

## Maharashtra Pollution Control Board

# महाराष्ट्र प्रदूषण नियंत्रण मंडळ

**FORM V** 

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2022

**Unique Application Number** 

MPCB-ENVIRONMENT STATEMENT-0000049389

Submitted Date

29-09-2022

#### **PART A**

#### **Company Information**

Company Name

posco Maharashtra Steel Pvt. Ltd.

Application UAN number

MPCB-CONSENT-0000128520 Dated 28.12.2021

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,

Capital Investment (In lakhs)

123124.00

Pincode

402308

Telephone Number

8149700913

Region

Taluka

Red

Village

Mangaon Vile Bhagad MIDC

Scale City

L.S.I. Raigad

Person Name Designation Kwang Soo Kim Director

Fax Number **Email** 

02140661198 atinraut@posco.net

**Industry Category 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 **Consent Number Consent Issue Date** 

submitted online

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

**Consent Valid Upto** Establishment Year Date of last environment statement

submitted

2027-02-28 2011 Sep 29 2021 12:00:00:000AM

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

### **Product Information**

Product Name	Consent Quantity	Actual Quantity	UOM
Galvanized Coils	450000	386066	Ton/Y
H2 (Hydrogen Gas)	204	89.87	Ton/Y
N2 (Nitrogen Gas)	89280	20519	Ton/Y

	Consent Quantity	Actual Quantity	иом
Zinc Dross	2400	1555.43	Ton/Y
Part-B (Water & Raw Material C	Consumption)		
1) Water Consumption in m3/day Water Consumption for Process	Consent Quantity in m3/da 880.00	y Actual Quantity in 1 609.00	m3/day
Cooling	750.00	592.00	
Domestic	253.00	194.00	
All others	0.00	0.00	
Total	1883.00	1395.00	
2) Effluent Generation in CMD / MLD Particulars	Consent Quanti	ity Actual Quantity	UOM
Trade Effluent	962	700	CMD
Domestic Effluent	160	120	CMD
Galvanizing Coils H2 (Hydrogen Gas) N2 (Nitrogen Gas)	financial Yea 1.36 0.0166 0.576	1.32 0.0144 0.00110	Ton/To Ton/To Ton/To
3) Raw Material Consumption (Consummaterial per unit of product) Name of Raw Materials	nption of raw  During the Previous financial Year	During the current Fin	nancial UOM
Natural Gas	28.97	34.82	
H2 (Hydrogen Gas)	2.95	2.59	
N2 (Nitrogen Gas)	70.65	42.52	
Full Hard Coil	0.834	1.00	Ton/To
NaOH	0.00067	0.00071	Ton/To
Phosphate Solution	0.00118	0.00145	Ton/To
	0.00077	0.00108	Ton/To
Wet Oil	0.00098	0.00114	Ton/To
Wet Oil Chrome Free Solution Chromate	0.00022	0.00033	Ton/To
Chrome Free Solution Chromate		0.00033 0.000327	Ton/To Ton/To
Chrome Free Solution	0.00022		

2630

550

KL/A

HSD

Stack 4 Nano Coating Stack

Stack 5 Post Treatment

Acid Mist

Stack Acid Mist

0.92

1.58

3.4

5.81

0

0

<35 mg/Nm3

<35 mg/Nm3

With in Norms

With in Norms

# Pollution discharged to environment/unit of output (Parameter as specified in the consent issued) [A1 Water]

[A] Water Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons		
-11	Quantity	Concentration	%variation	Standard	Reason
pH	7.78	7.78	0	5.5 to 9.0	With in Norms
Suspended Solids	4.89	6.69	0	<100 mg/Lit	With in Norms
BOD 3 Days	8.51	11.64	0	<30 mg/Lit	With in Norms
COD	36.74	50.27	0	<250 mg/Lit	With in Norms
Oil & Grease	0.21	0.30	0	<10 mg/Lit	With in Norms
Total Dissolved Solids	556.10	760.90	0	-	With in Norms
Chlorides	262.81	359.60	0	<600 mg/Lit	With in Norms
Sulphates	28.58	39.119	0	-	With in Norms
Lead (Pb)	0.002	0.0021	0	<0.1 mg/Lit	With in Norms
Cadmium (Cd)	0.007	0.0102	0	<2 mg/Lit	With in Norms
Total Chromium (Cr)	0.002	0.0024	0	<2 mg/Lit	With in Norms
Nickel (Ni)	0.001	0.0018	0	<3 mg/Lit	With in Norms
Zinc (Zn) 0.086		0.1183	0	<5 mg/Lit	With in Norms
Iron (Fe)	0.025	0.0341	0	<3 mg/Lit	With in Norms
Cyanide (CN)	0.000	0.000	0	<0.2 mg/Lit	With in Norms
Hexavalent Chromium as Cr	0.000	0.000	0	<0.1 mg/Lit	With in Norms
[B] Air (Stack) Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons		
	Quantity	Concentration	%variation	Standard	Reason
Stack 1 Boiler Stack Particulate Matter	1.42	9.00	0	<150 mg/Nm3	With in Norms
SOX	0.00	0.00	0	<4.8Kg/Hr	With in Norms
NOX	1.98	6.66	0	<100 ppm	With in Norms
Stack 2 Furnace Stack Particulate Matter	5.39	10.80	0	<150 mg/Nm3	With in Norms
SOX	1.95	0.10	0	<4.8Kg/Hr	With in Norms
NOX	8.16	8.70	0	<100 ppm	With in Norms
Stack 3 No.1 Cleaning Section Alkali Mist	0.24	0.88	0	<35 mg/Nm3	With in Norms

Stack 6 Pot Roll Cleaning Room - Acid Mist	1.08	3.99	0	<35 mg/Nm3	With in Norms
Stack 7 DG Set 2000 KVA Particulate Matter	0.5	5.50	0	<150 mg/Nm3	With in Norms
SOX	0.00	0.00	0	<4.8Kg/Hr	With in Norms
NOX	0.68	4.00	0	<100 ppm	With in Norms
NMHC	4.16	45.70	0	<100 mg/Nm3	With in Norms
СО	3.48	37.75	0	<150 ppm	With in Norms

#### **Part-D**

**HAZARDOUS WASTES** 

1) From Process			
Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	9.12	18.63	MT/A
6.3 Other residues from processing of zinc ash or skimmings	744.28	1555.43	MT/A
Other Hazardous Waste	5.59	9.37	MT/A
12.2 Spent acid and alkali	29.99	19.96	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	1771	3009	Nos./Y
1.6 Spent catalyst and molecular sieves	0.00	0.00	MT/A

2) From Pollution Control Facilities			
Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.3 Chemical sludge from waste water treatment	358.46	450.32	MT/A

#### Part-E

SOLID WASTES  1) From Process			
•	Total During Previous Financial year	Total During Current Financial year	иом
Metal Scrap	7700	11538.47	MT/A
2) From Pollution Control Fa	attista a		

Non nazardous waste Type	rotal During Previous Financial year	rotal During Current Financial year	ООМ
NA	0	0	MT/A

# 3) Quantity Recycled or Re-utilized within the unit Waste Type Total During Previous Financial year Total During Current Financial UOM year 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

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	18.63	MT/A	Oily, Organic Liquid Form
6.3 Other residues from processing of zinc ash or skimmings	1555.53	MT/A	Zinc Oxide, Solid Form
12.2 Spent acid and alkali	19.96	MT/A	NaOH ppt, Other Chemical ppt
5.1 Used or spent oil	18.63	MT/A	Oily, Organic Liquid Form
Other Hazardous Waste	9.37	MT/A	CrO3
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	d 3009	Nos./Y	HDPE,MS Drum, Plastic Carboys etc.
35.3 Chemical sludge from waste water treatment	450.32	MT/A	Chemical ppt, Hydroxide, Sulphite, Phosphate etc.
1.6 Spent catalyst and molecular sieves	0.00	Kg/Annum	Oily, Organic Liquid Form
2) Solid Waste			
Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Metal Scrap	11538.47	MT/A	Solid Metal Scrap

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Metal Scrap	11538.47	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.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
New Tree Plantations Outside Plant (Nearby Villages) Plantations: 520 Nos. & Within Plant Premises: 824Nos. Total Tree Plantations:1344	0.00	0.00	0.00	0.00	7.7	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

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
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	45

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment
		(Lacks)
Landscape & Green Belt Area Maintenance including New Tree	Soil Conservation and water reuse for	45

Soil Conservation and water reuse for 45 garden (Reduction of Natural Resources)

#### Part-I

Plantation (Cost towards Manpower & Equipment Maintenance)

#### **Particulars**

Green Belt Development & Maintenance. Tree Plantation activity done (Inside green area-2400 Nos.), Provided sprinkler & drip irrigation system to green coverage area, Certification of EMS- ISO 14001:2015 with Validity 23rd Feb, 2024 & OHSAS - ISO 45001:2018 with Validity 23rd Feb, 2024, Celebrated WED on 5th Jun.

#### Name & Designation

Kwang Soo Kim (Director)

#### **UAN No:**

MPCB-ENVIRONMENT\_STATEMENT-0000049389

#### **Submitted On:**

29-09-2022