



The Member Secretary  
State Pollution Control Board  
A/118, Nilakantha Nagar, Unit-VIII  
Bhubaneswar - 751012

Ref. No.: MD/ ENV/ 820 /129/2020  
Date: 21.09.2020

**Sub: Environmental Statement of Tata Steel Hospital, Joda for 2019-20.**

Dear Sir,

Kindly find attach herewith the Environment Statement in the prescribed format (FORM V) as per "Environmental (Protection) Amendment Rules, 1992 of our Tata Steel Hospital, Joda for your kind perusal.

Thanking you,

Yours faithfully

F: Tata Steel Limited,

Chief Medical Officer  
Tata Steel Hospital, Joda

Chief Medical Officer  
**TATA STEEL HOSPITAL, JODA**  
Encl: As above

Copy to: The Regional Officer  
State Pollution Control Board  
Baniapata, College Road  
Keonjhar - 758001, Odisha

**TATA STEEL LIMITED**

Mines Division Joda Keonjhar Odisha 758 034 India  
Tel 91 7440037036

Registered Office Bombay House 24 Hornl Mody Street Fort Mumbai 400 001  
Tel 91 22 66658282 Fax 91 22 66657724

Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com

# **ENVIRONMENT STATEMENT 2019-20**



**TATA Steel Hospital, Joda**

**TATA STEEL LIMITED**

**September 2020**

**FORM - V**  
**(See Rule -14)**

**ENVIRONMENT STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31<sup>st</sup> MARCH, 2019**

**TATA STEEL HOSPITAL, JODA**

**PART-A**

1	Name and address of the owner/ occupier of the industry, operation or process	:	TATA Steel Hospital Joda, Joda West, Po.: Joda, Dist.-Keonjhar, Odisha -758034
	Agent	:	Dr Mahendra Ku. Tripathy
	Nominated Owner	:	Mr. Atul Bhatnagar, General Manager, OMQ division, Administrative Building, Noamundi Iron Mine, TATA Steel Limited PO.: Noamundi, Dist.-West Singhbhum Jharkhand - 833217  Mr T V Narendran, Managing Director, Tata Steel India & SEA, Jamshedpur-831001
2	Industry Category	:	Hospital
3	Production Capacity	:	75 Bedded Hospital
4	Year of Establishment	:	1946
5	Date of last Environmental Statement submitted.	:	25.09.2019

**PART-B**

**Water and Raw Material Consumption**

**(i) Water Consumption:**

<b><u>Consumption Head:</u></b>	<b>2018-19 (in KL)</b>	<b>2019-20 (in KL)</b>
Process	Nil	Nil
Spraying in mine pit , services	Nil	Nil
Domestic	Nil	Nil
<b>Name of the product</b>	<b>Process water consumption per product output (m3/MT)</b>	
	<b>During the Previous financial Year (2018-19)</b>	<b>During the current financial Year (2019-20)</b>
Hospital (Used in Housekeeping activity)	31300 litre	461100 litre

**ii) Raw Material Consumption**

The following items have been consumed/ utilized:

Name of Raw materials	Consumption of Raw Material	
	During previous financial year (2018-19)	During current financial year (2019-20)
Oxygen gas	1800 CFT or 50976 Kg	3820 CFT or 108,182.4 Kg
Carbon dioxide	40 CFT or 1132.80 KG	nil
Nitrous oxide	80 CFT or 2265.60 Kg	170 CFT or 4,814.4 Kg
It's a health care facility (Hospital) & thus various medicine are used for medical treatments		
<b>Electric Power:</b>		
Consumed	Has been submitted with	
Generated		

**PART-C**

**POLLUTION DISCHARGED TO ENVIROMENT/ UNIT OF OUTPUT**

**(Parameters as specified in the consent issued)**

Pollutants	Quantity of Pollutants discharged (mass / day)	Concentration of Pollutants discharges (mass / day)	Percentage of variation from prescribed standards with reasons
a) Water	At Tata Steel Hospital Joda all the liquid waste after pre-treatment connected to Effluent Treatment Plant (ETP) of 10 KLD. The treated water is consumed for plantation activities. All the water quality results of ETP are attached herewith in annexure-1.		
b) Air	At Tata Steel Hospital, Joda, for disposal of bio-medical waste, an incinerator is installed. The air emission from same is regularly been monitored.		

**PART-D**

**HAZARDOUS WASTES**

As specified under the Hazardous & Other Waste (Management & Trans boundary Movement) Rules, 2016 and amendment thereof

Hazardous Wastes	Total Quantity	
	During the previous Financial Year ( 2018-19)	During the Current Financial Year ( 2019-20)
I) From Process:	Nil	Nil
II) From Pollution Control Facility:		
▪ Bio-medical incinerator ash	38.54 Kg	35.35 Kg

**PART-E**  
**SOLID WASTES**

TATA Steel Hospital, Joda is a Health Care Facility with ICU, Blood Bank, Pathological Lab, X-ray unit, Ultra sound facility etc. The solid waste generated in hospital such as refused food, peel of fruits etc. been generated and disposed of along with municipal solid waste.

Sources	TOTAL QUALITY	
	During the previous Year (2018-19)	During the Current Year (2019-20)
a) From Process: b) From Pollution Control Facility c) i. Quantity recycled or reused within the unit ii. Quantity sold ▪ General Office Waste (garbage)	Treated water from ETP    18.64 tonnes	Treated water from ETP    18.65 tonnes

**PART-F**

**THE CHARACTERISTICS (in terms of composition and quantum) OF HAZARDOUS AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WASTES**

TATA Steel Hospital, Joda is a Health Care Facility with ICU, Blood Bank, Pathological Lab, X-ray unit, Ultra sound facility etc. Only bio-medical waste along with garbage (solid waste) is been generated. All the bio-medical waste generated are disposed off as per Biomedical waste management Rule -2016.

Yellow Category	: 746.32 kg/yr	Red Category	: 338.88 kg/yr
White Category	: 45.53 kg/yr	Blue Category	: 21.62 kg /yr
General Solid Waste	: 20.22 tonne/yr		

**DISPOSAL PRACTICE:-**

The segregation of Bio-medical waste is made from generation point and shall be disposed as per norms. Due to absence of common facility; a double chamber Incinerator has been installed at Hospital along with autoclave, shredder and other various facilities for disposal of Bio-medical waste.

The liquid chemical waste generated from pathology, blood bank etc. is pre-treated in neutralisation pit followed by treatment in 10 KLD Effluent Treatment Plant (ETP). The treated water is recycled and reused in horticultural activities.

**PART-G**  
**IMPACT OF POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION**

- For the adequate disposal of biomedical waste an Incinerator has been installed in unit.
- Plastic shredder, deep burial ash disposal, autoclave is available in hospital.
- 10 KLD Effluent Treatment Plant is been established on December 2017.
- 10 KLD Sewage treatment Plant (STP) is connected to hospital for treatment of waste.

- Pre-treatment such as neutralization of contamination of waste by using 1-2% Hypochlorite dosing and autoclaving is practiced regularly before incineration of waste.
- The hospital has enhanced the facility such as new casualty, eye operation machines, various microscopes for surgery, auto analyser etc.
- The hospital is also proposed in Ayushman Bharat the National Health Protection Scheme of Govt. of India for treatment of economically weaker section of people.

### **PART-H**


#### **ADDITIONAL MEASURES/ INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT OF POLLUTION, PREVENTION OF POLLUTION**

- The hospital spends additional environmental cost for operation and maintenance of bio-medical treatment facility apart from mines.

### **PART-I**

#### **ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF THE ENVIRONMENT**

- The hospital is an integral part of mine and has adopted & certified for the Integrated Management System (ISO 9001: 2015, ISO 14001: 2015 & ISO 45001:2018 & SA 8001) and have been certified from year 2008.
- The hospital has its own facilities such as ICU, X-ray, Ultra Sound, Pathology, Dispensary, OT, Wards, Blood bank, Medicine store with pharmacist.
- The hospital celebrated & organizes various public events for awareness such as World TB Day, World Health Day, Nutrition & dietetics day, World Heart Day, No Tobacco day, AIDS Awareness Day, Breast Feeding Day etc. and organizes various Blood donation camps.

  
Chief Medical Officer  
Tata Steel Hospital, Joda  
**Chief Medical Officer**  
**TATA STEEL HOSPITAL, JODA**

**WATER QUALITY DATA 2019-20**  
**TATA Steel Hospital, Joda**  
**(Annual Average)**

Parameters	EFFLUENT TREATMENT PLANT (ETP)		Standard
	10 KLD Inlet	10 KLD Outlet	
pH*	7.30	7.42	5.5–9.0
TSS (mg/l)	83.00	20.89	100
BOD 5 days (mg/l)	28.05	6.42	30
COD (mg/l)	178.00	25.90	250
Oil & Grease (mg/l)	ND	ND	3.0
Iron (mg/l)	2.63	0.94	3.0

ND – Not detectable