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EMD/C-23/205/19
September 20th, 2019

Shubhanand Mukesh
Head Environment Management

The Member Secretary

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

**Subject: Environmental Statement 2018-2019 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 2018-2019 duly filled in the prescribed format is
enclosed for your kind consideration.

Thanking you

Yours faithfully,
For Tata Steel Limited

Shubhanand Mukesh

Shubhanand Mukesh
Head, Environment Management



Encl: As Above

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

TATA STEEL LIMITED

Environment Management Jamshedpur 831 001 India
Tel 91 657 2424125 6644859 e-mail shubhanand.mukesh@tatasteel.com
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

**ENVIRONMENTAL STATEMENT
FOR THE YEAR 2018-2019**

**Tata Main Hospital
TATA STEEL LIMITED**

**Submitted by:
Tata Main Hospital
TATA STEEL LIMITED
JAMSHEDPUR-831001
JHARKHAND**

Environment Statement For 2018-19

[Form V]

**Tata Main Hospital
TATA STEEL LIMITED**

Environmental Statement for the Financial Year ending 31st March 2019

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 26, 2018 vide letter no. EMD/C-23/374/18

Environment Statement For 2018-19

Part B

WATER & RAW MATERIAL CONSUMPTION

i) Water Consumption

Water Consumption	During the previous Financial Year (2017-18)	During the current Financial year (2018-2019)
Cooling and Domestic Consumption	20,98,561KL (5749.4 m ³ /day)	20,88,336 KL (5721.4m ³ /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 (2017-18) in kg/year	During the current financial year (2018-2019) in kg/year
Fipronil	62.4 Liters	63.4 Liters
Bleaching powder	600 Kg	590 Kg
Lime dust	20 Kg	22 Kg
Fuel	610 L	600 L
Deltamethrin	31.2 Liters	32 Liters

Environment Statement For 2018-19

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	2017-18	2018-19	
pH	7.6	7.5	-
TSS	11.6	13	-
Oil & Grease	1.1	<10	-
BOD ₃	4.9	12.5	-
COD	18.0	24	-
(b) Air	(mg/Nm ³)		
PM	133.1	45.6	-

(c) Ambient Air Quality (2018-19)

Parameter	Norm	UoM	Near CCU OFFICE			Near ELECTRICAL MAINTENANCE		
			Max.	Min.	Average	Max	Min	Average
Particulate Matter, PM ₁₀	100	µg/m ³	101.29	70.37	83.18	98.17	72.49	88.90
Particulate Matter, PM _{2.5}	60	µg/m ³	56.74	39.37	47.31	58.08	43.00	50.92
Sulphur Dioxide (SO ₂)	80	µg/m ³	19.03	9.47	11.78	20.60	8.83	12.42
Nitrogen Dioxide, (NO _x)	80	µg/m ³	25.17	12.00	16.66	26.03	13.53	17.28
Carbon Monoxide(CO)	2000	µg/m ³	0.46	0.27	0.36	0.46	0.24	0.39
Ammonia (NH ₃)	400	µg/m ³	58.33	25.33	34.33	58.33	21.00	33.25
Ozone (O ₃)	100	µg/m ³	32.00	17.00	24.33	29.00	16.50	22.16
Lead (Pb)	1	µg/m ³	0.42	0.16	0.22	0.25	0.14	0.21
Arsenic (As)	6	ng/m ³	0.02	0.01	0.01	0.03	0.01	0.01
Nickel (Ni)	20	ng/m ³	36.00	0.22	3.25	31.00	0.20	2.84
Benzene (C ₆ H ₆)	5	µg/m ³	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo alpha Pyrene (BaP)	1	ng/m ³	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Environment Statement For 2018-19

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 current year (2018)
Yellow	(a) Human Anatomical Waste:	2908
	(b) Animal Anatomical Waste :	0
	(c) Soiled Waste:	47061
	(d) Expired or Discarded Medicines:	0
	(e) Chemical Waste:	0
	(f) Chemical Liquid Waste:	30852
	(g) Discarded linen, mattresses, beddings contaminated with blood or body fluid.	161
	(h) Microbiology, Biotechnology and other clinical laboratory waste:	1289
	Sub Total (Yellow)	82271
Red	Contaminated Waste (Recyclable)	48990
	Sub Total (Red)	48990
White (Translucent)	Waste sharps including Metals:	8181
	Sub Total (White)	8181
Blue	(a) Glassware:	24857
	(b) Metallic Body Implants	2415
	Sub Total (Blue)	27272

Part E

Solid Waste

Details are provided in part D

Part F

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

Environment Statement For 2018-19

Part G

Impact of Pollution control measures taken on conservation of natural sources & cost of production: N.A.

Part H

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

- Rain Water Harvesting system in TMH to be completed by October 2019
- 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.