



TSJ/EMD/C-23/180 /23

28 Sept 2023

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

Sub.: Submission of Environmental Statement (Form 5) for 1290 TPD Air Separation Unit (ASU) of Tata Steel Limited, Jamshedpur for the year 2022-23

Dear Sir,

With the reference to the captioned subject, we are herewith submitting the Environmental Statement (Form 5) for 1290 TPD Air Separation Unit (ASU) of Tata Steel Limited, Jamshedpur for the year 2022-23.

Requesting you to kindly acknowledge the same and put in your records for future reference.

Your faithfully
For Tata Steel Limited

**Head Environment Clearance& Compliance
Tata Steel Limited**

Encl.: As above

Copy to: The Regional Officer, Jharkhand State Pollution Control Board,
Regional Office-cum-Laboratory MB/15,
New Housing Colony, Adityapur, Jamshedpur

TATA STEEL LIMITED

Environment Management Jamshedpur 831 001 India

Mob- 8092087043 (M) e-mail utsav.kashyap@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 2022-23**

**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 31/03/2023.

PART-A

I)	Name and address of the occupier	:	Mr. T. V. Narendran Managing Director Tata Steel Limited, Jamshedpur-831001 Jharkhand
II)	Industry Category	:	Green
	Primary (SIC Code)	:	Not available
	Secondary (SIC Code)	:	Not available
III)	Production capacity	:	Oxygen- 1290 TPD, Nitrogen - 615 TPD, Argon - 102.5 TPD
IV)	Year of establishment	:	1998
V)	Date of last environmental statement submitted.	:	Sept 22, 2022, vide letter. no. EMD/C-23/170/22

PART-B

WATER & RAW MATERIAL CONSUMED

i) Water Consumption (m³/day)

Process & Cooling : 1199

Domestic Consumption: 116

Name of the product	Process water consumption per unit of product Output	
	During the previous financial Year (2021-22)	During the current financial year (2022-23)
<ul style="list-style-type: none"> • GO (Gaseous Oxygen) • MPN (Medium Pressure Nitrogen) • LO (Liquid Oxygen) • HPN (High Pressure Nitrogen) • LPN (Low pressure nitrogen) • LN (Liquid Nitrogen) • LA (Liquid Argon) 	1.30 m3/ton of product	1.43 m3/ton of product

ii) Raw Material Consumption:

Name of Raw Material	Name of the Products	Consumption of raw material per unit of output (MT/Yr.)	
		During Previous Financial Year (2021-22)	During Current Financial Year (2022-23)
Atmospheric Air	Oxygen, Nitrogen & Argon	19,82,361	20,05,544

PART-C

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

Pollution	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		
	2021-22	2022-23	2021-22	2022-23	
Not Applicable*					
b) AIR	Kg/day		mg/Nm3		
Not Applicable*					

*No process effluent is being discharged outside the premises as the Unit is Zero Effluent discharge unit

*No stack present in the unit since it is an Air Separation Unit, and it is a Green Category Industry.

PART-D

HAZARDOUS WASTES

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

Hazardous Wastes	Total Quantity (Tonne/year)	
	During Previous Financial Year (2021-22)	During Current Financial Year (2022-23)
Used Oil	NIL	NIL

PART-E

SOLID WASTES

All other solid waste is like domestic and canteen waste is being routed through TSUISL for further management and handling.

PART - F

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

Name of Wastes	Characteristics	Disposal Method
Used Oil	Oily	Auctioned to PCB authorised recyclers

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

1. Rainwater Harvesting facility is in place for reduction of freshwater consumption.
2. R-32 is being used as the refrigerant in all the air-conditioners which is a balanced refrigerant and has a global warming potential that is one-third lower and is remarkable for its low environmental impact and is energy efficient.

PART – H

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

1. We have grown greenery in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity.

PART – I

Any other particulars for improving the quality of the environment.

1. The unit is ISO: 14001:2015 certified.