



Shubhanand Mukesh  
Head Environment Management

EMD/C-23/379/18  
September 26<sup>th</sup>, 2018

**The Member Secretary**

Jharkhand State Pollution Control Board  
T.A. Division Building, HEC Campus, Dhurwa  
**RANCHI - 834004**

**Subject: Environmental Statement 2017-2018 for Tubes Division, of Tata Steel Limited , Jamshedpur.**

Dear Sir,

This has reference to the captioned subject. Please find enclosed the **“Environmental Statement” for Tubes Division, of Tata Steel Limited , Jamshedpur** for the year 2017-2018 duly filled in the prescribed format is enclosed for your kind consideration.

Thanking you

Yours faithfully,  
**For Tata Steel Limited**

*Shubhanand Mukesh*

**Shubhanand Mukesh**  
**Head, Environment Management**

Encl: As Above

Copy to: Regional Officer, Jharkhand State Pollution Control Board, Jamshedpur  
- 831 013



**TATA STEEL LIMITED**

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**ENVIRONMENTAL STATEMENT  
FOR THE YEAR 2017- 2018**

**TUBES DIVISION  
TATA STEEL LIMITED**

**ENVIRONMENTAL MANAGEMENT DEPARTMENT  
TATA STEEL LIMITED  
JAMSHEDPUR-831001**

# Environment Statement For 2017-18

**FORM - V**  
**TATA STEEL LIMITED**  
**TUBES DIVISION, JAMSHEDPUR**

**Environment Statement Report for the Year ending 31-03-2018**

**PART-A**

I)	Name and address of the occupier	:	Mr. T. V. Narendran Managing Director Tata Steel Limited, Jamshedpur-831001 Jharkhand
II)	Industry Category Primary (SIC Code) Secondary (SIC Code)	:	3547 : Not available : Not available
III)	Production capacity	:	216000 MTPA (Standard Tubes) 65000 MTPA (Precision Tubes)
IV)	Year of establishment	:	1954
V)	Date of last environmental statement submitted.	:	September 14, 2017 vide letter no. EMD/C-23/139/17

## Environment Statement For 2017-18

### **PART-B** **WATER & RAW MATERIAL CONSUMED**

#### **i) Water Consumption (m<sup>3</sup>/day)**

<b>Water Consumption</b>	<b>During the previous Financial Year (2016-17)</b>	<b>During the current Financial year (2017-18)</b>
<b>Industrial Consumption</b> (Process & Cooling as Makeup water)	3,14,471 KL (862 m <sup>3</sup> /day)	2,62,843 KL (720 m <sup>3</sup> / day)
<b>Domestic Consumption</b> (as drinking water)	1,19,587 KL (328 m <sup>3</sup> /day)	1,20,670 KL (331 m <sup>3</sup> / day)

<b>Name of the product</b>	<b>Process water consumption per unit of product Output</b>	
	<b>During the previous Financial Year (2016-17)</b>	<b>During the current Financial year (2017-18)</b>
Standard Tubes & Precision Tubes	1.17 KL/Tonnes	0.98 KL/Tonnes

#### **ii) Raw Material Consumption:**

<b>Name of Raw Material</b>	<b>Name of the Products</b>	<b>Consumption of raw material</b>	
		<b>2016-2017</b>	<b>2017-2018</b>
		<b>MT/Yr.</b>	<b>MT/Yr.</b>
Hot & Cold Rolled Strips	Standard tubes & Precision tubes	2,79,395	2,78,578
Zinc spelter		2,690	2407.926
Preflux		154	104.05
Topflux		70	28.01
Sulphuric Acid		493	419.390
Hydrochloric Acid		80	150

## Environment Statement For 2017-18

### PART-C

#### **POLLUTION DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT (PARAMETER AS SPECIFIED IN THE CONSENT ISSUED)**

Pollutants	Quantity of pollutants Discharged (mass/day)		Concentrations of pollutants discharged (mass / volume)		Percentage of variation from prescribed (standards with reasons.)
	kg/day		mg/L		
<b>a) WATER</b>	<b>kg/day</b>		<b>mg/L</b>		
	<b>2016-2017</b>	<b>2017-2018</b>	<b>2016-2017</b>	<b>2017-2018</b>	
TSS	3.23	2.87	18.0	16.19	-
Oil & Grease	0.73	0.50	4.1	2.80	-
COD	9.37	15.12	52.3	85.42	-
<b>b) AIR</b>	<b>kg/day</b>		<b>mg/Nm<sup>3</sup></b>		
	<b>2016-2017</b>	<b>2017-2018</b>	<b>2016-2017</b>	<b>2017-2018</b>	
PM	25.90	25.3	67.2	28	-
SO <sub>2</sub>	2.31	2.2	6.0	5.2	-
NO <sub>x</sub>	26.35	26.2	68.3	62.3	-

#### **Ambient Air Quality (2017-18)**

Parameter	Norm	UoM	Near Tata Tubes Galvanisation			Tube Division Near Canteen		
			Max.	Min.	Average	Max	Min	Average
Particulate Matter, PM <sub>10</sub>	100	µg/m <sup>3</sup>	86.74	161.29	112.38	89.49	131.26	105.21
Particulate Matter, PM <sub>2.5</sub>	60	µg/m <sup>3</sup>	54.98	81.59	63.09	54.61	66.60	60.87
Sulphur Dioxide (SO <sub>2</sub> )	80	µg/m <sup>3</sup>	21.13	34.53	25.01	21.43	34.80	26.95
Nitrogen Dioxide, (NO <sub>x</sub> )	80	µg/m <sup>3</sup>	23.23	41.43	33.91	27.33	49.57	36.21
Carbon Monoxide(CO)	2000	µg/m <sup>3</sup>	0.24	0.83	0.64	0.34	0.85	0.63
Ammonia (NH <sub>3</sub> )	400	µg/m <sup>3</sup>	25.00	44.90	37.68	17.33	57.33	37.95
Ozone (O <sub>3</sub> )	100	µg/m <sup>3</sup>	22.25	29.75	25.13	22.25	34.50	26.94
Lead (Pb)	1	µg/m <sup>3</sup>	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Arsenic (As)	6	ng/m <sup>3</sup>	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel (Ni)	20	ng/m <sup>3</sup>	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene (C <sub>6</sub> H <sub>6</sub> )	5	µg/m <sup>3</sup>	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

## Environment Statement For 2017-18

<b>Benzo alpha Pyrene (BaP)</b>	1	ng/m <sup>3</sup>	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
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**PART-D**

**HAZARDOUS WASTES**

**(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Amendment Rules, 2016)**

Hazardous Wastes	Total Quantity (Tonne/year)	
	<u>2016-17</u>	<u>2017-18</u>
Zinc by product (Ash, Dross, Dust, Blowing)	995.32 MT	985.68 MT
Acid Residue (Hydrochloric Acid & Sulphuric Acid)	1442 MT	1247.76 MT
Pickling / Phosphating sludge	73 MT	106 MT
Chemical sludge from common industrial ETP	NIL	78 MT
Used oil & residue containing oil	199.11 MT	100.60 KL

**PART-E**

**SOLID WASTES**

Sl. No.	Solid Waste	Total Quantity Generated	
		<u>2016-17</u>	<u>2017-18</u>
a.	From process <ul style="list-style-type: none"> <li>▪ Metal finishing wastes</li> <li>▪ Zinc Metal Wastes</li> </ul>	18499.18 MT 843.18 MT	15416.08 MT 804.211 MT
b.	From Pollution Control facility	Nil	Nil
c.	Quantity recycled within the unit	Nil	Nil

# Environment Statement For 2017-18

## PART - F

Characteristics of hazardous as well as solid wastes and their method of disposal:

Hazardous / Solid wastes	Characteristics	Method of disposal
Metal Finishing Wastes	Ferrous	Auctioned to outside parties to reuse and also sent to Steel Works for melting in furnaces.
Zinc Metal Wastes	Zinc compound	Auctioned to outside parties to reuse
Picking/ Phosphating Bath	Acidic	Neutralised and dumped inside the works in the impervious pit.
ETP Sludge	Acidic	Neutralised and dumped inside the works in the impervious pit.

## PART - G

<p>Impact of pollution control measures on conservation of natural resources and consequently on the cost of production.</p>	<p>Necessary measures have been taken to increase yield and reduce electricity, water and oil consumption, which reduces the overall cost of production.</p> <p>A water harvesting point has been created near the Sewage Treatment Plant. The surface drain of the plant is connected to the water harvesting pit which carries the roof water in the rainy season for harvesting. The water harvesting pit has an inlet and an outlet with overflow facility. It is checked and maintained regularly to ensure that the same is in order.</p> <p>Rain Water Harvesting structure has been installed in old scooter shed area inside plant premises.</p>
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## PART - H

<p>Additional investment proposal for environmental protection including abatement of pollution</p>	<p>Online analyzers for effluent to measure pH and TDS have already been commissioned in the outlet of effluent treatment plant. There are only two stacks with adequate height in different operating unit to control particulate matter emission with the help of air pollution control equipment. Both the stacks are being monitored every month by manual measurement. Online emission monitoring system shall be provided to the stacks by next year.</p>
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## PART - I

<p>Any other particulars for improving in respect of environmental protection and abatement of pollution.</p>	<p>The Tubes Division has successfully passed the ISO 14001: 2004 (Environmental Management System)</p>
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