



Shubhanand Mukesh
Head Environment Management

EMD/C-23/374/18
September 26th, 2018

The Member Secretary

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

**Subject: Environmental Statement 2017-2018 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 2017-2018 duly filled in the prescribed format is
enclosed for your kind consideration.

Thanking you

Yours faithfully,
For Tata Steel Limited

Shubhanand Mukesh
Head, Environment Management



Encl: As Above

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

TATA STEEL LIMITED

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**ENVIRONMENTAL STATEMENT
FOR THE YEAR 2017-2018**

**Tata Main Hospital
TATA STEEL LIMITED**

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

Environment Statement For 2017-18

[Form V]

**Tata Main Hospital
TATA STEEL LIMITED**

Environmental Statement for the Financial Year ending 31st March 2018

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 14, 2017 vide letter no. EMD/C-23/142/16

Environment Statement For 2017-18

Part B

WATER & RAW MATERIAL CONSUMPTION

i) Water Consumption

Water Consumption	During the previous Financial Year (2016-17)	During the current Financial year (2017-2018)
Cooling and Domestic Consumption	12,05,584 KL (3336 m ³ /day)	20,98,561KL (5749.4 m 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 (2016-17) in kg/year	During the current financial year (2017-2018) in kg/year
Fipronil	60 litres	62.4 Liters
Bleaching powder	600 kg	600 Kg
Lime dust	24 kg	20 Kg
Fuel	625 L/month	610 L
Deltamethrin	30 litres/month	31.2 Liters

Environment Statement For 2017-18

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	2016-17	2017-18	
pH	7.4	7.6	-
TSS	10.7	11.6	-
Oil & Grease	1.3	1.1	-
BOD ₃	9.3	4.9	-
COD	26.6	18.0	-
(b) Air	(mg/Nm³)		
PM	108.9	133.1	-

(c) Ambient Air Quality (2017-18)

Parameter	Norm	UoM	Max.	Min.	Average
Particulate Matter (PM ₁₀)	100	µg/m ³	86.32	102.91	93.52
Particulate Matter (PM _{2.5})	60	µg/m ³	48.63	61.86	54.52
Sulphur Dioxide (SO ₂)	80	µg/m ³	18.70	26.13	22.44
Nitrogen Dioxide, (NO ₂)	80	µg/m ³	0.30	0.71	0.53
Carbon Monoxide (CO)	2000	µg/m ³	23.00	50.67	34.94
Ammonia (NH ₃)	400	µg/m ³	23.60	28.00	25.61
Ozone (O ₃)	100	µg/m ³	0.03	0.76	0.36
Lead (Pb)	1	µg/m ³	< 0.5	< 0.5	< 0.5
Arsenic (As)	6	ng/m ³	< 0.1	< 0.1	< 0.1
Nickel (Ni)	20	ng/m ³	< 1.0	< 1.0	< 1.0
Benzene (C ₆ H ₆)	5	µg/m ³	< 0.1	< 0.1	< 0.1
Benzo alpha Pyrene (BaP)	1	ng/m ³	< 0.1	< 0.1	< 0.1

Environment Statement For 2017-18

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 (2016)
Yellow	(a) Human Anatomical Waste:	3760
	(b) Animal Anatomical Waste :	0
	(c) Soiled Waste:	32871
	(d) Expired or Discarded Medicines:	0
	(e) Chemical Waste:	0
	(f) Chemical Liquid Waste:	851
	(g) Discarded linen, mattresses, beddings contaminated with blood or body fluid.	116
	(h) Microbiology, Biotechnology and other clinical laboratory waste:	4168
	Sub Total (Yellow)	41766
Red	Contaminated Waste (Recyclable)	32681
	Sub Total (Red)	32681
White (Translucent)	Waste sharps including Metals:	14770
	Sub Total (White)	14770
Blue	(a) Glassware:	26730
	(b) Metallic Body Implants	6507
	Sub Total (Blue)	33237

Part E

Solid Waste

Details are provided in part D

Part F

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

Part G

Environment Statement For 2017-18

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

- Revamping of Rain Water Harvesting system in JGMH building.
- Mini Artificial Aquifer Recharge Structure
- Commissioning of Liquid Medical Waste Treatment Plant at TMH

Part I

Any other particulars for improving the quality of environment

- 2 Nos. of Bio-gas plant installed for utilization of Kitchen waste.