



Dr. Amit Ranjan Chakraborty
Chief Environment Management

EMD/C-23/404/20
September 18th, 2020

The Member Secretary

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

**Subject: Environmental Statement 2019-2020 for Tata Main Hospital of
Tata Steel Limited, Jamshedpur**

Dear Sir,

This has reference to the captioned subject. Please find enclosed the
“**Environmental Statement**” for Tata Main Hospital of Tata Steel Limited,
Jamshedpur for the year 2019-2020 duly filled in the prescribed format is
enclosed for your kind consideration.

Thanking you

Yours faithfully,
For Tata Steel Limited

Dr. Amit Ranjan Chakraborty
Chief, Environment Management

Encl: As Above

Copy to: Regional Officer, Jharkhand State Pollution Control Board,
Adityapur, Jamshedpur – 831 013

TATA STEEL LIMITED

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**ENVIRONMENTAL STATEMENT
FOR THE YEAR 2019-2020**

**Tata Main Hospital
TATA STEEL LIMITED**

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

Environmental Statement 2019-2020

[Form V]

Environmental Statement for the Financial Year ending 31/03/2020

PART A

(i)	Name & address of the owner/occupier of the industry operation or process:	Air Marshal (Dr.) Rajan Chaudhry (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	Not Applicable
(iv)	Year of Establishment	1907
(v)	Date of last Environment Statement submitted	September 20, 2019 vide letter no. EMD/C-23/205/19

Environmental Statement 2019-2020

PART B

WATER & RAW MATERIAL CONSUMPTION

i) Water Consumption

Water Consumption	During the current Financial year (2018-19)	During the current Financial year (2019-20)
Cooling and Domestic Consumption	20,88,336 KL (5721.4m ³ /day)	1163903 KL (3233 Kl/Day)

ii) Raw Material Consumption:

Raw material *per se* is not consumed in TMH as the same is a hospital. The chemicals which are used are:

Name of raw material	Consumption of raw material per unit of output	
	During the previous financial year (2018-19)	During the current financial year (2019-20)
Fipronil	63.4 Lt	65.2 Lt
Bleaching powder	590 Kg	760 Kg
Lime dust	22 Kg	10 Kg
Fuel	600 Lt	600 Lt
Deltamethrin	32 Lt	33 Lt

Environmental Statement 2019-2020

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	2018-19	2019-20	
pH	7.5	7.7	-
TSS	13	23.5	-
Oil & Grease	<10	1.9	-
BOD	12.5	6.6	-
COD	24	48.1	-
(b) Air	(mg/Nm ³)		
PM	45.6	NA	-

*NA-Not Applicable (Incinerator is not in operation, as Bio-medical Waste is being disposed through TSDF)

(c) Ambient Air Quality (2019-20)

Parameter	Norm	UoM	Near CCU OFFICE		
			Max.	Min.	Average
Particulate Matter, PM ₁₀	100	µg/m ³	288	70.8	113
Particulate Matter, PM _{2.5}	60	µg/m ³	157	41.2	61.1
Sulphur Dioxide (SO ₂)	80	µg/m ³	18.0	9.2	13.1
Nitrogen Dioxide, (NO _x)	80	µg/m ³	51.8	13.9	27.6
Carbon Monoxide(CO)	2	mg/m ³	1.2	0.23	0.6
Ammonia (NH ₃)	400	µg/m ³	137	18.5	40.6
Ozone (O ₃)	100	µg/m ³	37.4	11.3	23.2
Lead (Pb)	1	µg/m ³	15.9	0.2	4.87
Arsenic (As)	6	ng/m ³	NT	NT	NT
Nickel (Ni)	20	ng/m ³	0.42	0.04	0.19
Benzene (C ₆ H ₆)	5	µg/m ³	< 4.2	< 4.2	< 4.2
Benzo alpha Pyrene (BaP)	1	ng/m ³	< 0.5	< 0.5	< 0.5

*NT- Not Traceable

Environmental Statement 2019-2020

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 (2019)
Yellow	(a) Human Anatomical Waste:	2259
	(b) Animal Anatomical Waste:	0
	(c) Soiled Waste:	42207
	(d) Expired or Discarded Medicines:	150
	(e) Chemical Waste:	0
	(f) Chemical Liquid Waste:	36720
	(g) Discarded linen, mattresses, beddings contaminated with blood or body fluid.	263
	(h) Microbiology, Biotechnology and other clinical laboratory waste:	1540
	Sub Total (Yellow)	83139
Red	Contaminated Waste (Recyclable)	43309
	Sub Total (Red)	43309
White (Translucent)	Waste sharps including Metals:	2545
	Sub Total (White)	2545
Blue	(a) Glassware:	27494
	(b) Metallic Body Implants	757
	Sub Total (Blue)	28251

PART E

Solid Waste

Details are provided in part D

PART F

Chemical Composition of waste as produced by TMH: N.A.

PART G

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

- We have grown and maintain greenery in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity. In last year 551 saplings were planted.

PART H

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

- 6 nos. of rain water harvesting cum-ground water recharge system are made.
- Hospital Floor wash liquid waste connected to Effluent treatment plant as per BMW rules 2016 and amendment 2018

PART I

Any other particulars for improving the quality of environment

- Tree plantation drive to improve green cover of Hospital (TMH) on world environment day.
- COVID-19 BMW CPCB Guidelines are being followed and reports are being submitted for the same.