TSJ/EMD/C-23/181/23
28 September 2023

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

Subject: Submission of Environment Statement for Tata Steel Limited – Solid Waste storage (LD & ACBF Slag) unit at Bhatkunda, Jamshedpur for the year 2022-23

Dear Sir,

With reference to the captioned subject, we are submitting herewith the **"Environment Statement"** for Tata Steel Limited - Solid Waste storage (LD & ACBF Slag) unit at Bhatkunda, Jamshedpur for the year 2022-23 duly filled in the prescribed format for your kind consideration.

You are requested to kindly acknowledge the same and place in your records.

Thanking you

Yours faithfully,
For Tata Steel Limited

Utsav Kashyap

Utsav Kashyap
Head, Environment Clearance & Compliance (TSL)

Encl: As Above

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

TATA STEEL LIMITED
Environment Management Jamshedpur 831 001 India
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Registered Office: Bombay House, 24 Homi Mody Street, Mumbai 400001
Tel 91 22 66658282 Fax 91 22 66657724
Corporate Identity Number L27100MH 1907PLC000260 Website www.tatasteel.com

ENVIRONMENTAL STATEMENT
FOR THE YEAR 2022-23

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

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

FORM-V

Environmental Statement for the financial year ending 31/03/2023.

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, Ghatshila District: EAST SINGHBUM Jharkhand
ii)	Industry Category	:	Green Category
	Primary (SIC Code)	:	NIL
	Secondary (SIC Code)	:	NIL
iii)	Production Capacity	:	Storage of LD & ACBF Slag. (Solid Waste)-L.D. Slag -300 TPD+ACBF Slag-200TPD
iv)	Year of establishment	:	28/11/2019
v)	Date of last Environmental Statement submitted	:	September 22, 2022.

PART-B
WATER & RAW MATERIAL CONSUMPTION

i) Water Consumption, m3/day

Facility is not being used as of now. Hence consumption of water or raw material is Nil.

Process: : Nil
Cooling : Nil
Domestic 1. Plant : Nil
2. Colony : Nil

Name of the product	Process water consumption per unit of product Output (m^3/t of product)	
	During the Previous Financial year 2021-22	During the current Financial year 2022-23
LD & ACBF Processed Slag	Nil	Nil

*Note: At present Bhatkunda facility is not under running condition.

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 2021-22	During the current Financial year 2022-23
LD & ACBF Slag	LD& ACBF Slag	Nil	Nil

PART-C

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

Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of pollutants discharged (mass /volume)	Percentage of variation from prescribed standards with reason
a) WATER			
pH	Not Applicable	Not Applicable	Not Applicable
TSS	Not Applicable	Not Applicable	Not Applicable
Oil & Grease	Not Applicable	Not Applicable	Not Applicable
b) AIR	Not Applicable	Not Applicable	Not Applicable
PM	Not Applicable	Not Applicable	Not Applicable

*Note: At present Bhatkunda facility is not under running condition

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 2021-22	During the current Financial year 2022-23
a) From process:	NA	NA
b) From Pollution Facilities.	NA	NA

PART-E
Solid Waste

		During the previous financial year 2021-22	During the current financial year 2022-23
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	Nil	Nil
c3	Disposed - Not applicable		

PART-F

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.	• LD Slag Characterization Fe(T) – 18-25; MgO – 1-2 ; CaO – 45-55; MnO – 0.5-1.0 SiO_2 – 10-12; Al_2O_3 – 0.8-1.0; P_2O_5 – 3.5-4.0; S – 0.2; TiO_2 – 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;

PART-G

Impact of pollution control measures taken on conservation of natural resources and cost of product	Plastic liner is in place at the storage area of LD and ACBF slag. This is Ensuring no contamination to ground water. We do not use ground water for any process. We have developed 04 Nos of ponds for storage of rainwater, thus conserving natural resource.

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.

PART-I

Initiatives 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.