



EMD/C-23/176/22
September 22, 2022

The Member Secretary

Jharkhand State Pollution Control Board
T.A. Division Building, HEC Campus, Dhurwa
RANCHI – 834004

Subject: Environmental Statement 2021-2022 for Bhatkunda Site, East Singhbhum of Tata Steel Limited, Jamshedpur

Dear Sir,

This has reference to the captioned subject. Please find enclosed the **“Environmental Statement”** for Bhatkunda Site, East Singhbhum of Tata Steel Limited, Jamshedpur for the year 2021-2022 duly filled in the prescribed format is enclosed for your kind consideration.

Thanking you

Yours faithfully,
For Tata Steel Limited

Anoop Srivastava

Head, Environment Monitoring Testing & Analysis (TSJ)

Encl: As Above

Copy to: Regional Officer, Jharkhand State Pollution Control Board,
Adityapur, Jamshedpur – 831013

TATA STEEL LIMITED

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ENVIRONMENTAL STATEMENT FOR THE YEAR 2021-2022

**For Storage & Processing of Solid Wastes
(LD & ACBF Slag)
Bhatkunda, Tata Steel Limited**

**Submitted by:
Environment Management Department
TATA STEEL LIMITED
JAMSHEDPUR-831001
JHARKHAND**

Environment Statement for 2021-2022

FORM-V

Environmental Statement for the financial year ending the 31/03/2022

PART-A

i)	Name and address of the owner / occupier of the industry operation or process	:	Mr T V Narendran CEO & MD TATA STEEL LIMITED Bhatkunda, Chakulia District -EAST SINGHBUM Jharkhand
ii)	Industry Category	:	Green Category
	Primary (SIC Code)	:	NIL
	Secondary (SIC Code)	:	NIL
iii)	Production Capacity	:	Storage of Solid waste (LD Slag) - 9300 Tonne/Month or 300Tonne Per Day, Storage of Solid Waste (ACBF Slag)- 6200 Tonne/Month or 200 Tonne Per day
iv)	Year of establishment	:	28/11/2019
v)	Date of last Environmental Statement submitted	:	September 22, 2021 vide letter no. EMD/C-23/255/21

PART-B

WATER & RAW MATERIAL CONSUMPTION

- i) Water Consumption, KL/day**
- Cooling : Nil
 - Domestic
 - 1. Plant : Nil
 - 2. Colony : Nil

Environment Statement for 2021-2022

Name of the product	Process water consumption per unit of product Output (m ³ /t of product)	
	During the Previous Financial year 2020-2021	During the current Financial year 2021-2022
LD & ACBF Slag (Solid Wastes)	-	-

ii) Raw Material Consumption:

Name of raw material	Name of the products	Consumption of raw material per unit of output (ton/ton of product)	
		During the Previous Financial year 2020-2021	During the current Financial year 2021-2022
LD & ACBF Slag	LD& ACBF Slag Processed	NA	NA

PART-C

POLLUTION DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT (PARAMETER AS SPECIFIED IN THE CONSENT ISSUED)

Pollutants	Concentrations Percentage of pollutants variation from in discharged prescribed (mass/volume) standards with reasons.		Percentage of pollution variation from in discharged prescribed (mass/volume) standards with reasons
	2020-2021	2021-2022	
a) WATER*	mg/lit		
pH	NA	NA	
TSS	NA	NA	-
Oil & Grease	NA	NA	-
b) AIR	µg/m³		
PM	NA	NA	-

Environment Statement for 2021-2022

PART-D

HAZARDOUS WASTES

(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Amendment Rules, 2016)

Hazardous Waste	Total Quantity (Kg)	
	During the Previous Financial year 2020-2021	During the current Financial year 2021-2022
a) From process: - Used lubricant oil	NA	NA
b) From Pollution Facilities.	NA	NA

PART-E Solid Waste

		During the Previous Financial year 2020-2021	During the current Financial year 2021-2022
a	From process		
	Any Waste Generation	NIL	NIL
b	From pollution control facilities-		Not applicable
c1	Quantities recycled or reused within the unit -		Not applicable
c2	sold-		
	LD & ACBF slag Processed	-	0
c3	Disposed -		Not applicable

PART-F

<p>Please specify the characterization (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practices adopted for both these categories of wastes.</p>	<ul style="list-style-type: none"> • LD Slag Characterization Fe(T) – 18-25; MgO – 1-2 ; CaO – 45-55; MnO – 0.5-1.0 SiO₂ – 10-12; Al₂O₃ – 0.8-1.0; P₂O₅ – 3.5-4.0; S – 0.2; TiO₂ – 0.8-1; Alkali – 0.18 • ACBF Slag Characterization CaO-35-40; SiO₂ – 30-35; Al₂O₃ – 15-18; MgO – 7-9; SO₂- 3-4; Fe₂O₃ -2-3; TiO₂ – 1-2; K₂O – 0.5-1; Na₂O – 0.5-1; MnO – 0.1-0.2; BaO – 0.1-0.2; Cl – 0.1- 0.2;
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Environment Statement for 2021-2022

PART-G

Impact of pollution control measures taken on conservation of natural resources and cost of product	Green Belt Development as per CPCB guidelines is done. 2000 Nos. of tree planted in FY'22 around the boundry and inside the yard.
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PART-H

Additional measures/investment proposal Environmental Protection including abatement of pollution prevention of pollution	Mechanized water sprinklers have been deployed to suppress the dust deposited in the plant roads at routine intervals throughout the day.
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PART-I

Particular for improving the quality of Environment	System for rainwater harvesting is in place at site. Harvested water is being stored in 3 different RCC ponds of total capacity 62,000 m ³ or individual capacities of 27,000 m ³ , 19,250 m ³ and 15,900 m ³ respectively. Stored water will be reused as a process water for operation of the site along with dust suppression in the yard. Additional measure has been taken for MIYAWAKI plantation inside yard by this technique around 5000 Nos of sapling will be planted inside yard.
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Environment Statement for 2021-2022



Plantation at IBMD Bhatkunda Site

Environment Statement for 2021-2022



Google Image of storage yard & water Ponds



RCC ponds of total capacity 62,000 m³ or individual capacities of 27,000 m³, 19,250 m³ and 15,900 m³ respectively