



EMD/C-23/177/22  
September 22, 2021

**The Member Secretary**

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

**Subject: Environmental Statement 2021-2022 for LD Slag Storage & Processing unit at Galudih, Ghatshila of Tata Steel Limited, Jamshedpur**

Dear Sir,

This has reference to the captioned subject. Please find enclosed the **“Environmental Statement”** for LD Slag Storage & Processing unit at Galudih, Ghatshila 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*

**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**

Environment Management Jamshedpur 831 001 India

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**ENVIRONMENTAL STATEMENT  
FOR THE YEAR 2021-2022**

**For Storage & Processing of LD Slag Galudih  
District -EAST SINGHBUM  
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 Galudih, District -EAST SINGHBUM Jharkhand
ii)	Industry Category	:	Green Category
	Primary (SIC Code)	:	NIL
	Secondary (SIC Code)	:	NIL
iii)	Production Capacity	:	42.685 & 9.02 Acres (LD Slag - 1125 TPD) & For Storage & Processing of LD Slag
iv)	Year of establishment	:	25/10/2012
v)	Date of last Environmental Statement submitted	:	September 22, 2021 vide letter no. EMD/C-23/254/21

**PART-B**

**WATER & RAW MATERIAL CONSUMPTION**

**i) Water Consumption, KL/day**

Process : 200  
Cooling : Nil  
Domestic : Nil

Name of the product	Process water consumption per unit of product Output (m <sup>3</sup> /t of product)	
	During the Previous Financial year 2020-2021	During the current Financial year 2021-2022
Processing & Storage of 1125 TPD LD Slag	0.52	0.49

**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 Slag	LD Slag Processed	NA	NA

## Environment Statement for 2021-2022

### 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	
<b>a) WATER*</b>	<b>mg/lit</b>		
pH	NA	7.8	-
TSS	NA	25.6	-
Oil & Grease	NA	1.4	-
COD	NA	8.3	-
BOD	NA	91.0	-
<b>b) AIR</b>	<b>µg/m<sup>3</sup></b>		
PM	NA	NA	-

\*No effluent is being discharged from the premises. The above quality data is of storage pond inside premises.

#### **Ambient Air Quality (2021-2022):**

Parameter	UoM	Location: Near Screener		
		Max.	Min.	Avg
Particulate Matter, PM10	µg/m <sup>3</sup>	242.0	42.7	120.1
Particulate Matter, PM2.5	µg/m <sup>3</sup>	69.0	11.9	38.0
Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	17.7	3.0	9.8
Nitrogen Dioxide, (NO <sub>2</sub> )	µg/m <sup>3</sup>	41.0	14.0	27.2
Carbon Monoxide (CO)	µg/m <sup>3</sup>	0.5	0.1	0.2
Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	168.0	18.3	67.7
Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	21.0	3.0	10.9
Lead (Pb)	ng/m <sup>3</sup>	0.1	0.1	0.1

## 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 slag Processed (MT)	1,40,510	1,77,839
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.	<ul style="list-style-type: none"> <li>• LD Slag Characterization</li> <li>Fe(T) – 18-25; MgO – 1-2</li> <li>CaO – 45-55; MnO – 0.5-1.0</li> <li>SiO<sub>2</sub> – 10-12; Al<sub>2</sub>O<sub>3</sub> – 0.8-1.0</li> <li>P<sub>2</sub>O<sub>5</sub> – 3.5-4.0; S – 0.2</li> <li>TiO<sub>2</sub> – 0.8-1; Alkali – 0.18</li> </ul>
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## Environment Statement for 2021-2022

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### **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.
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### **PART-H**

Additional measures/investment proposal Environmental Protection including abatement of pollution prevention of pollution	Water sprinkling across the dump with dedicated vehicle is done 5-6 times in day. Also 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	Green belt development is an ongoing process and is being given high priority. Dump height has been reduced by almost 15 meters for further improving the environment condition.
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## Environment Statement for 2021-2022

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Trees Plantation inside yard and along the boundary



Rainwater Harvesting Pond