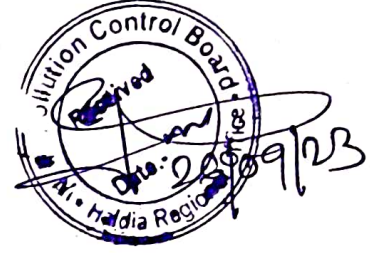




O/C

To  
The Environmental Engineer and In-charge,  
West Bengal Pollution Control Board,  
Haldia Regional Office  
Raghunathchak, PO- Barghasipur, PS- Bhabanipur  
Dist- Purba Medinipur, Pin- 721657.



TSL/HMC/ENV/FY 23/009  
September 26, 2023

**Sub: Environmental Statement for the Year 2022-23 for 1.76 MTPA Metallurgical Coke Plant at Patikhali, Haldia of Tata Steel Limited, Hooghly Metcoke Division.**

Dear Sir,

We are enclosing the "Environmental Statement" duly filled in Form V, for the year 2022-2023 for 1.76 MTPA Metallurgical Coke Plant at Patikhali, Haldia of Tata Steel Limited, Hooghly Metcoke Division, For your kind consideration.

Yours faithfully,

**For Tata Steel Limited**

Mantu Patra  
General Manager  
Tata Steel Ltd., HMC Division, Haldia

Encl: a/a.

copy to: The Member Secretary, West-Bengal Pollution Control Board,  
Paribesh Bhawan, 10A, Broadway Road, LA Block, Sector-III,  
Bidhan Nagar, Kolkata, West Bengal - 700106

**TATA STEEL LIMITED**  
Hooghly Met Coke Division

Patikhali P.O. Haldia Oil Refinery, Purba Medinipur, Haldia 721606, West Bengal, India  
Tel : 03224 251333, Fax : 03224 251305  
Registered Office : Bombay House, 24 Homi Mody Street Fort, Mumbai-400 001, India  
Tel : 91 22 6665 8282, Fax : 91 22 6665 7724  
Corporate Identity Number L27100MH1907PLC000260, Website : www.tatasteel.com

**ENVIRONMENTAL STATEMENT  
FOR THE YEAR 2022-23**

**For**

**1.76 MTPA Metallurgical Coke Plant of Tata steel Hooghly Metcoke  
Division**



**Tata steel Ltd. Hooghly Metcoke Division  
Patikhali, Haldia  
Dist- Purba Medinipur, West Bengal -721606**

# ENVIRONMENTAL STATEMENT FORM-V

(See rule 14)

Environmental Statement for the financial year 2022-23 ending with 31<sup>st</sup> March

**Tata Steel Limited**  
**1.76 MTPA Metallurgical Coke Plant at Patikhali, Haldia**  
**Dist- Purba Medinipur, West Bengal -721606**

## PART-A

i)	Name and address of the owner/ occupier of the industry, operation, or process	:	Mantu Patra General Manager Tata Steel HMC Division Patikhali, Haldia, Dist- Purba Medinipur, West Bengal -721606
ii)	Industry Category Primary/ (STC code) Secondary (STC code)	:	Large Scale Industry —
iii)	Production Capacity	:	1.76 MTPA Metallurgical Coke
iv)	Year of Establishment	:	December, 2007
v)	Date of Last Environmental /Audit Report submitted	:	26.09.2022

## PART-B

### WATER AND RAW MATERIAL CONSUMPTION

i)	<b>Water Consumption in m<sup>3</sup>/day -</b>	1648 m <sup>3</sup> /day
	Process :	
	Cooling :	1633 m <sup>3</sup> /day} industrial
	Domestic :	15 m <sup>3</sup> /day

Name of the products	Process water consumption per unit of products	
	During the previous Financial Year 2021-2022	During the Current Financial Year 2022-2023
Metallurgical Coke	0.28 cum/ton of Coke	0.375 cum/ton of Coke

### ii) Raw material consumption:

Name of Raw Material	Name of the Products	Consumption of raw material per unit of output (MT/ TGC)	
		During the Current Financial Year 2021-2022	During the Current Financial Year 2022-2023
Coking Coal	Metallurgical Coke	1.37	1.34
		Coal/Coke = (2081946/1520238)	Coal/Coke= (2143946/1601742)

## PART-C

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

Pollutants	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons*
	Kg/day	mg/Nm <sup>3</sup>	
a) Water	There is no discharge of effluent. ZLD is maintained.		
b) Air			
1	Chimney 1AB		
PM	83.71	21.80	-56.41
SO <sub>2</sub>	1193.59	310.79	-61.15
NO <sub>x</sub>	725.73	188.96	-62.21
2	Chimney 1CD		
PM	86.73	23.08	-53.84
SO <sub>2</sub>	1121.23	298.37	-62.70
NO <sub>x</sub>	675.13	179.66	-64.07
3	Chimney 2AB		
PM	85.56	21.86	-56.27
SO <sub>2</sub>	1139.34	303.27	-62.09
NO <sub>x</sub>	702.80	187.07	-62.59
4	Chimney 2 CD		
PM	101.51	26.77	-46.46
SO <sub>2</sub>	1206.15	318.07	-60.24
NO <sub>x</sub>	739.53	195.02	-61.00
5	Chimney 3 AB		
PM	78.38	21.56	-56.88
SO <sub>2</sub>	1128.71	310.46	-61.19
NO <sub>x</sub>	663.48	182.49	-63.50
6	Chimney 3 CD		
PM	80.30	21.37	-57.26
SO <sub>2</sub>	1130.06	300.75	-62.41
NO <sub>x</sub>	662.21	176.24	-64.75
7	Chimney 4 AB		
PM	92.09	24.57	-50.86
SO <sub>2</sub>	1174.36	313.35	-60.83
NO <sub>x</sub>	680.69	181.63	-63.67
8	Chimney 4 CD		
PM	86.45	22.65	-54.70
SO <sub>2</sub>	1194.07	312.85	-60.89
NO <sub>x</sub>	652.06	170.84	-65.83

**PART-D**

**HAZARDOUS WASTES**

**(AS SPECIFIED UNDER HAZARDOUS WASTES (MANAGEMENT,  
HANDLING AND TRANS BOUNDARY MOVEMENT RULES, 2016)**

Hazardous Wastes	Total Quantity (Kg)			
	During the previous Financial Year 2021-2022		During the Current Financial Year 2022-2023	
<b>1. From Process</b>	<b>Generation</b>	<b>Sold/Disposed off</b>	<b>Generation</b>	<b>Sold/Disposed off</b>
Used or spent oil (Schedules-I Stream-5.1)	2.13 KL	2.10 KL	3.876 T	2.04 T
Empty barrels /containers/liners contaminated with hazardous chemicals/ wastes (Schedules-I Stream-33.1)	1810 Kg	1150 Kg	1.08 T	1.476 T
Contaminated cotton rags or other cleaning materials (Schedules-I Stream-33.2)	610 Kg	780 Kg	0.8 T	0.357 T

**PART-E**

**SOLID WASTE**

Sl. No.	Solid waste	Total Quantity (Kg)	
		During the previous financial year 2021-22	During the current financial year 2022-23
a.	From process	4006000 Kg (swamp breeze)	3256000kg (Swamp Breeze)
b.	From Pollution Control facilities	-	-
c.	1)Quantity recycled/reutilised within the unit	-	-
	2) Sold	3524190 Kg (swamp breeze)	8656830 kg (Swamp Breeze)
	3) Disposed	Nil	Nil

### PART-F

*Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.*

<b>Hazardous/ Solid Wastes</b>	<b>Characteristics</b>	<b>Method of disposal</b>
Cotton contaminated with Oil & Grease	<i>Analysis report attached as Annexure I</i>	Disposed through TSDF of West Bengal Waste Management Ltd. (of M/s Ramky), Purba Medinipur, Haldia, WB.
Waste Ceramic		

### PART-G

*Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.*

- For collection of roof water from buildings (like ADM building / Store / Laboratory / pump house etc.) during monsoon, a storm water pond of capacity 6500 cum (approx.) has been developed. The roof water from all the buildings are collected through common storm water drain in the storm water pond. The water is used for coke quenching and other purposes like gardening, road dust suppression, water sprinkling system etc. Necessary arrangements of pipelines (3 KM) and pumps (4 Nos.) have been made for effective utilization of storm water.
- 1 No. of Mechanised road sweeping machine are deployed to maintain housekeeping of plant roads.
- Water sprinkling for road dust suppression is done through truck mounted water tanker.
- Renewal of ISO 14001:2015, ISO 45001: 2018 and ISO 9001:2018 certification done in Jun'2022 and certification is valid for 3 years.

## PART-H

*Additional measures/investment proposal for environmental protection including abatement of pollution.*

- Greenery development programme will continue in the year 2023.
- The pollution abatement measure taken like minimise spillage, maximum utilisation/ reuse of spillage; reduction of burning loss by optimising the carbonisation process; maximise power generation; arresting all kind of leakages in the oven to obtain maximum flue gas temperature etc.

## PART-I

### **MISCELLANEOUS:**

*Any other particulars in respect of environmental protection and abatement of pollution.*

- Nearly 18.50 Ha. area is being considered as Green belt. As on date, total 27500 number of trees are surviving, and total Green Belt area is approximately 26% of the total 72.5 Ha plant area.
- 42000 sq. meter of garden landscape are being maintained inside plant.
- During World Environment Day (5<sup>th</sup> June 2023), 1200 nos. of saplings of fruit bearing trees were distributed. Environmental Awareness through different programmes like quiz competition, drawing competition, tree plantation etc. were done during June'23.
- To maintain housekeeping of plant roads, mechanised road sweeping machines is operated.
- Regular Environmental Monitoring is carried out.
- One No. of Online AAQM station is in operation along with Digital Display Board.
- 08 nos. of CEMS in all the stacks are in operation.
- In FY 2023, 130 kg of e-wastes disposed through M/s Justdispose Recycling Pt. Ltd, 103/104, Arvind industrial Estate, Navghar, Maharashtra
- In FY 2023, 6.14 Kgs of Biomedical wastes generated in plant's First Aid centre were segregated & collected at source and disposed through West Bengal Waste Management limited Haldia (Ramky).