



**Raju Agrawal**  
Head, Environment Clearance & Compliance (TSL)  
Environment Management

EMD/C-23/248/21  
September 22, 2021

**The Member Secretary**

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

**Subject: Environmental Statement 2020-2021 for Cold Rolling Mill Complex at Bara of Tata Steel Limited, Jamshedpur**

Dear Sir,

This has reference to the captioned subject. Please find enclosed the “**Environmental Statement**” for Cold Rolling Mill Complex at Bara of Tata Steel Limited, Jamshedpur for the year 2020-2021 duly filled in the prescribed format is enclosed for your kind consideration.

Thanking you

Yours faithfully,  
**For Tata Steel Limited**

**Raju Agrawal**  
**Head, Environment Clearance & Compliance (TSL)**

Encl: As Above

Copy to: Regional Officer, Jharkhand State Pollution Control Board, Adityapur,  
Jamshedpur – 831013

**TATA STEEL LIMITED**

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Tel 91 22 66658282 Fax 91 22 66657724  
Corporate Identity Number L27100MH1907PLC000260 Website [www.tatasteel.com](http://www.tatasteel.com)

**ENVIRONMENTAL STATEMENT  
FOR THE YEAR 2020-2021**

**Cold Rolling Mill Complex, Bara  
TATA STEEL LIMITED**

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

# Environmental Statement 2020-2021

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## [Form V]

### Environmental Statement for the financial year ending 31/03/2021

#### PART-A

<b>(i)</b>	<b>Name &amp; address of the owner/occupier of the industry operation or process:</b>	Mr. T.V. Narendran CEO & MD Tata Steel Limited Jamshedpur-831001 East Singhbhum, Jharkhand
<b>(ii)</b>	<b>Industry Code</b>	3316
	<b>Primary STC Code:</b>	Metallurgical industry
	<b>Secondary SIC Code</b>	Cold rolling of flat strip
<b>(iii)</b>	<b>Production Capacity</b>	0.8 MTPA
<b>(iv)</b>	<b>Year of Establishment</b>	2011
<b>(v)</b>	<b>Date of last Environment Statement submitted</b>	September 18, 2020 vide letter no. EMD/C-23/405/20

**PART-B**

**WATER & RAW MATERIAL CONSUMPTION**

**i) Water Consumption m<sup>3</sup>/day (2020-21)**

Process: }  
 Cooling: } **1192 m<sup>3</sup> / Day**

Domestic: **201 m<sup>3</sup> / Day**

Name of the product	Process water consumption/unit of product output	
	During the Previous Financial Year (19-20)	During the Current Financial Year (20-21)
Full Hard Cold Rolled Coils, HR Pickled Coils and Hot rolled pickled and skin passed coils	0.65 m <sup>3</sup> /T	0.85 m <sup>3</sup> /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 Previous Financial Year (19-20)	During the Current Financial Year (20-21)
Hot rolled coil	1. Full Hard Cold Rolled Coils, 2. HR Pickled Coils and	1020	1036
Hydrochloric acid (32% Industrial Grade)	3. Hot rolled pickled and skin passed coils	3.97	2.58

# Environmental Statement 2020-2021

## 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
<b>(a) Water</b>					
	<b>(Kg/day)</b>		<b>(mg/L)</b>		
<b>Parameter</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2019-20</b>	<b>2020-21</b>	
Oil & grease	0.66	0.88	2.3	1.5	-85
Total Suspended Solids	14.45	2	35.9	11.4	-88.6
COD	18.81	16	47.9	61.8	-75.28
<b>(b) Air</b>					
	<b>(Tons/day)</b>		<b>(mg/Nm<sup>3</sup>)</b>		
<b>Parameter</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2019-20</b>	<b>2020-21</b>	
PM	0.029	0.03	31.60	26.5	-82.3
SO <sub>2</sub>	0.002	0.001	3.27	6.27	-
NO <sub>x</sub>	0.024	0.007	58.71	41.35	-

# Environmental Statement 2020-2021

## **PART-D**

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

<b>Hazardous Waste</b>	<b>Total Quantity (in Tons)</b>	
	During the Previous Financial Year (19-20)	During the Current Financial Year (20-21)
<b>(a) From Process</b>		
Waste Oil (Oil Scum)	677.60	207
Discarded Containers (Solid)	697 Nos	631 Nos
ETP Sludge	138.86	176

## **PART-E** **Solid Waste**

### **Total Quantity Generated**

<b>Name of the Waste</b>	<b>Total Quantity Generated (in Tons)</b>	
	During the Previous Financial Year (19-20)	During the Current Financial Year (20-21)
a) From Process Metallic waste	23,893.2	17,990
(b) From Pollution Control Equipment Iron Oxide from Acid Regeneration Plant	3047.2	2674.4
(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	Disposal to TSDF
ETP Sludge	Ferrous & Oily sludge	Disposal to TSDF

**PART-G**

Sl. No.	Pollution abatement Measures taken in 2020-21	Impact on conservation of natural resources & others
1	<p>Green Belt Development-in and around CRM Bara</p> <p>Numbers of Plant: More than 5000 nos. of plantation done during April 2020 to March 2021 in the other available spaces.</p>	Reduce air pollution
2	<p>Rainwater harvesting</p> <ul style="list-style-type: none"> <li>• Two numbers of Rainwater harvesting structures have been made having total capacity of 25 KL.</li> <li>• New pond Rejuvenated inside CRM Bara Complex. 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 m3</li> </ul>	Reduction in water consumption.

## Environmental Statement 2020-2021

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	rainwater and improving the biodiversity in the area.	
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### **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, Continuous stack monitoring facilities for boiler stack, and Online Effluent monitoring station are commissioned inside CRM Bara; these online monitoring systems are connected with JSPCB server.
- Fume extraction system including scrubber, fume extraction ductwork and fan has been installed in pickling line. 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**

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