Dr. Amit Ranjan Chakraborty
Chief Environment Management

EMD/C-23/405/20
September 18th, 2020

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

Subject: Environmental Statement 2019-2020 for Cold Rolling Mill Complex of Tata Steel Limited at Bara, Jamshedpur

Dear Sir,

This has reference to the captioned subject. Please find enclosed the **"Environmental Statement"** for Cold Rolling Mill Complex of Tata Steel Limited at Bara, Jamshedpur for the year 2019-20 duly filled in the prescribed format is enclosed for your kind consideration.

Thanking you

Yours faithfully,
For Tata Steel Limited

Dr. Amit Ranjan Chakraborty
Chief, Environment Management

Encl: As Above

Copy to: Regional Officer, Jharkhand State Pollution Control Board, Adityapur, Jamshedpur – 831 013

TATA STEEL LIMITED
Environment Management Jamshedpur 831 001 India
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Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001 India
Tel 91 22 66658282 Fax 91 22 66657724
Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com

ENVIRONMENTAL STATEMENT
FOR THE YEAR 2019-2020

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 31/03/2020

PART-A

(i)	**Name & address of the owner/occupier of the industry operation or process:**	Mr. T. V Narendran Managing Director Tata Steel Limited Jamshedpur-831001 Jharkhand
(ii)	**Industry Code**	3316
	Primary STC Code:	Metallurgical industry
	Secondary SIC Code	Cold rolling of flat strip
(iii)	**Production Capacity**	0.8 MTPA
(iv)	**Year of Establishment**	2011
(v)	**Date of last Environment Statement submitted**	September 20th, 2019 vide letter no. EMD/C-23/210/19

PART-B

WATER & RAW MATERIAL CONSUMPTION

i) Water Consumption m^3/day

Process: } **1096 m3 / Day**
Cooling: }

Domestic: **206 m^3 / Day**

Name of the product	**Process water consumption/unit of product output**	
	During the current Financial Year (2018-19)	During the current Financial Year (2019-20)
Full Hard Cold Rolled Coils, HR Pickled Coils and Hot rolled pickled and skin passed coils	0.43 m3/T	0.65 m3/T

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 current Financial Year (2018-19)	During the current Financial Year (2019-20)
Hot rolled coil	Full Hard Cold Rolled Coils, HR Pickled Coils and Hot rolled pickled and skin passed coils	1031	1020
Hydrochloric acid (32% Industrial Grade)		5.80	3.97

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					
	(Kg/day)		**(mg/L)**		
Parameter	**2018-19**	**2019-20**	**2018-19**	**2019-20**	
Oil & grease	0.32	0.66	1.07	2.3	-
Total Suspended Solids	3.72	14.45	12.37	35.9	-
COD	9.82	18.81	32.67	47.9	-
(b) Air					
	(Tons/day)		**(mg/Nm^3)**		
Parameter	**2018-19**	**2019-20**	**2018-19**	**2019-20**	
PM	0.034	0.029	42.49	31.60	-
SO_2	0.008	0.002	29	3.27	-
NOx	0.012	0.024	45.37	58.71	-

PART-D

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

Hazardous Waste	Total Quantity (in Tons)	
	During the Current Financial Year (18-19)	During the Current Financial Year (19-20)
(a) From Process		
Waste Oil	888.63	677.60
Discarded Containers(Solid)	1338 Nos	697 Nos
Sludge Cake	47.58	138.86
Cotton waste	11	7.12

PART-E

Solid Waste

Total Quantity Generated

Name of the Waste	Total Quantity Generated (in Tons)	
	During the Previous Financial Year (2018-19)	During the Current Financial Year (2019-20)
a) From Process Metallic waste	18298.68	23893.21
(b) From Pollution Control Equipment Iron Oxide from Acid Regeneration Plant	3091	3047.16
(c) Total Quantity Recycled/ Re utilized within the unit	Nil	Nil

PART-F

Characteristics of solid and hazardous waste and method of disposal

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/Waste Oil/ Oil scum	Non-ferrous	Recycled by registered recyclers
Sludge cake	Ferrous & oily sludge	Recycled by registered recyclers

PART-G

Sl. No.	Pollution abatement Measures taken in 2019-20	Impact on conservation of natural resources & others
1	Green Belt Development-in and around CRM Bara Numbers of Plant: 1020 nos. of saplings during April 2019 to March 2020 inside plant, in the periphery and other available spaces.	Reduce air pollution
2	Rain water harvesting • Two numbers of Rain water harvesting structures have been made having total capacity of 25 KL. • New water body is also developed which will cater rain water harvesting at Bara complex.	Reduction in Domestic water consumption.

PART-H

Additional measures/investment proposal of environmental protection including abatement of pollution

Measures taken:

- Green belt development in and around the plant.
- Water sprinkling at plant premises to suppress dust emission due to vehicle movement.
- One Online ambient air quality monitoring has been provided inside CRM Complex Bara and Continuous stack monitoring facilities has been provided in boiler stack and SB Machine.
- Fume extraction system including scrubber, fume extraction ductwork and fan has been installed in pickling line. Ventilation system has also been installed. Water sprinkling and mechanized sweeping machine frequency has been increased to control duct emission.

PART-I

Any other particulars for improving the quality of environment

- Environment Management System, ISO-14001:2015 is implemented.
- CRM Bara has rejuvenated an abandoned ash pond into beautiful pond near Cold Rolling Mill of Tata Steel Ltd in the Bara area of Jamshedpur Town. The pond comprises of one large and two small lakes and serves the purpose of rainwater harvesting and in maintaining the biodiversity of the surrounding area. This has resulted in accumulating 82,320 m^3 rain water and improving the biodiversity in the area.