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EMD/C-23/ 207/19
September 20th, 2019

Shubhanand Mukesh
Head Environment Management

The Member Secretary

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

**Subject: Environmental Statement 2018-2019 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 2018-2019 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,
Adityapur, Jamshedpur - 831 013



TATA STEEL LIMITED

Environment Management Jamshedpur 831 001 India
Tel 91 657 2424125 6644859 e-mail shubhanand.mukesh@tatasteel.com
Registered 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

**ENVIRONMENTAL STATEMENT
FOR THE YEAR 2018- 2019**

**TUBES DIVISION
TATA STEEL LIMITED**

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

Environment Statement For 2018-19

FORM - V
TATA STEEL LIMITED
TUBES DIVISION, JAMSHEDPUR

Environment Statement Report for the Year ending 31-03-2019

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	:	235000 MTPA (Standard Tubes) 85000 MTPA (Precision Tubes)
IV)	Year of establishment	:	1954
V)	Date of last environmental statement submitted.	:	September 26, 2018 vide letter no. EMD/C-23/379/18

PART-B
WATER & RAW MATERIAL CONSUMED

i) Water Consumption (m³/day)

Water Consumption	During the previous Financial Year (2017-18)	During the current Financial year (2018-19)
Industrial Consumption (Process & Cooling as Makeup water)	2,62,843 KL (720 m ³ / day)	2,74,336 KL (752 m ³ / day)
Domestic Consumption (as drinking water)	1,20,670 KL (331 m ³ / day)	24,067 KL (66 m ³ / day)

Name of the product	Process water consumption per unit of product Output	
	During the previous Financial Year (2017-18)	During the current Financial year (2018-19)
Standard Tubes & Precision Tubes	0.98 KL/Tonnes	0.86 KL/Tonnes

ii) Raw Material Consumption:

Name of Raw Material	Name of the Products	Consumption of raw material	
		2017-2018	2018-2019
		MT/Yr.	MT/Yr.
Hot & Cold Rolled Strips	Standard tubes & Precision tubes	2,78,578	2,88,703
Zinc spelter		2407.926	1931.332
Preflux		104.05	62.810
Topflux		28.01	32.380
Sulphuric Acid		419.390	340.680
Hydrochloric Acid		150	180 KL

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		
a) WATER	kg/day		mg/L		
	2017-2018	2018-2019	2017-2018	2018-2019	
TSS	2.87	2.24	16.19	20.28	-
Oil & Grease	0.50	0.31	2.80	2.80	-
COD	15.12	9.41	85.42	85.08	-
b) AIR	kg/day		mg/Nm³		
	2017-2018	2018-2019	2017-2018	2018-2019	
PM	25.3	11.16	28	17.5	-
SO ₂	2.2	21.97	5.2	112.6	-
NO _x	26.2	3	62.3	111	-

Ambient Air Quality (2018-19)

Parameter	Norm	UoM	Near Tata Tubes Galvanisation			Tube Division Near Canteen		
			Max.	Min.	Average	Max	Min	Average
Particulate Matter, PM ₁₀	100	µg/m ³	162.0	96.8	119.5	127.4	87.5	103.4
Particulate Matter, PM _{2.5}	60	µg/m ³	65.4	50.9	60.5	62.1	48.7	56.6
Sulphur Dioxide (SO ₂)	80	µg/m ³	23.7	8.3	13.9	41.4	10.6	17.5
Nitrogen Dioxide, (NO _x)	80	µg/m ³	30.9	13.6	20.1	34.7	15.5	21.7
Carbon Monoxide(CO)	2000	µg/m ³	0.6	0.3	0.5	0.6	0.2	0.4
Ammonia (NH ₃)	400	µg/m ³	50.3	27.3	42.9	62.7	16.8	41.0
Ozone (O ₃)	100	µg/m ³	44.0	17.0	24.5	34.0	6.8	25.5
Lead (Pb)	1	µg/m ³	0.4	0.2	0.3	0.5	0.3	0.3
Arsenic (As)	6	ng/m ³	0.1	0.0	0.0	0.0	0.0	0.0
Nickel (Ni)	20	ng/m ³	0.4	0.2	0.3	0.5	0.2	0.4
Benzene (C ₆ H ₆)	5	µg/m ³	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo alpha Pyrene (BaP)	1	ng/m ³	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PART-D

HAZARDOUS WASTES

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

Hazardous Wastes	Total Quantity (Tonne/year)	
	2017-18	2018-19
Zinc by product (Ash, Dross, Dust, Blowing)	985.68 MT	656.69 MT
Acid Residue (Hydrochloric Acid & Sulphuric Acid)	1247.76 MT	1133.47 MT
Pickling / Phosphating sludge	106 MT	92.84 MT
Chemical sludge from common industrial ETP	78 MT	95 MT
Used oil & residue containing oil	100.60 KL	245.11 KL

PART-E

SOLID WASTES

Sl. No.	Solid Waste	Total Quantity Generated	
		2017-18	2018-19
a.	From process <ul style="list-style-type: none"> ▪ Metal finishing wastes ▪ Zinc Metal Wastes 	15416.08 MT 804.211 MT	13704.12 MT 661.152 MT
b.	From Pollution Control facility	Nil	Nil
c.	Quantity recycled within the unit	Nil	Nil

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

Environment Statement For 2018-19

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

Impact of pollution control measures on conservation of natural resources and consequently on the cost of production.	<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

Additional investment proposal for environmental protection including abatement of pollution	<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

Any other particulars for improving in respect of environmental protection and abatement of pollution.	<p>The Tubes Division has successfully passed the ISO 14001: 2015 (Environmental Management System)</p>
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