



o/c

**The Member Secretary,
Jharkhand State Pollution Control Board,
T.A. Division (Ground Floor),
H.E.C. Dhurva, Ranchi – 834004
Jharkhand**

WBD/EMC/4016/087/18
Date: 20.09.2018

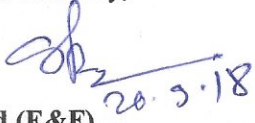
Subject: Submission of Environmental Statement of Tata Central Hospital West Bokaro for the year 2017-18

Dear Sir,

Please find enclosed herewith the duly filled "Environmental Statement" (Form-V) of **Tata Central Hospital West Bokaro** for the year 2017-18.

Kindly acknowledge the same & oblige.

Thanking you,
Yours sincerely,


Head (E&F)
West Bokaro Division
Tata Steel Ltd.

Encl: As Above

**Copy to : The Regional Officer, Jharkhand State Pollution Control Board, PTC Chowk, Matwari,
Hazaribagh – 825301 (Jharkhand)**

TATA STEEL LIMITED

West Bokaro Division Ghatotand Jharkhand 825 314 India
Tel 91 6545 262356 (O) Fax 91 6545 262221 262172
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

FORM - V
(See Rule -14)

ENVIRONMENT STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31st MARCH, 2018

UNIT: TATA CENTRAL HOSPITAL WEST BOKARO, TATA STEEL LIMITED

PART - A

- 1 Name and address of the owner/ occupier of the industry, operation or process : Dr. Ashish Roy
Chief Medical Officer,
Tata Central Hospital,
West Bokaro Division,
TATA Steel Limited, P.O.- Ghatotand
Dist. Ramgarh, Jharkhand-825314
- 2 Industry Category : Health Care Unit (HCU)
- 3 Production Capacity : 62 beds
- 4 Year of Establishment : 1946
- 5 Date of last Environmental Statement submitted. : 25th September 2017

PART - B

WATER AND RAW MATERIAL CONSUMPTION

i. Water Consumption (m3/d):

- Process : Nil
- Cooling/ Spraying in mine pits : Not Applicable
- Colony : This is included in the Environmental Statement of West Bokaro Colliery

| Name of the product | Process water consumption per product output | |
|---|--|---|
| | During the Previous Financial Year (2016-17) | During the current Financial Year (2017-18) |
| It is not a production unit only Health Care Unit | | |

ii. Raw Material Consumption:

| Name of Raw materials | Name of the product | Consumption of Raw Material per unit of output | |
|--|---------------------|--|---|
| | | During previous financial year (2016-17) | During current financial year (2017-18) |
| Health Care Unit (Hospital) thus no product is generated | | | |

PART - C

POLLUTION DISCHARGES TO ENVIRONMENT/ UNIT OF OUTPUT (PARAMETERS AS SPECIFIED IN THE CONSENT ISSUED)

| Pollutants | Quantity of pollutants discharged (mass /day) | Concentration of pollutants in discharges (mass / volume) | Percentage of variation from prescribed standards with reason |
|------------|--|---|---|
| Water | Water with adequate disinfection is made as per Bio-medical waste (Management & Handling) Rule 2016. | | |

| Pollutants | Quantity of pollutants discharged (mass /day) | Concentration of pollutants in discharges (mass / volume) | Percentage of variation from prescribed standards with reason |
|------------|--|---|---|
| Air | Due to absence of stationary source, it is difficult to measure pollutants load. However, in future an incinerator will be installed and which will be regularly been monitored. AAQ Report: Core Zone | | |
| | Parameter | Tata Central Hospital | Standard |
| | SPM | 429.00 | 700 |
| | RPM | 148.58 | 300 |
| | PM10 | 72.33 | 100 |
| | PM2.5 | 46.08 | 60 |
| | SO2 | 20.08 | 120 |
| | Nox | 43.75 | 120 |
| | All values are in ($\mu\text{g}/\text{m}^3$) | | |
| | AAQ Report: Buffer Zone | | |
| | Parameter | Pundi | Banji |
| | | Chainpur | Duni |
| | | Mukunda Beda | Standard |
| | PM10 | 51.08 | 54.92 |
| | | 68.53 | 51.60 |
| | PM2.5 | 26.05 | 32.64 |
| | | 42.75 | 30.72 |
| | SO2 | 13.44 | 14.19 |
| | | 16.78 | 13.94 |
| | Nox | 28.89 | 27.96 |
| | | 27.46 | 28.80 |
| | | 28.46 | 80 |
| | All values are in ($\mu\text{g}/\text{m}^3$) | | |
| | Due to absence of stationary source, it is difficult to measure pollutants load. So, the quantity of air pollutants discharged in Kg/day cannot be ascertained. The above data shows the average ambient air quality during 2017-18. | | |

PART-D
HAZARDOUS WASTE

[as specified under Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016]

| Hazardous Waste | Total Quantity | |
|---|---|---|
| | During the previous financial year (2016-17) | During the current financial year (2017-18) |
| a) From Process: Oil soaked cotton (jute) | No hazardous waste is generated from Hospital | |
| b) From Pollution control facilities: Used lubricating Oil | Nil | Nil |

**PART-E
SOLID WASTE**

| Solid Wastes | | Total Quantity | |
|--------------|--|--|---|
| | | During the previous financial year (2016-17) | During the current financial year (2017-18) |
| (a) | From Process: | <ul style="list-style-type: none"> • Yellow category: 475.00 • Red category: 360.00 • White category: 2.00 • Blue category: 60.00 • General Solid Waste: 350.00 | <ul style="list-style-type: none"> • Yellow category: 626.62 • Red category: 553.50 • White category: 34.17 • Blue category: 554.10 |
| (b) | From pollution control facilities | - | - |
| (c) | I. Quantity recycled or reutilized within the unit | | |
| | II. Sold (to reuse as fuel) | Nil | Nil |
| | III. Disposed | Entire (100%) Bio-medical waste is being disposed off by JSPCB authorized agency M/s Bio-Genetic Lab Pvt. Ltd., Ramgarh. | |

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

| Category of Waste | Characteristics | Quantity | Disposal Practice |
|---|-----------------|----------|-------------------|
| No hazardous waste is generated from Hospital | | | |

PART - G

IMPACT OF POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION

- In TATA Central Hospital, a Health care unit thus as per Bio-medical Waste (management & Handling) Rule-2016 all pollution abatement measure taken for smooth operations.
- The combined impact due to implementation of pollution prevention and control measures on cost per tonne of ROM coal, of entire west Bokaro division (Washery, PH, Mines, Eng. services, Logistic, etc.) is Rs. 71.74 (Rupees seventy-one and seventy-four paisa only).

In addition to the above Tata Steel Rural Development Society (TSRDS) is engaged in peripheral developmental activities in villages around the mine. The projects of the Society include irrigation and agricultural extension projects, plantation programmes, installation of solar street lights and illuminate villages on through low cost, construction of ponds in support to provision of irrigation water and for other domestic use and in recharging groundwater by arresting the flow of rainwater in downstream, creation of SAVE FOREST groups, civic amenities development, medi-care and health education, rural sports, skill development and promotion of rural cultural activities.

PART-H

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

- Additional measures for the installation of STP and further strengthening of disinfection measures for effluent has been taken up.

PART-I

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF THE ENVIRONMENT

- EMS ISO 14001 & OHSAS 18001 are being monitored and practiced strictly to protect and preserve the environment by eco-friendly operations. Also, proactively identifying any Potential hazard to become risk posing serious threat to environment. Cleanliness/ disinfection and use of proper PPEs of worker being engaged in cleaning job is being maintained regularly.

AD 25/9/18

Uday

**Dr. Ashish Roy,
Chief Medical Officer,
Tata Central Hospital West Bokaro,
TATA Steel Limited, P.O. - Ghatotand,
Dist.- Ramgarh, Jharkhand - 825314**