total Cost incurred</b>	<b>485.30</b>

Total annual expenditure incurred towards environmental protection is **Rs. 485.30 lakhs**.

Annual raw coal production of the plant during the year is **1.90 lakhs tonnes**.

So the impact of the pollution abatement measures and environment protection shall be **Rs.254.77 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, stowing and community supply.

**FORM – V (See rule – 14)**

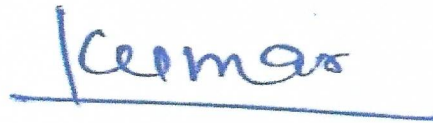
**Environmental Statement for the financial year ending the 31<sup>st</sup> March -2020**

**6&7 Pits 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 and 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 45001:2018 certified).



**Name of Unit – 6&7 Pits Colliery**

**Head, 6&7 Pits Colliery  
TATA STEEL LIMITED**