Raju Agrawal
Head, Environment Clearance & Compliance (TSL)
Environment Management

EMD/C-23/255/21
September 22, 2021

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

Subject: Environmental Statement 2020-2021 for Tata Steel Limited – Solid Waste storage (LD & ACBF Slag) unit at Bhatkunda, Jamshedpur

Dear Sir,

This has reference to the captioned subject. Please find enclosed the **"Environmental Statement"** for Tata Steel Limited - Solid Waste storage (LD & ACBF Slag) unit at Bhatkunda , Jamshedpur for the year 2020-2021 duly filled in the prescribed format is enclosed for your kind consideration.

Thanking you

Yours faithfully,
For Tata Steel Limited

Raju Agrawal
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 Fort Mumbai 400 001
Tel 91 22 66658282 Fax 91 22 66657724
Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com

ENVIRONMENTAL STATEMENT
FOR THE YEAR 2019-2020

For Storage & Processing of Solid Wastes
(LD & ACBF Slag)
Bhatkunda,
District -EAST SINGHBUM
TATA STEEL LIMITED

Submitted by:
TATA STEEL LIMITED
JAMSHEDPUR-831001
JHARKHAND

FORM-V

Bhatkunda, District -EAST SINGHBUM
TATA STEEL LIMITED, JAMSHEDPUR

Environmental Statement for the financial year ending the 31/03/2021

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 & Processing of LD & ACBF Slag. (Solid Waste)
iv)	Year of establishment	:	28/11/2019
v)	Date of last Environmental Statement submitted	:	September 18, 2020 vide letter no. EMD/C-23/412/20

PART-B

WATER & RAW MATERIAL CONSUMPTION

i) Water Consumption, KL/day

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 2019-2020	During the current Financial year 2020-2021
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 2019-2020	During the current Financial year 2020-2021
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
	2019-2020	2020-2021	
a) WATER	**mg/lit**		
TSS	NA	NA	-
Oil & Grease	NA	NA	-
COD	NA	NA	-
BOD	NA	NA	-
b) AIR	**$\mu g/m^3$**		
PM	NA	NA	-

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 2019-2020	During the current Financial year 2020-2021
a) From process: - Used lubricant oil	NA	NA
b) From Pollution Facilities.	NA	NA

PART-E
Solid Waste

		During the Previous Financial year 2019-2020	During the current Financial year 2020-2021
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

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	Green Belt Development as per CPCB guidelines is done. Total 3500 nos. of saplings of different types have been planted around the boundary this year so far.

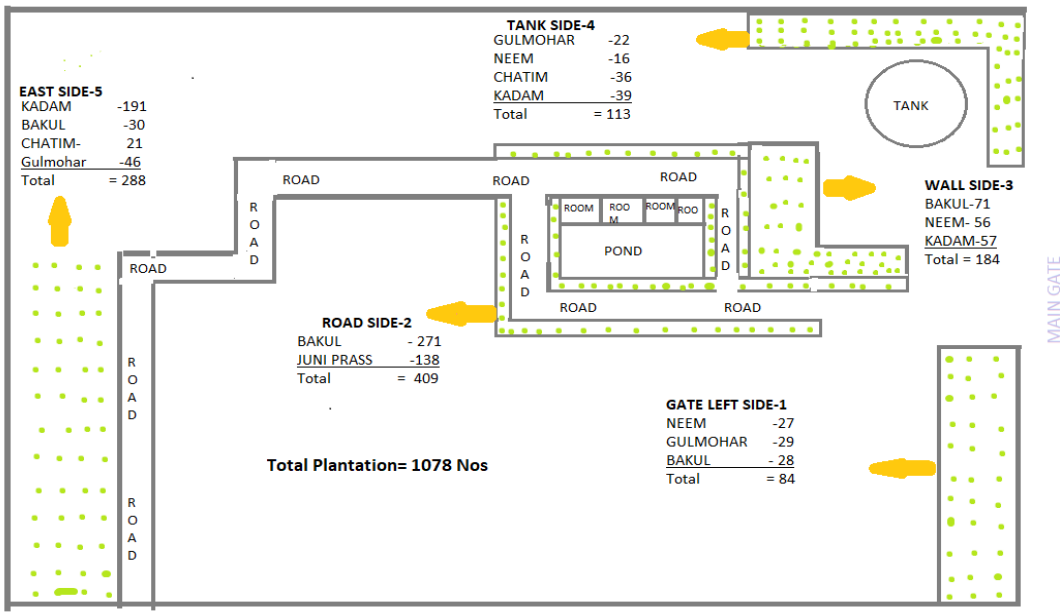
PART-H

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

ART-I

Particular for improving the quality of Environment	Green belt development is an ongoing process and is being given high priority. 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.

Plantation details of the Bhatkunda Site



Layout of Plantation at Batkunda

Google Image of Water Ponds

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