



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

WBD/EMC/4016/086/19

Date: 11.09.2019

Subject: Submission of Environmental Statement of Logistics (Dispatch) unit of West Bokaro Division, Tata Steel Limited for the year 2018-19

Dear Sir,

Please find enclosed herewith the duly filled “Environmental Statement” (Form-V) of **Logistics (Dispatch)** unit of West Bokaro Division, Tata Steel Ltd. for the year 2018-19.

Kindly acknowledge the same & oblige.

Thanking you,
Yours sincerely,

Wray Kashyap

**Sr. Manager (Environment Management)
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, 2019

UNIT: LOGISTICS AND DISPATCH, WEST BOKARO DIVISION, TATA STEEL LIMITED

PART - A

- 1 Name and address of the owner/ occupier of the industry, operation or process : Mr. B.V. Sudhir Kumar
Chief (CB),
West Bokaro Division, -
TATA Steel Limited, P.O.- Ghatotand
Dist. Ramgarh, Jharkhand-825314
- 2 Industry Category : Major
- 3 Production Capacity : Loading & Unloading of coal (Dispatch - 10.8 MTPA)
- 4 Year of Establishment : 1982
- 5 Date of last Environmental Statement submitted. : 20th September 2018

PART - B

WATER AND RAW MATERIAL CONSUMPTION

i. Water Consumption (m3/d):

- Process : 1.47
Cooling/ Spraying in mine pits : Not Applicable
Colony : 73.97

Name of the product	Process water consumption per product output (m3/ton)	
	During the Previous Financial Year (2017-18)	During the current Financial Year (2018-19)
It is not a production unit only loading of coal in Railway wagons takes place		

ii. Raw Material Consumption:

Name of Raw materials	Name of the product	Consumption of Raw Material per unit of output	
		During previous financial year (2017-18)	During current financial year (2018-19)
No raw material required, it is a railway loading siding where coal loading takes place.			

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	Normally the quantity of effluent is very less which is recycled, for watering to plant & spraying on the road.		
Air	Due to absence of stationary source, it is difficult to measure pollutants load. However, ambient air quality is being measured in the area. Results of ambient air quality monitoring report are enclosed herewith which confirm the prescribed limit. Details for FY'19 are as follows:		

Pollutants	Quantity of pollutants discharged (mass /day)	Concentration of pollutants in discharges (mass / volume)	Percentage of variation from prescribed standards with reason				
AAQ Report: Core Zone							
	Parameter	Logistics & Dispatch	Standard				
	SPM	476.38	700				
	RPM	147.75	300				
	PM10	58.55	100				
	PM2.5	41.53	60				
	SO2	20.19	120				
	Nox	40.16	120				
All values are in ($\mu\text{g}/\text{m}^3$)							
AAQ Report: Buffer Zone							
	Parameter	Pundi	Banji	Chainpur	Duni	Mukunda Beda	Standard
	PM10	55.58	51.96	73.42	51.59	78.37	100
	PM2.5	30.44	29.88	41.53	29.97	48.31	60
	SO2	16.99	17.29	18.50	17.64	21.27	80
	Nox	32.41	30.80	33.92	30.20	34.89	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 2018-19.							

PART-D
HAZARDOUS WASTE

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

Hazardous Waste	Total Quantity	
	During the previous financial year (2017-18)	During the current financial year (2018-19)
a) From Process: Oil soaked cotton (jute)	250 kg	0 kg
b) From Pollution control facilities: Used lubricating Oil	300 litres	910 litres

PART-E
SOLID WASTE

Solid Wastes		Total Quantity	
		During the previous financial year (2017-18)	During the current financial year (2018-19)
(a)	From Process	Nil	Nil
(b)	From pollution control facilities	-	-
(c)	I. Quantity recycled or reutilized within the unit	-	-
	II. Sold (to reuse as fuel)	Nil	Nil
	III. Disposed	-	-

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
Hazardous Waste			
1. Used Oil ~	1. Used Oil (<i>Liquid</i>)	1. 910 litres	1. Disposed off to authorized recycler.
2. Oil soaked cotton/jute	2. Used Cotton (<i>Solid</i>)	2. 0 kg	2. Safely collected and stored in impervious bin.

PART - G

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

- Adequate dust suppression arrangement is made on road. Construction of concrete road is completed.
- Dust suppression line is operational.
- 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. 87.84 (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

- Construction of 10 feet retaining wall at all along the railway track is being done. Illumination in the yard is being maintained by putting high mast tower. Sound proof cabins are installed at work area.
- Installation of proposed pipe conveyor for transportation of washed coal to loading station will further reduce dust/spillage threat significantly.

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 and prevent any potential hazard to become risk posing serious threat to environment in a proactive manner.
- Green Belt Development is being developed.

B. V. Sudhir Kumar
CHIEF (C B)
West Bokaro

Mr. B. V. Sudhir Kumar, Chief (Coal Beneficiation)
West Bokaro Colliery, TATA Steel Limited,
P.O. - Ghatotand, Dist.- Ramgarh, Jharkhand - 825314