

Raju Agrawal Head, Environment Clearance & Compliance (TSL) Environment Management

EMD/C-23/247/21 September 22, 2021

**The Member Secretary** Jharkhand State Pollution Control Board T.A. Division Building, HEC Campus, Dhurwa **RANCHI – 834004** 

#### Subject: Environmental Statement 2020-2021 for Tata Steel Limited - Tubes Division, Jamshedpur

Dear Sir,

This has reference to the captioned subject. Please find enclosed the **"Environmental Statement"** for Tata Steel Limited - Tubes Division, Jamshedpur for the year 2020-2021 duly filled in the prescribed format is enclosed for your kind consideration.

Thanking you

Yours faithfully, For Tata Steel Limited

Raju<sup>l</sup>Agrawal Head, Environment Clearance & Compliance (TSL)

Encl: As Above

Copy to: Regional Officer, Jharkhand State Pollution Control Board, Adityapur, Jamshedpur – 831013

#### TATA STEEL LIMITED

Environment Management Jamshedpur 831 001 India Tel 91 657 6640363 7763807379 (M) e-mail raju.agrawal@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 2020- 2021

# TUBES DIVISION TATA STEEL LIMITED

Submitted by: ENVIRONMENTAL MANAGEMENT DEPARTMENT TATA STEEL LIMITED JAMSHEDPUR-831001

### FORM – V

### Environment Statement Report for the Year ending 31/03/2021

### PART-A

I)	Name and address of the occupier	:	Mr. T. V. Narendran CEO & 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 18, 2020 vide letter no. EMD/C-23/409/20

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

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

Water Consumption	During the Previous Financial year (2019-20)	During the Current Financial year (2020-21)	
<b>Industrial</b> <b>Consumption</b> (Process & Cooling as Makeup water)	632	605	
<b>Domestic</b> <b>Consumption</b> (as drinking water)	46.16	46	

Name of the product	Process water consumption per unit o product Output		
	During the Previous Financial year (2019-20)	During the Current Financial year (2020-21)	
Standard Tubes & Precision Tubes	0.90 KL/Tonnes	0.99 KL/Tonnes	

### ii) Raw Material Consumption:

		Consumption of raw material			
Name of Raw Material	Name of the Products	2019-2020	2020-2021		
		MT/Yr.	MT/Yr.		
Hot & Cold Rolled Strips		269980	233356		
Zinc spelter		2162.66	1511.60		
Pre-flux	Standard tubes &	80.4	47		
Top-flux	Precision tubes	28.7	37.27		
Sulphuric Acid		364.56	271.37		
Hydrochloric Acid		200.78	243		

### PART-C

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

Quantity of pollutantsPollutantsDischarged (mass/day)		pollu disch	rations of tants arged volume)	Percentage of variation from prescribed standards with reasons.	
a) WATER	kg/	day	mg	g/L	In %age (referering CTO)
	<u>2019-</u> 2020	<u>2020-</u> 2021	<u>2019-</u> 2020	<u>2020-</u> 2021	
TSS	NA*	NA*	28.0	15.3	-84.7
Oil & Grease	NA	NA	4.40	1.7	-83
BOD	NA	NA	<10	<10	-66.7
COD	NA	NA	70.0	65.75	-73.7
b) AIR	kg/	day	mg/Nm <sup>3</sup>		
	<u>2019-</u> 2020	<u>2020-</u> 2021	<u>2019-</u> 2020	<u>2020-</u> 2021	
РМ	12.21	11.89	18.27	17.80	-82.2
$SO_2$	-	_	-	_	-
NO <sub>x</sub>	_	-	-	-	-

\*No process effluent is being discharged outside the premises

#### Ambient Air Quality (2020-21)

Deverseter	Norm	II.	<b>Tube Division Near Canteen</b>		
Parameter	Norm	UoM	Max	Min	Avg
Particulate Matter, PM <sub>10</sub>	100	µg/m³	360	21	217.5
Particulate Matter, PM <sub>2.5</sub>	60	µg/m³	124	14	79.9
Sulphur Dioxide (SO <sub>2</sub> )	80	µg/m³	32	6	13.5
Nitrogen Dioxide, (NO <sub>x</sub> )	80	µg/m³	83	18.7	42.8
Carbon Monoxide (CO)	2	mg/m <sup>3</sup>	0.72	0.25	0.4
Ammonia (NH <sub>3</sub> )	400	µg/m³	125	22.4	70.8
Ozone (O <sub>3</sub> )	100	µg/m³	29	7	16
Lead (Pb)	1	ng/m <sup>3</sup>	< 1.0	< 1.0	< 1.0
Arsenic (As)	6	ng/m <sup>3</sup>	< 1.0	< 1.0	< 1.0
Nickel (Ni)	20	µg/m³	< 5.0	< 5.0	< 5.0
Benzene (C <sub>6</sub> H <sub>6</sub> )	5	µg/m³	< 0.1	< 0.1	< 0.1
Benzo alpha Pyrene (BaP)	1	ng/m <sup>3</sup>	< 0.1	< 0.1	< 0.1

### PART-D

### **HAZARDOUS WASTES**

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

### **Total Quantity Generated**

Hazardous Wastes	Total Quantity (Tonne/year)			
Hazardous wastes	<u>2019-20</u>	<u>2020-21</u>		
Zinc by product (Ash, Dross, Dust, Blowing)	843.03	718.45		
Acid Residue (Hydrochloric Acid & Sulphuric Acid)	1276.66	879.15		
Phosphating sludge	60.18	46		
Chemical sludge from common industrial ETP	72.60	8.47		
Used oil & residue containing oil	44.63	55.72		

### PART-E

#### SOLID WASTES

S1.	Solid Waste	Total Quantity Generated		
No.	Sond waste	2019-20	<u>2020-21</u>	
a.	From process <ul> <li>Metal finishing wastes</li> </ul>	11001.68 MT	11029.71MT	
Zinc Metal Wastes		827.563 MT	685.23MT	
b.	From Pollution Control facility	Nil	Nil	
с.	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	Characterist ics	Method of disposal
Metal Finishing Wastes (Solid Waste)	Ferrous	Auctioned to outside parties to reuse.
Zinc Metal Wastes	Zinc compound	Sent to registered recyclers.
Pickling Sludge	Acidic	Sent to registered recyclers.
Phosphating Sludge	Acidic	Sent to registered parties to reuse.
ETP Sludge	Acidic	Sent to TSDF facility outside the premise.
Zinc By-Product	Zinc	Sent to registered recyclers.
	Compound	
Used Oil	Oily	Sent to registered recyclers.

### <u> PART - G</u>

Impact of pollution control measures on conservation of natural resources and consequently on the cost of production.	•	Electricity Consumption reduced from 24917 MWH to 21993 MWH in FY'21. Consequently, reducing emission of GHGs. Water consumption reduced from 230566 KL to 220654 KL in FY'21. Zero effluent discharge unit. Treated water recycling into processing units.
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### <u> PART - H</u>

Additional investment proposal for environmental protection including abatement of pollution	0 5
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## <u> PART – I</u>

Any other particulars for improving in respect of environmental protection and abatement of pollution.	1 ( 8 • ]	Tubes Division is taking different steps to reduce water consumption in Canteen and Office Building by use of automatic faucet & shower flow ECO 365. Tubes Division has implemented ISO: 14001:2015 (Environmental Management
		System).