



**The Member Secretary
State Pollution Control Board, Odisha
A/118, Nilakantha Nagar,
Unit - VIII
Bhubaneswar – 751 012**

MD/ ENV/ 806 /129/2023
Date: 12.09.2023

Sub: Environmental Statement of Tata Steel Hospital, Joda for 2022-23.

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

Asas
12/9/2023
**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 Odisha, At:
Baniapata, College Road, Keonjhar - 758001, Odisha**

TATA STEEL LIMITED

Mines Division Joda Keonjhar 758 034 India
Tel 91 7440037036

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

ENVIRONMENT STATEMENT 2022-23



Tata Steel Hospital, Joda

TATA STEEL LIMITED

September 2023

FORM - V
(See Rule -14)

ENVIRONMENT STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31st OF MARCH 2023

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 Suchismita Das
	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 & CEO 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.	:	21.09.2021

PART-B

Water and Raw Material Consumption

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

Consumption Head:	2021-22 (in KL)	2022-23 (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 (2021-22)	During the current financial Year (2022-23)
Hospital (Used in Housekeeping activity)	735000 litres	667400 litres

ii) Raw Material Consumption

The following items have been consumed/ utilized:

Name of Raw materials	Consumption of Raw Material	
	During previous financial year (2021-22)	During current financial year (2022-23)
Oxygen gas	3121 CFT or 134203.07 Kg	43800 liters (Central Line oxygen facility)
Carbon dioxide	nil	540 CFT or 15,282 Kg
Nitrous oxide	75 CFT or 3225.46 Kg	1540 CFT or 43,582 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 Covid-19 Hospital Joda, after pre-treatment, all the liquid waste of both Covid-19 & non-Covid area, is 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 Covid-19 Hospital, Joda, for disposal of bio-medical waste, an incinerator is installed. The air emission from same has 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 previous financial year (2021-22)	During current financial year (2022-23)
I) From Process:	Nil	Nil
II) From Pollution Control Facility:		
* Bio-medical incinerator ash	44.796 Kg	46.20 Kg

PART-E
SOLID WASTES

TATA Steel Hospital, Joda is a Health Care Facility with ICU, Blood Bank, Pathological Lab, X-ray unit, Ultrasound 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 previous financial year (2021-22)	During current financial year (2022-23)
a) From Process: b) From Pollution Control Facility c) i. Quantity recycled or reused within the unit ii. Quantity sold ▪ General Waste (garbage)	Treated water from ETP 26.93 tones	Treated water from ETP 22.55tones

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, Ultrasound facility etc. Only bio-medical waste along with garbage (solid waste) has been generated. All the bio-medical waste generated are disposed off as per Biomedical waste management Rule -2016.

Yellow Category : 2133.6 kg/yr.

Red Category: 780 kg/yr.

White Category : 46.90 kg/yr.

Blue Category: 34.2 kg /yr.

General Solid Waste: 22.55 tones/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 Centre 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, deep burial pit, safe pit for sharp waste, autoclave is available in hospital.
- 10 KLD Effluent Treatment Plant has been established in December 2017.
- 360 KLD Sewage treatment Plant (STP) is connected to hospital for treatment of waste.

- Pre-treatment of Covid-19 waste & hazardous bio-medical waste & waste bins -such as neutralization of contamination of waste by using 1-2% Hypochlorite dosing and autoclaving is practiced regularly before final waste disposal.
- The hospital has enhanced the facility such as Covid-19 ward, Covid-19 ICU & Isolation ward, new casualty, eye operation machines, laparoscopic surgery, Orthopaedic surgery, Gynae & Obstetric Surgery and 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)



50 Nm³/ Hr. Medical Oxygen Plant at Tata Steel Hospital, Joda (Sept 2021)

**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 Covid-19 ward, ICU, Isolation ward, X-ray, Ultrasound, Pathology, Dispensary, OT, Wards, Blood Centre, Medicine store with pharmacist.
- The hospital celebrated & organizes various public events for awareness such as World TB Day, World Health Day, World Diabetes Day, World Hypertension 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

ADP
12/9/2025

WATER QUALITY DATA 2022-23
TATA Steel Hospital, Joda
(Annual Average)

Parameters	EFFLUENT TREATMENT PLANT (ETP)		Standard
	10 KLD Inlet	10 KLD Outlet	
pH*	6.81	7.20	5.5-9.0
TSS (mg/l)	80.0	26.83	100
BOD 5 days (mg/l)	26.67	8.84	30
COD (mg/l)	88.17	24.48	250
Oil & Grease (mg/l)	BDL	BDL	10.0
Faecal Coliform	1.13	0.65	-

BDL - Below detection limit.