EMD/C-23/170/22
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 1290 TPD Air Separation Unit (ASU) of Tata Steel Limited, Jamshedpur

Dear Sir,

This has reference to the captioned subject. Please find enclosed the **"Environmental Statement"** for 1290 TPD Air Separation Unit (ASU) 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
Tel 91 657 6640415 8092094575 (M) e-mail anoop.srivastava@tatasteel.com
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 2021- 2022

1290 TPD Air Separation Unit (ASU) TATA STEEL LIMITED

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

FORM – V

Environment Statement Report for the Year ending 31/03/2022

PART-A

I)	Name and address of the occupier	:	Mr. T. V. Narendran Managing Director Tata Steel Limited, Jamshedpur-831001 Jharkhand
II)	Industry Category Primary (SIC Code) Secondary (SIC Code)	: : :	Green Not available Not available
III)	Production capacity	:	Oxygen- 1290 TPD, Nitrogen - 455 TPD, Argon - 55 TPD
IV)	Year of establishment	:	1998
V)	Date of last environmental statement submitted.	:	September 22, 2021 vide letter no. EMD/C-23/253/21

PART-B
WATER & RAW MATERIAL CONSUMED

i) Water Consumption (m^3/day)

Water Consumption	During the previous Financial Year (2020-21)	During the current Financial year (2021-22)
Industrial Consumption (Process & Cooling as Makeup water)	920 m3/day	1297 m3/day
Domestic Consumption (as drinking water)	108 m3/day	120 m3/day

Name of the product	**Process water consumption per unit of product Output**	
	During the previous Financial Year (2020-21)	During the current Financial year (2021-22)
• GO (Gaseous Oxygen) • MPN (Medium Pressure Nitrogen) • LO (Liquid Oxygen) • HPN (High Pressure Nitrogen) • LPN (Low pressure nitrogen) • LN (Liquid Nitrogen) LA (Liquid Argon)	Nil (Water is being used exclusively for Industrial Cooling purposes)	Nil (Water is being used exclusively for Industrial Cooling purposes

ii) Raw Material Consumption:

Name of Raw Material	**Name of the Products**	**Consumption of raw material**	
		2020-2021	**2021-2022**
		MT/Yr.	**MT/Yr.**
Atmospheric Air	Air Separation Unit	11,61,371	19,82,361

PART-C

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

Pollutants	Quantity of pollutants Discharged (mass/day)		Concentrations of pollutants discharged (mass / volume)		Percentage of variation from prescribed (standards with reasons.)
a) WATER*	kg/day		mg/L		
	2020-2021	2021-2022	2020-2021	2021-2022	
pH	-	-	7.7	7.6	-
TSS	-	-	12.8	14.0	-
Oil & Grease	-	-	1.4	1.0	-
BOD	-	-	7.6	7.0	-

*No effluent is being discharge outside the premises. The treated effluent is being recirculated in the process.

Ambient Air Quality (2021-22)

Parameter	Standard	UoM	Behind Admin Building			Near Cooling Tower		
			Max	Min	Avg	Max	Min	Avg
Particulate Matter, PM_{10}	**100**	µg/m^3	289.4	32.8	134.5	306.7	30.8	130.1
Particulate Matter, $PM_{2.5}$	**60**	µg/m^3	73.7	19.6	41.1	84.2	17.8	42.4
Sulphur Dioxide (SO_2)	**80**	µg/m^3	25.8	2.4	9.3	26.1	6	13.2
Nitrogen Dioxide, (NO_x)	**80**	µg/m^3	69.4	15.2	33.6	62	24.9	38.4
Carbon Monoxide(CO)	**2000**	µg/m^3	0.3	0.23	0.3	0.27	0.22	0.2

PART-D

HAZARDOUS WASTES

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

Hazardous Wastes	Total Quantity (Tonne/year)	
	2020-21	2021-22
Waste Oil	-	-
Used Oil	11.6	-

PART-E

SOLID WASTES

		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
c	Quantities recycled or reused within the unit -		Not applicable

PART - F

Characteristics of hazardous as well as solid wastes and their method of disposal:

Hazardous / Solid wastes	Characteristics	Method of disposal
NA	NA	NA

PART - G

Impact of pollution control measures on conservation of natural resources and consequently on the cost of production.	We have grown greenery in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity.

PART - H

Additional investment proposal for environmental protection including abatement of pollution	We have implemented the Rain Water Harvesting facility.

PART – I

Any other particulars for improving in respect of environmental protection and abatement of pollution.	The unit is ISO: 14001:2015 certified.