



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2023

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000062279

### Submitted Date

30-09-2023

## PART A

### Company Information

#### Company Name

Tata Steel Limited - Cold Rolling Complex  
(West)

#### Application UAN number

0000106989

#### Address

Plot No. S-76, MIDC, Tarapur Industrial  
Area, Post Box 22, Tarapur Industrial  
Estate Post Office, Dist. Palghar,  
Maharashtra.

#### Plot no

S-76

#### Taluka

Palghar

#### Village

Boisar

#### Capital Investment (In lakhs)

14337.34

#### Scale

LSI

#### City

Boisar

#### Pincode

401506

#### Person Name

Mr. Anand Kumar

#### Designation

Manager - EHS

#### Telephone Number

9765988208

#### Fax Number

02525272015

#### Email

dmokal@tatasteel.com

#### Region

SRO-Tarapur I

#### Industry Category

Red

#### Industry Type

R44 Industry or process involving metal surface treatment or process such as pickling/ electroplating/paint stripping/ heat treatment using cyanide bath/ phosphating or finishing and anodizing / enamellings/ galvanizing

#### Last Environmental statement submitted online

yes

#### Consent Number

Format1.0/CAC/UAN  
No.0000106989/CR2202000726

#### Consent Issue Date

2022-02-11

#### Consent Valid Upto

2024-02-24

#### Establishment Year

1993

#### Date of last environment statement submitted

Sep 29 2022 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Cold Rolled Steel Coils & Sheet

#### Consent Quantity

210000

#### Actual Quantity

209818

#### UOM

MT/A

Hot Rolled Pickled Skin Passed Coil

90000

88945

MT/A

### By-product Information

<b>By Product Name</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
NA	0	0	MT/A

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

<b>Water Consumption for Process</b>	<b>Consent Quantity in m3/day</b>	<b>Actual Quantity in m3/day</b>
Cooling	200.00	68.60
Domestic	510.00	233.40
All others	21.00	18.80
<b>Total</b>	0.00	0.00
	731.00	320.80

### 2) Effluent Generation in CMD / MLD

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Trade Effluent	200	84.19	CMD
Domestic Effluent	17	15	CMD

### 2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Combined Product - Cold Rolled Steel Coils and sheet and Hot Rolled Pickled Skin Passed Coils	0.506	0.37	Ton/Ton

### 3) Raw Material Consumption (Consumption of raw material per unit of product)

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Regenerated HCL Acid	0.0319	0.0326	Ton/Ton
Rolling Oil	0.000282	0.000199	Ton/Ton
Alkali	0.00025	0.000273	Ton/Ton

### 4) Fuel Consumption

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
PNG (MT/D)	21	11.45	MT/A
HSD (LTR/A)	2400	1800	Ltr/A

## Part-C

### Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

#### [A] Water

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
Suspended Solids	0	0	NA	100	WE ARE ZLD HENCE NO DISCHARGE

BOD	0	0	NA	30	WE ARE ZLD HENCE NO DISCHARGE
COD	0	0	NA	250	WE ARE ZLD HENCE NO DISCHARGE
Oil & Grease	0	0	NA	10	WE ARE ZLD HENCE NO DISCHARGE
pH	0	0	NA	5.5-8.5	WE ARE ZLD HENCE NO DISCHARGE
Heavy Metal - Lead	0	0	NA	0	WE ARE ZLD HENCE NO DISCHARGE
Heavy Metal - Zinc	0	0	NA	0	WE ARE ZLD HENCE NO DISCHARGE
Heavy Metal - Iron	0	0	NA	0	WE ARE ZLD HENCE NO DISCHARGE
Heavy Metal - Copper	0	0	NA	3	WE ARE ZLD HENCE NO DISCHARGE

### **[B] Air (Stack)**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged (Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
Aquatherm - I Sulphur Dioxide - Kg/Day	0.43	4.9	0	30	PNG FUEL
Aquatherm - I Particulate Matter - Kg/Day	0.963	11	0	50	PNG FUEL
Aquatherm - II Sulphur Dioxide - Kg/day	0.34	4.33	0	30	PNG FUEL
Aquatherm - II Particulate Matter - Kg/Day	0.549	7	0	50	PNG FUEL
Acid Fume Scrubber - Acid mist - Kg/Day	15.52	18.7	0	35	APC System
Alkaline Fume Scrubber SO2/SPM - Kg/Day	0	0	0	0	Caustic Scrubber
D.G. Set - 250 KVA SO2 - Kg/Day	10.8	463.9	0	30	STANDBY UNIT
D.G.Set - 250 KVA - SPM - Kg/Day	0.279	12	0	50	STANDBY UNIT

### **Part-D**

#### **HAZARDOUS WASTES**

##### **1) From Process**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	00	3.37	MT/A
12.1 Acidic and alkaline residues	11105.5	10272.19	MT/A
5.2 Wastes or residues containing oil	332.3	259.24	MT/A
3.3 Sludge and filters contaminated with oil	00	00	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	00	00	MT/A
Other Hazardous Waste	00	00	MT/A

## 2) From Pollution Control Facilities

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
35.3 Chemical sludge from waste water treatment	321.41	335.35	MT/A

## Part-E

### SOLID WASTES

#### 1) From Process

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Metal Scrap	11431.48	12867.50	MT/A
Wood & Paper Scrap	52.03	50.95	MT/A
HDPE Plastic Packing Material	15.09	3.63	MT/A

#### 2) From Pollution Control Facilities

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
NA	0	0	MT/A

#### 3) Quantity Recycled or Re-utilized within the unit

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	0	0	MT/A

## Part-F

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

#### 1) Hazardous Waste

<b>Type of Hazardous Waste Generated</b>	<b>Qty of Hazardous Waste</b>	<b>UOM</b>	<b>Concentration of Hazardous Waste</b>
5.1 Used or spent oil	3.37	MT/A	Liquid, Non-corrosive, Authorized Re-cycler
12.1 Acidic and alkaline residues	10272.19	MT/A	Liquid, Corrosive, Authorized Processor
35.3 Chemical sludge from waste water treatment	335.35	MT/A	Solid, Iron content, MWML Taloja
5.2 Wastes or residues containing oil	259.24	MT/A	Solid, Non-corrosive, Authorized Processor
3.3 Sludge and filters contaminated with oil	0	MT/A	Liquid, Oily Sludge, MWML Taloja
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	0	MT/A	Barrels containing Oil
Other Hazardous Waste	0	MT/A	Any type

#### 2) Solid Waste

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
Metal Scrap	12867.5	MT/A	Trader , Re-cycler
Wood & Paper scrap	50.95	MT/A	Re-User
HDPE Plastic Packing Material	3.63	MT/A	Re-User

## Part-G

**Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.**

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
REVERSE OSMOSIS	80	0	0	0	0	0
REPLACEMENT LED LAMPS	0	0	0	4000	5	0
TREE PLANTATION	0	0	0	0	1	0
Rain Water Harvesting (Seasonal)	88	0	0	0	0	0

## Part-H

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

#### [A] Investment made during the period of Environmental Statement

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Continous usage of LED Lights	Reduction in Electricity consumption and equivalent carbon dioxide	5
Avenue Plantation	Sustainable development and reduction in Carbon dioxide	1
Energy Saving in Cooling Tower	Reduction in Electricity consumption	30
Continuous emission monitoring system for HCL Mist	On Line Monitoring	15

#### [B] Investment Proposed for next Year

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Avenue Plantation	Sustainable development and reduction in Carbon dioxide	1
Continous usage of LED Lights	Reduction in Electricity consumption and equivalent carbon dioxide	5
Energy Saving in Air Compressor	Reduction in Electricity consumption	30

## Part-I

### Any other particulars for improving the quality of the environment.

#### Particulars

With the cleaner fuel PNG Gas, emission is controlled. With RO System, treated effluent id recycled ad reused with ZLD. Environment cell is developed in factory. With LED lighting, electricity saved.

#### Name & Designation

Mr. U.R. Desai - Chief - CRC(W)

#### UAN No:

MPCB-ENVIRONMENT\_STATEMENT-0000062279

#### Submitted On:

30-09-2023