



To,  
The Environment Engineer,  
West Bengal Pollution Control Board  
Haldia Regional office,  
Mouja: Raghunathchak,  
PS: Bhabanipur, PO: Barghasipur,  
Dist: Purba Medinipur,  
Pin: 721657



Letter No.- Brgs/EIC/13/2024  
Date-19<sup>th</sup> September 2024

Sub:-Form-5 (Environmental Statement for the financial year ending on 31<sup>st</sup> March 2024) for the period between 01.04.2023 to 31.03.2024

Respected Sir,

Please find enclosed herewith the following Form-5 (Environmental Statement for the financial year ending on 31<sup>st</sup> March 2024) of M/s Tata Steel Ltd, Bearings Division, Kharagpur for the period between 01.04.2023 to 31.03.2024 for your kind perusal.

Thanking You

Yours faithfully,

T.V.Srinivas Shenoy  
Executive In Charge - Bearings Division  
Tata Steel Ltd.  
Kharagpur

Encl: Form-5

**TATA STEEL LIMITED**

Kharagpur 721 301 India  
Tel 91 3222 233317 Fax 91 3222 233353  
Registered Office Bombay House 24 Homi Mody Street 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 on 31<sup>st</sup> March 2024.

**PART-A**

- (i) Name and address of the owner/ occupier of the industry operation or process.  
M/s Tata Steel Ltd, Bearings Division, Nimpura Industrial Estate, P.O.: Rakhajungle, P.S-  
Kharagpur, Paschim Medinipur, West Bengal, Pin-721301
- (ii) Industry category-Red
- (iii) Production capacity- 34.131 Million units of Bearings produced between 01.04.2023 &  
31.03.2024
- (iv) Year of establishment- Sept 1979
- (v) Date of the last environmental statement submitted- 12.09.2023.

**PART-B**

I] Water and Raw Material Consumption

1. Water consumption cum/day  
Process & Cooling – 85.01 KL  
Domestic- 439.69 KL

Name of Products	Process water consumed per unit of production output	
	During the Previous financial year ( FY 23)	During the Current financial year ( FY 24)
	[1]	[2]
Ball Bearings & Taper Roller bearings of different size	0.00075 cum/ no	0.00090 cum/ no

II] Raw Materials consumption

Name of raw materials	Name of products	Consumption of raw materials per unit of output [Average]	
		During the Current financial year (FY 23)	During the Current financial year (FY 24)
(Races, Balls, Rollers, Metal cages etc.)	Bearings	100.06 gms / no	197.24 gms / no

**PART – C**

Pollution Discharge to environmental / unit of output

[Parameters as specified in the consent issued]

1] Pollutants	Quality of pollutants discharged (mass / day)	Concentration of pollutants in discharged (mass / volume)	Percentage of variation from prescribed standards with reason
a) Water	Water discharge = 1) Zero Discharge 2) TSS- 0 kgs 3) Oil & grease- 0 kgs	pH – 7.23	Within permissible limit
		BOD –14.0 mg/Lit	Within permissible limit
		COD-62.5 mg/Lit	Within permissible limit
		TSS – 42.0 mg/Lit	Within permissible limit
		Oil & grease- 2.2 mg/Lit	Within permissible limit
		Chloride as Cl-44 mg/Lit	
b) Air		PM – 15 mg/Nm3 (PM2.5)	Within permissible limit
		CO - < 0.2% v/v	Within permissible limit
		Sox- 30.03 mg/Nm3	Within permissible limit
		Nox –17.34 mg/Nm3	Within permissible limit

**PART – D**

**HAZARDOUS WASTE**

(As specified under Hazardous Water management and Handling Rules 1989)

Hazardous Waste	Total Quantity (Kg)	
	During the previous financial year (FY 23)	During the Current financial year (FY 24)
a) from Process		
Used oil	0 KL	30.87 KL
Nitrate/ Nitrate salt [ Heat Treatment salt]	Process stopped	Process stopped
Oil Soaked Jute / cotton waste	21.78 T	26.20 T
b)From Pollution Control Activity (oily muck from ETP)	0 Ton	2 Ton
c)Electronic waste	0 Kgs	384 Kgs

**PART – E**

**SOLID WASTE**

Description	Total Quantity(Generated)	
	During the Current financial year (FY 23)	During the Current financial year (FY 24)
a) From Process		
Grinding Swarf / Muck	204.02 MT	75.03 MT
Empty barrels	182 Nos	266 nos
Iron Chips	0.67MT	0.47 MT
b) From Pollution Activity		

STP sludge (From dry bed of STP)	17 MT	2 MT
C ) (1) Quantity recycled or reutilized within the units	17 MT(STP Sludge.)	2 MT
(2) Sold	Empty barrels – 344 Nos.(Metallic)	Empty barrels – 206 Nos.(Metallic)
	Iron Chips -0.67 MT	Iron Chips -0.47
	M.S Scrap -7.17MT	M.S Scrap -50.67MT
	Hard Bearings components-41.125 MT	Hard Bearings components-88.070 MT
	Rusted, pitted& Damaged Bearings-9.520 MT	Rusted, pitted& Damaged Bearings-19.970 MT
	Electrical scrap-0.29MT	Electrical scrap-4.00MT
	Scrap Wood -53.260 MT	Scrap Wood -68.430 MT
	Used Cardboard Box-32.120MT	Used Cardboard Box-47.750MT
	Empty Plastic containers-(100+205)Lts capacity -145 nos	Empty Plastic containers-(100+205)Lts capacity -170 nos
	Empty Plastic containers-(20Lts) capacity -99 nos	Empty Plastic containers-(20Lts) capacity -96 nos
	Rejected filters - 0.37 MT	Rejected filters - 0.570 MT
	Scrap(Plastic/Rubber)-14.06 MT	Scrap (Plastic/Rubber)-21.25 MT
	Scrap m/cs & spare - 3 Nos	Scrap m/cs & spare - 9 Nos
	Scrap electrodes-0 MT	Scrap electrodes-0 MT
	Rejected spring - 0.00MT	Rejected spring - 0.00MT
	Rejected heat resistance hooks - 0MT	Rejected heat resistance hooks - 0MT
	Used grinding wheels - 4.76 MT	Used grinding wheels – 3.62 MT
(3) Disposed	STP sludge – 17 MT	
	Grinding Swarf - 203.81 MT	Grinding Swarf - 75.03 MT
	Iron dust -0 cub mtr	Iron dust -0 cub mtr
	Canteen Waste - 3.8 MT	Canteen Waste - 4.3 MT

#### **PART – F**

1. The solid waste generated from process is approx. 221.94 kgs /day (av) of unutilized fines.
2. The solid waste generated from pollution control activities is 0 kg /day by stopping the old process.

#### **Disposal practice of solid waste**

1. The solid Non-Hazardous waste generated from process & pollution activities is used for low filling & as garden manure & all solid Hazardous waste sent to M/S W.B.W.M.L, Haldia for treatment & final disposal

#### **PART – G**

Various improvement project taken under TPM, ISO-9001:2015, ISO 14001:2015, ISO 45001:2018 , ASPIRE for yield improvement , reduction of electricity consumption, water consumption ,oil consumption & safe working zone etc. The treated water from E.T.P. is however profitably used in cultivation of adjacent land,

Green initiatives taken to reduce energy consumption / water consumption & waste generation. Utility and reuse of water for industrial purpose and saved 500 KL water/month.

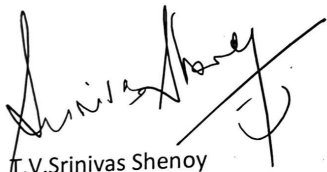
#### PART-H

All the drains are being cleaned regularly. This division of TATA STEEL has been registered with m/s W.B.W.M.L, Haldia for disposal & treatment of hazardous waste generated during manufacturing process. All bio medicals wastes generated in our dispensary disposed within 48hrs for treatment at m/s W.B.W.M.L, Haldia.

We are testing all the stack , ambient air, oil mist level, ventilation , illumination , Bio assay & Chloride test of E.T.P treated Water , Noise level of different location to avoid abnormalities in process. To maintain E.T.P process we are testing final discharged water regularly on monthly basis. We conduct medical tests of all employees and provide necessary medical treatment as per requirement.

#### PART -I

About 100 saplings were planted near to the housing complex and development of park is under plan in this year.



T.V.Srinivas Shenoy  
Executive In Charge - Bearings Division  
Tata Steel Ltd.  
Kharagpur