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

WBD/EMC/4016/066/22
Date: 19.09.2022

Subject: Submission of Environmental Statement of Logistics (Dispatch) unit of West Bokaro Division, Tata Steel Limited for the year 2021-22

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 2021-22.

Kindly acknowledge the same & oblige.

Thanking you,
Yours sincerely,

Head (Environment Management)
Raw Material 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, 2022

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.	:	23.09.2021

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 (2020-21)	During the current Financial Year (2021-22)
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 (2020-21)	During current financial year (2021-22)
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 FY22 are as follows:

AAQ Report: Core Zone

Parameter	Logistics & Dispatch	Standard
SPM	271.79	700
RPM	152.70	300
SO2	25.83	120
Nox	22.31	120

All values are in (µg/m3)

AAQ Report: Buffer Zone

Parameter	Chainpur	Duni	EMC	Parsa beda	Standard
PM10	63.22	45.15	45.42	49.40	100
PM2.5	44.50	32.50	26.40	33.49	60
SO2	24.15	22.68	21.85	22.93	80
Nox	21.99	20.38	19.70	21.83	80

All values are in (µg/m3)

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 FY-22.

PART–D

HAZARDOUS WASTE

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

Hazardous Waste	Total Quantity	
	During the previous financial year (2020-21)	During the current financial year (2021-22)
a) From Process: Oil soaked cotton (jute)	0.08 ton	0.11 ton
b) From Pollution control facilities: Used lubricating Oil	0.64 KL	0.88 KL

PART–E

SOLID WASTE

Solid Wastes		Total Quantity	
		During the previous financial year (2020-21)	During the current financial year (2021-22)
(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	
	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 2. Oil soaked cotton/jute	1. Used Oil (*Liquid*) 2. Used Cotton (*Solid*)	1. 0.88 KL 2. 0.11 ton	1. Disposed-off to authorized recycler. 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.
- We have established NABL accredited & JSPCB recognised Environment Laboratory for monitoring purpose. Online Ambient Air Quality monitoring is being practiced.
- Two Sewage Treatment Plant of capacity 15 KLD & 100 KLD is installed.
- 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. 49.90.

In addition to the above Tata Steel Foundation, West Bokaro 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 pipe conveyor for transportation of washed coal to loading station will further reduce dust/spillage threat significantly.
- Green belt developed all along the boundary wall of the area.
- We have established NABL accredited & JSPCB recognised Environment Laboratory for monitoring purpose. Online Ambient Air Quality monitoring is being practiced.
- ₹ 100.00 lakhs have been planned to be spent towards strengthening environmental monitoring & laboratory, continuous monitoring systems and solid waste management.
- Mist canon procurement is in process for the fugitive dust suppression at coal stock yard.

PART-I

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF THE ENVIRONMENT

- West Bokaro Division of TATA Steel Ltd. is committed to improve safety and environment by strictly practicing Environment Management System (ISO:14001). Various programs are arranged such as Sustainability Month, Green Month, World Environmental Day, World River Day, Earth Day, Biological Diversity Day, Forestry Day, World Water Day, Van Mohotsav for public awareness. West Bokaro Division of TATA Steel Ltd. is also certified to ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018.
- The Company is having a full-fledged Environmental Management Department with personnel from relevant fields to take care of all environmental aspects relating to the mines of TATA STEEL. This department has in-house capabilities for monitoring various environmental parameters and suggesting to the management for necessary abatement measures.

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