



To,
The Environmental Engineer,
West Bengal Pollution Control Board,
Haldia Regional Office
Supermarket 3rd Floor
Durgachak, Haldia



Brgs/EIC/190
28-09-2020

Subject: - Environmental Statement for the financial year ending 31st March 2020

Dear sir,

We are enclosing herewith Environmental Statement of M/s Tata Steel Ltd, Bearings Division, P.O: Rakhajungle, P.S:Kharagpur for the year ending 31st March 2020 for your kind perusal.

Thanking you

Yours faithfully


(C. Srivatsan)

Executive In-Charge (Bearings)



Enclosed: -a/a

TATA STEEL LIMITED

Kharagpur 721 301 India

Tel 91 3222 233317 Fax 91 3222 233353

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

Enclosure to letter no. Brgs / EIC /190/20 On 29.09.2020

FORMV

(See Rule 14)

Environmental Statement for the financial year ending the 31st March 2020

PART-A

i) Name and Address of the owner of the industry Operation on process

**TATA STEEL LIMITED
BEARINGS DIVISION
NIMPURA INDUSTRIAL ESTATE, RAKHAJUNGLE
KHARAGPUR -721301**

- ii) Industry Category Red.
iii) Production Capacity 30.05 Million units of Bearings produced between
01.04.2019 & 31.03.2020
iv) Year of establishment September 1979
v) Date of the last environment: 26th September 2019.

PART-B

Water and raw materials consumption:

I] water consumption cum / day

Process and cooling 84.13KL

Domestic: 474.8 KL

Name of Products	Process water consumed per unit of production output	
	During the previous financial year (FY-19)	During the Current financial year (FY-20)
	[1]	[2]
Ball Bearings & Taper Roller bearings of different size	0.0021 cum/no	0.00102 cum/ no

II] Raw Materials consumption

Name of raw materials	Name of products	Consumption of raw materials per unit of output (Average)	
		During the previous financial year (FY-19)	During the Current financial year (FY-20)
(Races, Balls, Rollers, Metal cages etc.)	Bearings	89.06 gms / no	98.86 gms / no

PART-C
Pollution Discharge to environment/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 -6.90	Within permissible limit
		BOD - 11.00 mg/lit	Within permissible limit
		COD-47.6 mg/Lit	Within permissible limit
b) Air	PM - 5.06 kgs (Av) Sox - 0.55kgs (Av) Nox - 0.51kgs (Av)	TSS - 15.00mg/lit	Within permissible limit
		Oil & grease 2.4 mg/Lit	Within permissible limit
		Chloride as Cl-38 mg/Lit	Within permissible limit
		CO - < 0.2% v/v	Within permissible limit
		Sox - 190 mg/Nm ³ Nox - 195 mg/Nm ³	Within permissible limit

PART-D

HAZARDOUS WASTE
(As specified under Hazardous Waste management and Handling Rules 1989)

Hazardous Waste	Total Quantity (Kg)	
	During the previous financial year (FY-19)	During the Current financial year (FY-20)
a) from Process		
Used oil	3.78 KL	6.30 KL
Nitrate/ Nitrate salt [Heat Treatment salt]	10.195T	Process discontinued
Oil Soaked Jute / cotton waste	4500 Kgs	11860 Kgs
b) From Pollution Control Activity (only muck from ETP)	8205 Kgs	6020 kgs
c) Electronic waste	1605 Kgs	0.0 Kgs

PART-E

SOLID WASTE

Description	Total Quantity(Generated,	
	During the previous financial year(FY-19)	During the Current financial year (FY-20)
a) From Process		
Ginding Swarf / Muck	90T	110 T
Empty barrels	236 NOS	203 NOS
Iron Chips	0.690 MT	0.660 MT
b) From Pollution Activity		
STP sludge (From dry bed of STP)	20 MT	25MT

C) (1) Quantity recycled or reutilized within the units	20 MT(STP SLUDGE)	25 MT
---	-------------------	-------

(2) Sold	Empty barrels -227 NOS(Metallic)	Empty barrels, 220 Nos (Metallic)
	Iron Chips -0.925 MT	Iron Chips - 0.465 MT
	M S Scrap -15.17 MT	M S Scrap -17.11 MT
	Hard Bearings component	Hard Bearings components
	5.190 MT	6.1490 MT

	Rusted, pitted & damaged bearings-4.245 MT	Rusted pitted& Damaged Bearings-6.1400MT
	Electrical Scrap-1.05MT	Electrical scrap 0.795MT
	Scrap Wood – 55.320 MT	Scrap Wood 49.655 MT
	Used Cardboard Box –8.280 MT	Used Cardboard Box 42.015MT
	Empty Plastic containers-(100Lts) capacity -113 nos	Empty Plastic (100 Lts) capacity- 83 nos
	Empty Plastic containers-(20 Lts) capacity -113 nos	Empty Plastic (20Lts) capacity -83 nos
	Rejected filters = 0.0	Rejected filters = 60 nos
	Scrap(Plastic/Rubber)= 11.580 MT	Scrap plastic/rubber= 8.14 MT
	Scrap m/c's & spare =0 Nos	Scrap m/c's & spare- Grinding wheel = 1
	Scrap electrodes- 0.0 MT	Scrap electrodes = Process discontinued
	Rejected spring = 0.00 MT	Rejected spring = 0.00MT
	Rejected Heat resistance hooks = 0.495 MT	Rejected heat resistance hooks = 00 MT
	Used grinding wheels = 2.050 MT	Used grindin wheels =50.40 MT
	ETP sludge - 20 MT(From bed of STP)	ETP sludge – 25 MT
(3) Disposed	Grinding Swarf -155 MT	Grinding Swarf -110 MT
	Iron dust -0.00 cub mtr	Iron dust -1.00 cub mtr
	Canteen Waste -4.0 MT	Canteen Waste – 3.7 MT

PART-F

- 1 The solid waste generated from process is approx. 245.35 kgs/day (avr) of grinding fines
- 2 The solid waste generated from pollution control activities is nil by discontinuing the old processes

Disposal practice of solid waste

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.V.M.L. Hada for treatment & final disposal

PART-G

Various improvement project taken under TPM ,ASPIRE , IATF,ISO-14001,OSHAS 18001 & ISO 45001:2018 for yield improvement , reduction of electricity consumption, water consumption ,oil consumption & safe working zone etc The treated water from E.T.P is used for gardening in plant and housing, industrial purpose resulting in saving 4000KL (approx) water /Month

PART-H

All the drains are being cleaned regularly. The division of TATA STEEL has been registered with M/s W.B.W.M.L, Halda 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, Halda

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 at different location.
Testing final discharged water done on monthly basis. Conduct medical tests of all employees and provide necessary medical treatment as per requirement.

PART-I

About 45 saplings were planted in Newly Developed Garden Area and development of park is under progress



C. Sivasairi
Executive In-charge (Bearings)
TATA STEEL LTD
Bearings division
Kharagpur