



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-0000059526

Submitted Date

25-09-2023

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 22 2022 12:00:00:000AM

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

Product Information

Product Name

Galvanized Coils

Consent Quantity

450000

Actual Quantity

447876

UOM

Ton/Y

H2 (Hydrogen Gas)

204

109.00

Ton/Y

N2 (Nitrogen Gas)

89280

23817

Ton/Y

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
Zinc Dross	2400	1943.75	Ton/Y

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day	
Cooling	880.00	876.00	
Domestic	750.00	367.00	
All others	253.00	231.00	
Total	0.00	0.00	
	1883.00	1474.00	

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	962.00	815.00	CMD
Domestic Effluent	160.00	135.00	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	1.32	1.20	Ton/Ton
H2 (Hydrogen Gas)	0.0144	0.0002	Ton/Ton
N2 (Nitrogen Gas)	0.00110	0.0532	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	34.82	28.48	Ton/Ton
H2 (Hydrogen Gas)	2.59	2.70	Ton/Ton
N2 (Nitrogen Gas)	42.52	42.54	Ton/Ton
Full Hard Coil	1.00	1.00	Ton/Ton
NaOH	0.00071	0.00079	Ton/Ton
Phosphate Solution	0.00145	0.00133	Ton/Ton
Wet Oil	0.00108	0.00106	Ton/Ton
Chrome Free Solution	0.00114	0.0012	Ton/Ton
Chromate	0.00033	0.00035	Ton/Ton
Anti Rust Oil	0.000327	0.0003	Ton/Ton
Zinc	0.02406	0.02439	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Natural Gas	73102764	12753440	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

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		
	Quantity	Concentration	%variation	Standard	Reason
pH	7.83	7.83	0	5.5 to 9.0	With in Norms
Suspended Solids	6.01	8.22	0	<100 mg/Lit	With in Norms
BOD 3 Days	9.33	12.77	0	<30 mg/Lit	With in Norms
COD	45.45	62.19	0	<250 mg/Lit	With in Norms
Oil & Grease	0.21	0.292	0	<10 mg/Lit	With in Norms
Total Dissolved Solids	669.72	916.40	0	<2100 mg/Lit	With in Norms
Chlorides	295.99	405.00	0	<600 mg/Lit	With in Norms
Sulphates	120.68	165.12	0	<1000 mg/Lit	With in Norms
Lead (Pb)	0.003	0.004	0	<0.1 mg/Lit	With in Norms
Cadmium (Cd)	0.007	0.010	0	<2 mg/Lit	With in Norms
Total Chromium (Cr)	0.058	0.080	0	<2 mg/Lit	With in Norms
Nickel (Ni)	0.040	0.055	0	<3 mg/Lit	With in Norms
Zinc (Zn)	0.122	0.167	0	<5 mg/Lit	With in Norms
Iron (Fe)	0.174	0.238	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	1.93	9.00	0	<150 mg/Nm3	With in Norms
SOX	0.00	0.00	0	<4.8Kg/ Hr	With in Norms
NOX	1.61	4.00	0	<100 ppm	With in Norms
Stack 2 Furnace Stack Particulate Matter	6.62	12.30	0	<150 mg/Nm3	With in Norms
SOX	0.00	0.00	0	<4.8Kg/ Hr	With in Norms
NOX	1.68	1.70	0	<100 ppm	With in Norms
Stack 3 No.1 Cleaning Section Alkali Mist	0.40	1.47	0	< 35 mg/Nm3	With in Norms
Stack 4 Nano Coating Stack Acid Mist	0.00	0.00	0	< 35 mg/Nm3	With in Norms
Stack 5 Post Treatment Stack Acid Mist	0.14	0.5333	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	5.50	44.05	0	<150 mg/Nm3	With in Norms
SOX	0.041	0.33	0	<4.8Kg/Hr	With in Norms
NOX	5.40	23.00	0	<100 ppm	With in Norms
NMHC	3.50	28.00	0	<100 ppm	With in Norms
CO	4.78	34.00	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	18.63	9.64	MT/A
6.3 Other residues from processing of zinc ash or skimmings	1555.43	1943.754	MT/A
Other Hazardous Waste	9.37	12.32	MT/A
12.2 Spent acid and alkali	19.96	40.63	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	3009	2940	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	450.32	525.09	MT/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Metal Scrap	11538.47	15185.588	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0.00	0.00	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
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

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	9.64	MT/A	Oily, Organic Liquid Form
6.3 Other residues from processing of zinc ash or skimmings	1943.754	MT/A	Zinc Oxide, Solid Form
12.2 Spent acid and alkali	40.63	MT/A	NaOH ppt, Other Chemical ppt
Other Hazardous Waste	12.328	MT/A	CrO3
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	2940	Nos./Y	HDPE,MS Drum, Plastic Carboys etc.
35.3 Chemical sludge from waste water treatment	525.09	MT/A	Chemical ppt, Hydroxide, Sulphite, Phosphate etc.
1.6 Spent catalyst and molecular sieves	0.00	Kg/Annum	Molecular Sieves

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Metal Scrap	15185.588	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)
Solar lights installed on street & pedestrian path.	0.00	0.00	0	293.00	0.00	0.00
Installed Rain Water Harvesting Plant	30000	0.00	0	0.00	0.00	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	144
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

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Separate Budget for Management of Environmental Functions	For Environmental Protection Measures	500

Part-I

Any other particulars for improving the quality of the environment.

Particulars

Tree Plantation Plan for this year 4000Nos. nearby 32 Villages & 2000Nos within Plant premises with Horticulture contract & employed local manpower for Green Belt Development. Certification of EMS- ISO 14001:2015 Validity 23/02/2024

Name & Designation

In Kyo Bae -Dy. Managing Director

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000059526

Submitted On:

25-09-2023