



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

MD/ ENV/ 352 /129/2019
Date – 25.09.2019

Sub: Environmental Statement of Tata Steel Hospital, Joda for 2018-19.

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

Encl: As above

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

TATA STEEL LIMITED

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Tel 91 22 66658282 Fax 91 22 66657724

Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com

ENVIRONMENT STATEMENT 2018-19



TATA Steel Hospital, Joda

TATA STEEL LIMITED

September 2019

FORM - V
(See Rule -14)

ENVIRONMENT STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31st 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 Ashok Kumar Roy
	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.	:	September 2018

PART-B

Water and Raw Material Consumption

(i) Water Consumption: (Joda east Iron Mine)

Consumption Head:	2017-18 (in KL)	2018-19 (in KL)
Process	Nil	Nil
Spraying in mine pit , services	Nil	Nil
Domestic	Nil	Nil
Name of the product	Process water consumption per product output (m³/MT)	
	During the Previous financial Year (2017-18)	During the current financial Year (2018-19)
Hospital (Used in Housekeeping activity)	30600 litre	31300 litre

ii) Raw Material Consumption

The following items have been consumed/ utilized:

Name of Raw materials	Consumption of Raw Material	
	During previous financial year (2017-18)	During current financial year (2018-19)
Oxygen gas	1800 CFT or 50976 Kg	3620 CFT or 102,518.40 Kg
Carbon dioxide	40 CFT or 1132.80 KG	nil
Nitrous oxide	80 CFT or 2265.60 Kg	120 CFT or 3398.40 Kg
It's a health care facility (Hospital) & thus various medicine are used for medical treatments		
Electric Power:		
Consumed	Nil	
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 Noamundi 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 Current Financial Year (2017-18)	During the Current Financial Year (2018-19)
I) From Process:	Nil	Nil
II) From Pollution Control Facility:		
▪ Bio-medical incinerator ash	35.58 Kg	38.54 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 Current Year (2017-18)	During the Current Year (2018-19)
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 ~17.34 tonnes	Treated water from ETP 18.64 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	: 697.21 kg/yr	Red Category	: 301.42 kg/yr
White Category	: 17.63 kg/yr	Blue Category	: 39.56 kg /yr
General Solid Waste	: 17.34 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.



10 KLD Effluent Treatment Plant (ETP) at TATA Steel Hospital Joda (Dec 2017)

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.

Anil

Chief Medical Officer
Tata Steel Hospital, Joda

WATER QUALITY DATA 2018-19
TATA Steel Hospital, Joda
(Annual Average)

Parameters	EFFLUENT TREATMENT PLANT (ETP)		Standard
	10 KLD Inlet	10 KLD Outlet	
pH*	6.53	7.36	5.5–9.0
TSS (mg/l)	121.13	19.88	100
BOD 5 days (mg/l)	37.00	5.69	30
COD (mg/l)	226.38	22.75	250
Oil & Grease (mg/l)	ND	ND	3.0
Iron (mg/l)	3.90	0.55	3.0

ND – Not detectable