



TSJ/EMD/C-23/177/23
September 26, 2023

The Member Secretary
Jharkhand State Pollution Control Board
T.A. Division Building
HEC Campus, Dhurwa
Ranchi - 834004

Subject: Submission of Environment Statement for Tubes Division, Tata Steel Limited, Jamshedpur for the year 2022-23

Dear Sir,

With reference to captioned subject, we are submitting herewith the Environment Statement for Tubes Division, Tata Steel Limited, Jamshedpur for the year 2022-23 duly filled in the prescribed format for your kind consideration.

You are requested to kindly acknowledge the same and place in your records.

Thanking you

Yours faithfully,
For Tata Steel Limited

Utsav Kashyap
Head Environment Clearance & Compliance (TSL)

Enclosures as above

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

TATA STEEL LIMITED

Environment Management Jamshedpur 831 001 India

Ph: 8092087043 (M) e-mail: utsav.kashyap@tatasteel.com

Registered Office: Bombay House, 24 Homi Mody Street, Mumbai 400001

Tel 91 22 66658282 Fax 91 22 66657724

Corporate Identity Number L27100MH 1907PLC000260 Website www.tatasteel.com

**ENVIRONMENTAL STATEMENT
FOR THE YEAR 2022-23**

**TUBES DIVISION
TATA STEEL LIMITED**

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

Environment Statement 2022-23

[Form V]

Environmental Statement for the Financial Year ending 31/03/2023

PART-A

I)	Name and address of the occupier	:	Mr. T. V. Narendran Managing Director Tata Steel Limited, Jamshedpur-831001 Jharkhand
II)	Industry Category	:	Orange Category
	Primary (SIC Code)	:	3316
	Secondary (SIC Code)	:	Nil
III)	Production capacity	:	235000 MTPA (Standard Tubes) 85000 MTPA (Precision Tubes)
IV)	Year of establishment	:	1954
V)	Date of last environmental statement submitted.	:	EMD/C-23/172 /22 September 22, 2022

PART-B

WATER & RAW MATERIAL CONSUMED

i) **Water Consumption (m³/day)**

1. Industrial Consumption	:	429
(Process & Cooling as Makeup water)		
2. Domestic Consumption	:	283

Name of the product	Process water consumption per unit of product Output (m ³ /t)	
	During the Previous Financial year (2021-22)	During the Current Financial year (2022-23)
Standard Tubes & Precision Tubes	0.68	0.57

ii) **Raw Material Consumption:**

Name of Raw Material	Name of the Products	Consumption of raw material	
		2021-22	2022-23
		MT/Yr.	MT/Yr.
Hot & Cold Rolled Strips	Standard tubes & Precision tubes	272528	284419
Zinc spelter		1871	1989
Pre-flux		71	58
Top-flux		32	48
Sulphuric Acid		349	384
Hydrochloric Acid		158	176

Environment Statement 2022-23

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 in discharges (mass/volume)		Percentage of variation from prescribed standards with reasons
	kg/day		mg/L		
a) WATER	2021-22	2022-23	2021-22	2022-23	
TSS	NA*	NA*	18.8	11.0	-89
Oil & Grease	NA	NA	1.6	1.9	-81
BOD	NA	NA	9.0	12.3	-59
COD	NA	NA	84.9	67.3	-73
b) AIR	kg/day		mg/Nm ³		
	2021-22	2022-23	2021-22	2022-23	
PM	9.38	11.34	13.60	12.89	-91

*No process effluent is being discharged outside the premises.

PART-D
HAZARDOUS WASTES

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

Hazardous Wastes	Total Quantity (Tonne/year)	
	2021-22	2022-23
(a) From Process		
Zinc by product (Ash, Dross, Dust, Blowing)	797	795
Acid Residue (Hydrochloric Acid & Sulphuric Acid)	1277	1179
Phosphating sludge	110	72
Used oil & residue containing oil	25	43
(b) From pollution control facilities		
Chemical sludge from common industrial ETP	48	48

PART-E
SOLID WASTES

Sl. No.	Solid Waste	Total Quantity	
		2021-22	2022-23
a.	From process		
	▪ Metal finishing wastes	13219.52	13938.64
b.	From Pollution Control facility	Nil	Nil
c.	(1) Quantity recycled within the unit	1377.26	1640.18
	(2) Sold	11842.26	12298.46
	(3) Disposed	Nil	Nil

Environment Statement 2022-23

PART - F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Hazardous / Solid wastes	Characteristics	Method of disposal
Metal Finishing Wastes	Ferrous	Remelting at Tata steel and sold through recyclers.
Zinc Metal Wastes	Zinc compound	Sold through authorized recyclers.
Phosphating Sludge	Acidic	Collected & disposed through Govt authorized disposal facility
ETP Sludge	Acidic	Collected & disposed through Govt authorized disposal facility
Used oil & residue containing oil	Oily	Sold through authorized recyclers.

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

- Implementing in-house innovative solution at our ETP area we have achieved zero water discharge. This has helped in getting GreenPro certification from CII. The certification has helped us position Tata Ezyfit as an environment friendly product for window & door framing applications. Water consumption has reduced from 0.68 KL/Ton in FY 22 to 0.57 kl/ton in FY 23.
- Achieved reduction in CO gas consumption from 22.42 M Cubic Feet in FY 22 to 21.88 M Cubic Feet. Hence reduction in cost. These shows the positive impact of pollution control measures results in conservation of natural resources as well as on the cost of production.

PART – H

Additional investment proposal for environmental protection including abatement of pollution.

- One online stack emission monitoring system in 9 Ton boiler stack commissioned.
- One Continuous ambient air quality monitoring station is commissioned.
- Rainwater Harvesting system is going to be commissioned.

PART – I

Any other particulars for improving in respect of environmental protection and abatement of pollution.

- Initiative taken to reduce noise inside the plant: Baby catcher at the tube collectors.
- Dust Suppression drive inside plant for reduction in Fugitive Emission Dust.
- 9 Ton boiler preheating by using the waste steam: Reduction in CO Gas consumption.