TSJ/EMD/C-23/176/23
September 26, 2023

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

Subject: Submission of Environment Statement for Cold Rolling Mill Complex at Bara, Tata Steel Limited, Jamshedpur for the year 2022-23

Dear Sir,

With reference to captioned subject, we are submitting herewith the Environment Statement for Cold Rolling Mill Complex at Bara, Tata Steel Limited, Jamshedpur for the year 2022-23 duly filled in the prescribed format for your kind consideration.

You are requested to kindly acknowledge the same and place in your records.

Thanking you

Yours faithfully,
For Tata Steel Limited

Utsav Kashyap

Utsav Kashyap
Head Environment Clearance & Compliance (TSL)

Enclosures as above

Copy to: Regional Officer, Jharkhand State Pollution Control Board, Jamshedpur

TATA STEEL LIMITED
Environment Management Jamshedpur 831 001 India
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Registered Office: Bombay House, 24 Homi Mody Street, Mumbai 400001
Tel 91 22 66658282 Fax 91 22 66657724
Corporate Identity Number L27100MH 1907PLC000260 Website www.tatasteel.com

ENVIRONMENTAL STATEMENT
FOR THE YEAR 2022-23

Cold Rolling Mill Complex, Bara
TATA STEEL LIMITED

Submitted by:
ENVIRONMENTAL MANAGEMENT DEPARTMENT
TATA STEEL LIMITED
JAMSHEDPUR-831001
JHARKHAND

[Form V]

Environmental Statement for the financial year ending 31/03/2023

PART-A

(i)	**Name & address of the owner/occupier of the industry operation or process:**	Mr. T.V. Narendran CEO & MD Tata Steel Limited Jamshedpur-831001 East Singhbhum, Jharkhand
(ii)	**Industry Category**	Orange Category
	Primary STC Code:	3316
	Secondary SIC Code	Nil
(iii)	**Production Capacity**	0.8 MTPA
(iv)	**Year of Establishment**	2011
(v)	**Date of last Environment Statement submitted**	September 22, 2022 vide letter no. EMD/C-23/169 /22

PART-B

WATER & RAW MATERIAL CONSUMPTION

i) Water Consumption m3/day

Process & Cooling : 1312

Domestic Consumption : 287

Name of the product	**Process water consumption/unit of product output (m3/t)**	
	During the Previous Financial year (2021-22)	During the Current Financial year (2022-23)
Cold Rolling Mill	0.78	0.79

ii) Raw Material Consumption:

Name of raw material	**Name of the products**	**Consumption of raw material per unit of output (kg/tons of Output Product)**	
		During the Previous Financial year (2021-22)	During the Current Financial year (2022-23)
Hot rolled coil	Cold Rolling Mill	1020	1017
Hydrochloric acid (32% Industrial Grade)		2.95	3.02

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
(a) Water	**(tonnes/day)**		**(mg/L)**		
Parameter	**2021-22**	**2022-23**	**2021-22**	**2022-23**	
Total Suspended Solids	0.013	0.014	56.9	56.4	-44
BOD	0.002	0.001	7.4	6.0	-80
COD	0.021	0.020	100.0	82.1	-67
Oil & grease	0.001	0.001	3.5	2.7	-73
(a) Air	**(Kg/day)**		**(mg/Nm^3)**		
Parameter	**2021-22**	**2022-23**	**2021-22**	**2022-23**	
PM	26.9	11.6	8.92	4.79	-97
SO_2	7.2	3.5	2.38	1.43	-
NOx	13.4	15.4	4.45	6.32	-

PART-D
Hazardous Waste
[As Specified under Hazardous and Other Wastes
(Management and Transboundary Movement) Rules, 2016]

Hazardous Wastes	Total Quantity (Tonne/year)	
	2021-22	**2022-23**
(a) From Process		
Used Oil and oily scum	628.36	581
Iron Oxide Sludge	27.21	9.54
Oil-soaked cotton waste	-	26.6
Grinding sludge	2.62	3.54
(b) From pollution control facilities		
ETP Sludge	220.98	272

PART-E
Solid Waste

Sl. No.	Solid Waste	Total Quantity (In Tonnes)	
		2021-22	2022-23
a.	From process ▪ Metallic waste	22,700	25,977
b.	From Pollution Control facility ▪ Iron Oxide from Acid Regeneration Plant	3,268.6	3,068
c.	(1) Quantity recycled within the unit	22,700	25,977
	(2) Sold	3,268.6	3,068
	(3) Disposed	Nil	Nil

PART-F

Please specify the characterization (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
Iron Oxide	Ferrous	Auctioned to recyclers through Industrial By-products Management Division, Tata Steel
Metallic waste	Ferrous	Auctioned to outside party/ Sent inside Tata Steel for recycle
Used/ Oily scum	Oily	Disposal to TSDF
Iron Oxide Sludge	Ferrous & Oily sludge	Disposal to TSDF
ETP Sludge	Sludge	Disposal to TSDF
Oil-soaked cotton waste	Oily	Disposal to TSDF
Grinding sludge	Sludge	Disposal to TSDF

PART-G

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

- 3 no's of online Stack Monitoring system established (Boiler, ARP and Pickling)
- Green belt development:
  - Approx. 3.5 Ha area in and around plant (more than 33% of the plant area)
  - We have planted 13320 no. of samplings in the above area till date.
  - Density of plantation > 3000 plants/Ha which is more than CPCB guidelines.
- Rainwater harvesting: New pond Rejuvenated inside CRM Bara Complex. The pond comprises of two large and three small ponds and serves the purpose of rainwater harvesting and in maintaining the biodiversity of the surrounding area. This has resulted in accumulating 82,320 m3 rainwater and improving the biodiversity in the area.
- Replaced the underground water pipeline with the overhead pipeline to address leakage.

PART-H

Additional measures/investment proposal of environmental protection including abatement of pollution Measures taken:

- Zero effluent discharge plant is planned to set up.
- Additional fume exhaust scrubber placed for pickling line rinse tanks.
- Water sprinkling at plant premises to suppress dust emission due to vehicle movement.

PART-I

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

- CRM Bara is certified to Environment Management System, ISO-14001:2015, and ISO-45001:2018.