



Maharashtra Pollution Control Board

Annexure - XII<sup>th</sup>

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

Environment Audit Statement  
[FY 2023-2024]

**FORM V**

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2024

**Unique Application Number**

MPCB-ENVIRONMENT\_STATEMENT-0000072349

**Submitted Date**

26-09-2024

**PART A**

**Company Information**

**Company Name**

Posco Maharashtra Steel Pvt. Ltd.

**Application UAN number**

MPCB-CONSENT- 0000128520

**Address**

Plot No. C-1 & C-1 Part, Vile Bhagad  
MIDC, Tal-Mangaon, Dist-Raigad, 402308

**Plot no**

Plot No. C-1 & C-1 Part,

**Taluka**

Mangaon

**Village**

Vile Bhagad MIDC

**Capital Investment (In lakhs)**

123124.00

**Scale**

L.S.I.

**City**

Raigad

**Pincode**

402308

**Person Name**

In Kyo Bae

**Designation**

Dy. Managing Director

**Telephone Number**

8149700913

**Fax Number**

02140661198

**Email**

atinraut@posco.net

**Region**

SRO-Mahad

**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**

1.0/CAC/UAN No.0000128520/CR/2204000648  
Date of Issue: Date: 12/04/2022

**Consent Issue Date**

2022-04-12

**Consent Valid Upto**

2027-02-28

**Establishment Year**

2011

**Date of last environment statement submitted**

Sep 25 2023 12:00:00:000AM

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

**Product Information**

**Product Name**

Galvanized Coils

**Consent Quantity**

450000

**Actual Quantity**

487648

**UOM**

Ton/Y

H2 (Hydrogen Gas)

204

134.37

Ton/Y

N2 (Nitrogen Gas)

89280

39658

Ton/Y

**By-product Information****By Product Name**

Zinc Dross

**Consent Quantity**

2400

**Actual Quantity**

2197.972

**UOM**

Ton/Y

**Part-B (Water & Raw Material Consumption)****1) Water Consumption in m3/day****Water Consumption for Process****Consent Quantity in m3/day**

880.00

**Actual Quantity in m3/day**

876.00

**Cooling**

750.00

301.00

**Domestic**

253.00

231.00

**All others**

0.00

0.00

**Total**

1883.00

1408.00

**2) Effluent Generation in CMD / MLD****Particulars****Consent Quantity****Actual Quantity****UOM**

Trade Effluent

962.00

813.00

CMD

Domestic Effluent

160.00

120.00

CMD

**2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)****Name of Products (Production)****During the Previous financial Year****During the current Financial year****UOM**

Galvanizing Coils

1.20

1.05

Ton/Ton

H2 (Hydrogen Gas)

0.0130

0.0108

Ton/Ton

N2 (Nitrogen Gas)

0.012

0.7145

Ton/Ton

**3) Raw Material Consumption (Consumption of raw material per unit of product)****Name of Raw Materials****During the Previous financial Year****During the current Financial year****UOM**

Natural Gas

28.48

33.92

Ton/Ton

H2 (Hydrogen Gas)

2.70

2.73

Ton/Ton

N2 (Nitrogen Gas)

42.54

41.33

Ton/Ton

Full Hard Coil

1.00

1.00

Ton/Ton

NaOH Cleaner A

0.00079

0.00061

Ton/Ton

Phosphate Solution

0.00133

0.00135

Ton/Ton

Wet Oil

0.00106

0.0009

Ton/Ton

Chrome Free Solution

0.0012

0.00112

Ton/Ton

Chromate

0.00035

0.00034

Ton/Ton

Anti Rust Oil

0.0003

0.00034

Ton/Ton

Zinc

0.02439

0.02257

Ton/Ton

**4) Fuel Consumption****Fuel Name****Consent quantity****Actual Quantity****UOM**

Natural Gas

73102764

16539102

M3/Anum

HSD

2630

0.60

KL/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>		
pH	7.66	7.66	0.00	5.5 to 8.5	Within Norms
Suspended Solids	6.53	7.85	0.00	<100 mg/Lit	Within Norms
BOD 3 Days	8.81	10.60	0.00	<30 mg/Lit	Within Norms
COD	36.90	44.37	0.00	<250 mg/Lit	Within Norms
Oil & Grease	0.46	0.55	0.00	<10 mg/Lit	Within Norms
Total Dissolved Solids	653.22	785.54	0.00	<2100 mg/Lit	Within Norms
Chlorides	286.74	344.82	0.00	<600 mg/Lit	Within Norms
Sulphates	117.49	141.29	0.00	<1000 mg/Lit	Within Norms
Lead (Pb)	0.008	0.010	0.00	<0.1 mg/Lit	Within Norms
Cadmium (Cd)	0.002	0.003	0.00	<2 mg/Lit	Within Norms
Total Chromium (Cr)	0.009	0.011	0.00	<2 mg/Lit	Within Norms
Nickel (Ni)	0.006	0.007	0.00	<3 mg/Lit	Within Norms
Zinc (Zn)	0.383	0.461	0.00	<5 mg/Lit	Within Norms
Iron (Fe)	0.221	0.266	0.00	<3 mg/Lit	Within Norms
Cyanide (CN)	0.000	0.000	0.00	<0.2 mg/Lit	Within Norms
Hexavalent Chromium as Cr	0.000	0.000	0.00	<0.1 mg/Lit	Within Norms

**[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>		
Stack 1 Boiler Stack Particulate Matter	2.36	9.12	0.00	<150 mg/Nm3	Within Norms
SOX	0.00	0.00	0.00	<4.8Kg/Hr	Within Norms
NOX	0.97	2.00	0.00	<100 ppm	Within Norms
Stack 2 Furnace Stack Particulate Matter	4.87	9.46	0.00	<150 mg/Nm3	Within Norms
SOX	5.16	0.22	0.00	<4.8Kg/Hr	Within Norms
NOX	10.31	10.64	0.00	<100 ppm	Within Norms
Stack 3 No.1 Cleaning Section Alkali Mist	0.40	1.03	0.00	<35 mg/Nm3	Within Norms
Stack 4 Nano Coating Stack Acid Mist	0.00	0.00	0.00	<35 mg/Nm3	Within Norms
Stack 5 Post Treatment Stack Acid Mist	0.14	0.90	0.00	<35 mg/Nm3	Within Norms

Stack 6 Pot Roll Cleaning Room - Acid Mist	1.08	0.76	0.00	<35 mg/Nm3	Within Norms
Stack 7 DG Set 2000 KVA Particulate Matter	6.20	47.40	0.00	<150 mg/Nm3	Within Norms
SOX	0.046	0.35	0.00	<4.8Kg/Hr	Within Norms
NOX	7.72	31.50	0.00	<100 ppm	Within Norms
NMHC	3.06	23.50	0.00	<100 PPM	Within Norms
CO	4.99	34.50	0.00	<150 ppm	Within Norms

## 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	9.64	12.74	MT/A
6.3 Other residues from processing of zinc ash or skimmings	1943.754	2197.972	MT/A
Other Hazardous Waste	12.32	11.10	MT/A
12.2 Spent acid and alkali	40.63	18.63	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	2940	2791	Nos./Y
1.6 Spent catalyst and molecular sieves	0.00	0.00	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	525.09	529.59	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	15185.588	18346.919	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	0.00	0.00	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	0.00	0.00	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	12.74	MT/A	Oily, Organic Liquid Form
6.3 Other residues from processing of zinc ash or skimmings	2197.972	MT/A	Zinc Oxide, Solid Form
12.2 Spent acid and alkali	18.63	MT/A	NaOH ppt, Other Chemical ppt
Other Hazardous Waste	11.10	MT/A	CrO3
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	2791	Nos./Y	HDPE,MS Drum, Plastic Carboys etc.
35.3 Chemical sludge from waste water treatment	529.59	MT/A	Chemical ppt, Hydroxide, Sulphite, Phosphate etc.
1.6 Spent catalyst and molecular sieves	0.00	Kg/Annum	Molecular Sieves

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	18346.919	MT/A	Solid Metal Scrap

**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>
Hydrogen (H2) Consumption Reduction through Process Optimization	0.00	0.00	0.053	0.00	0.00	0.00
Water (H2O) Consumption Reduction	0.00	0.00	0.040	0.00	0.00	0.00
Wet Oil-Consumption Reduction	0.00	0.00	155000	0.00	0.00	0.00
Installed Rain water harvesting plant	30000	0.00	0.00	0.00	10	0.00

**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>
Development & Maintenance of Green Belt Area (Cost towards Manpower & Equipment Maintenance)	Increase in number of trees, Conservation of existing and new planted trees will improve biodiversity of plant area	55
CGL MBR Membrane plate replacement for better work performance	Maintaining ETP plant in well condition (Maintenance of pollution control equipment)	66

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

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
Separate Budget for Management of Environmental Functions.	For Environmental Protection Measures	500

## Part-I

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

**Particulars**

Tree Plantation Plan for this year 5000Nos. nearby 32 Villages & 450Nos within Plant premises with Horticulture contract & employed local manpower for Green Belt Development. Certification of EMS- ISO 14001:2015 Validity 23/02/2027

**Name & Designation**

In Kyo Bae (Dy. Managing Director)

**UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000072349

**Submitted On:**

26-09-2024