



EMD/C-23/174/22
September 22, 2022

Member Secretary

Jharkhand State Pollution Control Board
T.A. Division Building
HEC Campus, Dhurwa
RANCHI- 834 004

Subject: Submission of Environmental Statement 2021-2022 for Tata Steel Limited - Tata Main Hospital, Jamshedpur

Dear Sir,

This has reference to captioned subject that we are submitting herewith the "**Environmental Statement**" for Tata Steel Limited – Tata Main Hospital, Jamshedpur for the year 2021-2022 duly filled in the prescribed format for your kind consideration.

We trust you will find the report in order.

Thanking you

Yours faithfully,
For Tata Steel Limited

Anoop Srivastava

Anoop Srivastava
Head Environment Monitoring, Testing & Analysis (TSJ)

Enclosures as above

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

**ENVIRONMENTAL STATEMENT
FOR THE YEAR 2021-2022**

**Tata Main Hospital
TATA STEEL LIMITED**

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

Environment Statement 2021-2022

[Form V]

Environmental Statement for the Financial Year ending 31/03/2022

PART A

(i)	Name & address of the owner/occupier of the industry operation or process:	Air Vice Marshal (Dr.) Sudhir Rai (Retd.) General Manager (Medical Services) Tata Main Hospital Tata Steel Limited Jamshedpur-831001 Jharkhand
(ii)	Industry Category	Medium Scale (Hospital)
	Primary STC Code:	Nil
	Secondary SIC Code	Nil
(iii)	Production Capacity	983 Beds
(iv)	Year of Establishment	1907
(v)	Date of last Environment Statement submitted	September 22, 2021, vide letter no. EMD/C-23/251/21

PART B

WATER & RAW MATERIAL CONSUMPTION

i) Water Consumption

Water Consumption	During the current financial year (2020-21)	During the current financial year (2021-22)
Cooling and Domestic Consumption	931341KL (2544 Kl/Day)	587222 KL (1766 KL/Day)

ii) Raw Material Consumption:

Name of raw material	Consumption of raw material per unit of output	
	During the previous financial year (2020-21)	During the current financial year (2021-2022)
Liquid Oxygen	7,24,131 m3	9,48,855 m3

PART C

**Pollution Discharged to Environment / Unit of Output
(Parameter As Specified In the Consent Issued)**

(i) Hospital:

Pollutants	Concentrations of pollutants discharged (mass / volume)		Percentage of variation from prescribed standards
	(mg/L)		
(a)Water	2020-21	2021-22	
pH	7.6	7.7	-10
TSS	10.4	8.6	-91
Oil & Grease	1.3	1.6	-84
BOD	5.7	7.9	-74
COD	57.4	83.1	-67
(b) Air	(mg/Nm³)		
PM	NA	NA	-

(c) Ambient Air Quality (2021-22)

Parameter	Norm	UoM	Near ETP		
			Max.	Min.	Average
Particulate Matter, PM₁₀	100	µg/m ³	236	46	131
Particulate Matter, PM_{2.5}	60	µg/m ³	83	19	43
Sulphur Dioxide (SO₂)	80	µg/m ³	30	4	11
Nitrogen Dioxide, (NO_x)	80	µg/m ³	65	17	38
Carbon Monoxide(CO)	2	mg/m ³	0.23	0.14	0.17
Ammonia (NH₃)	400	µg/m ³	100	17	52
Ozone (O₃)	100	µg/m ³	30	3	9
Lead (Pb)	1	µg/m ³	< 5.0	< 5.0	< 5.0
Arsenic (As)	6	ng/m ³	NT	NT	NT
Nickel (Ni)	20	ng/m ³	< 0.1	< 0.1	< 0.1
Benzene (C₆H₆)	5	µg/m ³	< 0.1	< 0.1	< 0.1
Benzo alpha Pyrene (BaP)	1	ng/m ³	< 0.1	< 0.1	< 0.1

*NT- Not Traceable

PART D

Bio Medical Waste

1. As Specified under Bio-Medical Waste Management Rules, 2016

Bio medical waste is generated from the process which is detailed below:

Category	Type of Waste (kg)	During the calendar year (2021)
Yellow	(a) Human Anatomical Waste:	8114
	(b) Animal Anatomical Waste:	0
	(c) Soiled Waste:	121705
	(d) Expired or Discarded Medicines:	0
	(e) Chemical Waste:	0
	(f) Chemical Liquid Waste:	0
	(g) Discarded linen, mattresses, beddings contaminated with blood or body fluid.	263
	(h) Microbiology, Biotechnology, and other clinical laboratory waste:	5409
	Sub Total (Yellow)	135228
Red	Contaminated Waste (Recyclable)	85354
	Sub Total (Red)	85354
White (Translucent)	Waste sharps including Metals:	3572
	Sub Total (White)	3572
Blue	(a) Glassware:	724
	(b) Metallic Body Implants	7
	Sub Total (Blue)	731

PART E

Solid Waste

All other solid waste is like domestic and canteen waste is being routed through TSUISL for further management and handling.

PART F

Chemical Composition of waste: N.A.

PART G

Impact of Pollution control measures taken on conservation of natural sources & cost of production

- We are maintaining greenery by taking care of existing plants in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity

PART H

Additional measures/investment proposal of environmental protection including abatement of pollution

- 06 nos. of rainwater harvesting cum-ground water recharge system are installed.
- Hospital liquid waste is treated in Effluent treatment plant.

PART I

Any other particulars for improving the quality of environment

- Tree plantation drive was done to enhance green cover of Hospital (TMH) on world environment day.
- COVID-19 BMW management is being done as per CPCB Guidelines and reports are being submitted for the same.