ENVIRONMENT STATEMENT REPORT

2023-24

JSW STEEL LTD, DOLVI WORKS

Plant wise Environment Statement report for plants under

JSW Steel ltd, Dolvi Works

ENVIRONMENTAL MANAGEMENT DEPARTMENT

JSW STEEL LTD, DOLVI WORKS, TALUKA PEN, RAIGAD-DISTRICT, MAHARASHTRA 402107

Environment Statement for plants under Phase 1

(Sponge Iron Plant, Hot Strip Mill 1, Blast Furnace 1, Sinter Plant 1 & 2, Lime Calcination Plant 1, 2 and 4

Maharashtra Pollution Control Board
महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V
(See Rule 14)
Environmental Audit Report for the financial Year ending the 31st March 2024

Unique Application Number	***Submitted Date***
MPCB-ENVIRONMENT_STATEMENT-0000072775	27-09-2024

PART A

Company Information

Company Name	***Application UAN number***
JSW STEEL LIMITED PHASE I (SIP,BF-1,HSM-1 ,Sinter1& 2,LCP1,2,4)	MPCB-CONSENT-0000165700

Address
GEETAPURM dOLVI

Plot no	***Taluka***	***Village***
78,79,80,81,82,83,84,85,86,87,88,89,90,94,95,101,104,106,107,10 8,109	PEN	DOLVI VILLAGE VILLAGE
Capital Investment (In lakhs)	***Scale***	***City***
1442700	LARGE	PEN
Pincode	***Person Name***	***Designation***
402107	DR.ANAND RAI	VICE PRESIDENT(HOD ENVIRONMENT)
Telephone Number	***Fax Number***	***Email***
02143663000	000	anand.rai@jsw.in
Region	***Industry Category***	***Industry Type***
SRO-Raigad II	Red	R53 Iron & Steel (involving processing from ore/ integrated steel plants) and or Sponge Iron units
Last Environmental statement submitted online	***Consent Number***	***Consent Issue Date***
yes	Format1.0/CAC/UAN No.0000165700/CR/2402000210	2024-02-02
Consent Valid Upto	***Establishment Year***	***Date of last environment statement submitted***
2028-12-31	1994	Sep 18 2023 12:00:00:000AM

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

Product Information

Product Name	***Consent Quantity***	***Actual Quantity***	***UOM***
Calcinated Lime/ Calcinated Dolomite(LCP-1,2,4)	1200	866	Ton/Ton
Liquid Metal/Pig Iron (Blast Furnace-I1)	3.5	2.85	MT/A
Hot Rolled Coil (Hot Strip Mill-I)	3.5	3.44	MT/A

Pulverized Dry Coal	0.9	0.44	MT/A
Direct Reduced Iron	2	1.35	MT/A
Sinter I	2.8	2.45	MT/A
Sinter I I	2.5	2.84	MT/A
Electric Power from Top gas recovery Turbine	12	5.18	Mwh
Granulated Slag	1.28	1.03	MT/A

By-product Information

By Product Name	***Consent Quantity***	***Actual Quantity***	***UOM***
NA	0	0	Ton/Y

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for	***Consent Quantity in m3/day***	***Actual Quantity in m3/day***
Process	53288.00	23688.00
Cooling	0.00	0.00
Domestic	87.00	72.00
All others	0.00	0.00
Total	53375.00	23760.00

2) Effluent Generation in CMD / MLD

Particulars	***Consent Quantity***	***Actual Quantity***	***UOM***
TRADE EFFLUENT	9592	4264	CMD
DOMASTIC EFFLUENT	70	57.6	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***
Calcinated Lime/ Calcinated Dolomite (M3/UNIT OF PRODUCT)	0.23	0.20	Ton/Ton
Direct Reduced Iron(M3/UNIT OF PRODUCT)	0.78	0.75	Ton/Ton
Hot Rolled Coil (Hot Strip Mill-I)(M3/UNIT OF PRODUCT)	0.85	1.03	Ton/Ton
Liquid Metal/Pig Iron (Blast Furnace-I) (M3/UNIT OF PRODUCT)	0.97	1.17	Ton/Ton
SINTER I & II (M3/UNIT OF PRODUCT)	0.11	0.076	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***
COKE	0.384	0.418	Ton/Ton
IRON ORE	0.090	0.039	Ton/Ton
PELLETS	1.012	0.985	Ton/Ton
SINTER	0.728	0.775	Ton/Ton
QUARTZ	0.0023	0.002	Ton/Ton
DOLOMITE	0.030	0.004	Ton/Ton

LIMESTONE	0.028	0.014	Ton/Ton
ARCL Pellets (Gross)	1.268	1.266	Ton/Ton
NMDC - Bacheli Lump (Gross)	0.0044	0.0017	Ton/Ton
Kirandul Lump (Gross)	0.379	0.326	Ton/Ton
LIMESTONE	2.15	1.63	Ton/Ton
Dolomite	1.99	2.92	Ton/Ton
NMDC BACHELI	0.004	0.017	Ton/Ton
Ore Fines - Odisha (Medium Grade)	0.126	0.019	Ton/Ton
Ore Fines - Odisha (Low Grade)	0.190	0.078	Ton/Ton
Ore Fines - Odisha (High Grade)	0.054	0.077	Ton/Ton
Ore Fines - FMG	0.016	0.157	Ton/Ton
Karnataka/MEL Fines	0.131	0.022	Ton/Ton
METALLIC (DRI/HBI, HOTMETAL, SCRAPE)	1.700	1.475	Ton/Ton
FLUXES LIKE LIME, FLUX DOLO, RAW DOLOMITE CALCINATED BAUXITE, FLOURSPAR 1	0.134	0.1007	Ton/Ton
ELECTRODES - 450,610	0.0013	0.001	Ton/Ton
CARBURIZERS LIKE COKE BREEZE, NUT COKE, CPC	0.0069	0.008	Ton/Ton

4) Fuel Consumption

Fuel Name	*Consent quantity*	*Actual Quantity*	*UOM*
COKE	0	970428	Ton/Y
NUT COKE	0	122777	Ton/Y
PCI	0	487435	Ton/Y
BF GAS	0	2306864047	NM3/Annum
COKE OVEN GAS	0	63852840	NM3/Annum
NATURAL GAS	0	345620687	NM3/Annum
OXYGEN	0	534183231	NM3/Annum
NITROGEN	0	295916321	NM3/Annum
POWER	0	403253138	Mwh
RLNG	0	22802	NM3/Annum

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*
NA	0	0	0	NA	NA

[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*

Cast House Dedusting system	347.1	19.6	No Variatio	NA	NA
Stock House- 1	156	27.9	No Variatio	NA	NA
Stock House- 2	83.3	18.1	No Variatio	NA	NA
Stock House- 3	7.1	26	No Variatio	NA	NA
Stove stack	70.0	5.9	No Variatio	NA	NA
16 TPH Boiler Stack	16.0	17.5	No Variatio	NA	NA
Coal Injection Plant STACK	45.6	28.9	No Variatio	NA	NA
GCP - I Stack	486.8	10.3	No Variatio	NA	NA
GCP - II Stack	305.6	8.8	No Variatio	NA	NA
GCP - III Stack	52.7	6.8	No Variatio	NA	NA
GCP - IV Stack	7.8	10.2	No Variatio	NA	NA
Tunnel Furnace - I - A Stack	1.8	9.9	No Variatio	NA	NA
Tunnel Furnace - I - B Stack	1.5	8.7	No Variatio	NA	NA
Tunnel Furnace - II - A Stack	1.9	9.2	No Variatio	NA	NA
Tunnel Furnace - II - B Stack	1.1	6.2	No Variatio	NA	NA
DRI De-Dusting System Stack	2.7	26.5	No Variatio	NA	NA
Flue Gas Ejector Stack	98.3	10.2	No Variatio	NA	NA
Furnace Dust Collector Stack	8.4	17.4	No Variatio	NA	NA
Screen Dust Collector Stack C304	10.1	20.7	No Variatio	NA	NA
Screen Dust Collector Stack I	13.5	20.7	No Variatio	NA	NA
Screen Dust Collector Stack II	7.3	18.5	No Variatio	NA	NA
Product Silo Dust Collector Stack	5.6	13.0	No Variatio	NA	NA
Fuel Bag Filter Stack	23.6	21.1	No Variatio	NA	NA
Flux ESP Stack	39.2	21.9	No Variatio	NA	NA
Propotioning ESP Stack	49.3	26.7	No Variatio	NA	NA
Main Stack	755.0	38.6	No Variatio	NA	NA
Product Sinter Sizing & Discharge End ESP Stack	428.3	32.1	No Variatio	NA	NA
Main ESP	954.6	28.2	No Variatio	NA	NA
Bag Filter- 1 (Flux/Fuel Crush or Building	16.3	13.6	No Variatio	NA	NA
Bag Filter- 2 (Flux/Fuel Screen Building)	12.6	18	No Variatio	NA	NA
Bag Filter- 3(Near Sinter Product Screen Building)	8.7	17.2	No Variatio	NA	NA
Bag Filter- 4 (Near Sinter Product Crusher & HLQRF)	10.8	21.3	No Variatio	NA	NA
Bag Filter- 5 (Near Banker House & JHO8)	9.2	22.1	No Variatio	NA	NA
Bag Filter- 6(Banker House)	4.5	13.1	No Variatio	NA	NA
Bag Filter- 7 (Fuel Storage Crusher Building)	7.1	14.7	No Variatio	NA	NA
Limestone De-dusting system stack for Kiln I & II	5.7	14.6	No Variatio	NA	NA

Kiln - I Stack	15.8	18.6	No Variatio	NA	NA
Kiln - II Stack	19.2	19.7	No Variatio	NA	NA
Lime De-dusting system Stack for Kiln I & II	5.5	12.2	No Variatio	NA	NA
Kiln - IV Stack	21.2	17.7	No Variatio	NA	NA
Limestone De-dusting system stack for Kiln IV	6.0	13.6	No Variatio	NA	NA
Lime De-dusting system Stack for Kiln IV	7.2	17.2	No Variatio	NA	NA

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	258	770	KL/A
5.2 Wastes or residues containing oil	922	809	Kg/Annum
3.3 Sludge and filters contaminated with oil	0.53	0.11	Kg/Annum
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	5787	4477	Nos./Y

2) From Pollution Control Facilities

Hazardous Waste Type	***Total During Previous Financial year***	***Total During Current Financial year***	***UOM***
0	0	0	Ltr/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	***Total During Previous Financial year***	***Total During Current Financial year***	***UOM***
BLAST FURNACE SLAG	83539	1031443	Ton/Y
COKE FINES	270100	222731	Ton/Y
OXIDE FINES	282851	209526	Ton/Y
SINTER FINES	376485	320741	Ton/Y
Iron Ore Oxide Fines	267841	246224	Ton/Y
CALCINATED LIME FINES	183261	29175	Ton/Y
LIME WASTE GAS POWDER	2702	6475.7	Ton/Y
LIME STONE DUST QUICK LIME	59370	94825	Ton/Y
SINTER FINES	771817.5	667941.5	Ton/Y
OXIDE FINES	608021.7	622140.8	Ton/Y
TUNDESH SKULL	6453	3951	Ton/Y
EAF SLAG	900042	860280	Ton/Y
LF SLAG	154627	165421	Ton/Y
MILL SCALE	35546	29465	Ton/Y

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
DUST FROM APC SYSTEM	13880	75767	Ton/Y
WWTP SLUDGE	95705	23075	Ton/Y
FINES GENERATION FROM RAW MATERIAL	8322.24	530267	Ton/Y
Sludge Generation	109823	123195	Ton/Y
ESP FINES	4172	4130	Ton/Y
GCP DUST	118628	128695	Ton/Y
Chamber Dust + HTQ Dust	19763	21737	Ton/Y
DRI DUST FROM DE-DUSTING SYSTEM OF SMS	2160	2208	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Other Hazardous Waste	0	0	Ton/Y

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	770	KL/A	sale to authorized recycler
5.2 Wastes or residues containing oil	809	Kg/Annum	used in furnace
3.3 Sludge and filters contaminated with oil	0.11	Ton/Y	sale to authorized recycler
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	4477	Nos./Y	sale to authorized recycler

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
BLAST FURNACE SLAG	1031443	Ton/Y	Sale to cement plant
COKE FINES	222731	Ton/Y	Used in sinter plant
OXIDE FINES	209526	Ton/Y	Used in sinter plant
SINTER FINES	320741	Ton/Y	Used in sinter plant
Iron Ore Oxide Fines	123195	Ton/Y	Used in sinter plant
LIME WASTE GAS POWDER dust	6475.7	Ton/Y	Used in sinter plant
lime stone fines QUICK LIME	94825	Ton/Y	Used in sinter plant
SINTER FINES	667941.5	Ton/Y	Used in sinter plant
OXIDE FINES	622140.8	Ton/Y	Used in sinter plant
Tundesh SKULL	3951	Ton/Y	Used in sinter plant
EAF SLAG	860280	Ton/Y	Non-metallic slag is used for internal road making, construction purpose & land levelling.
LF Slag	165421	Ton/Y	used for land levelling.
MILL SCALE	29465	Ton/Y	Used in sinter plant
DUST FROM APC SYSTEM GCP, DUST CATCHER	75767	Ton/Y	Used in sinter plant

WWTP SLUDGE	23075	Ton/Y	Used in sinter plant
FINES GENERATION FROM RAW MATERIAL	530267	Ton/Y	Used in sinter plant
Sludge Generation	123195	Ton/Y	Used in sinter plant
GCP DUST	128695	Ton/Y	Used in sinter plant
Chamber Dust + HTQ Dust	21732	Ton/Y	Used in sinter plant
DRI DUST FROM DE-DUSTING SYSTEM OF SMS	2208	Ton/Y	Used in sinter plant

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)*
0	0	0	0	0	1442700	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

Detail of measures for Environmental Protection	*Environmental Protection Measures*	*Capital Investment (Lacks)*
NA	NA	0

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	*Environmental Protection Measures*	*Capital Investment (Lacks)*
NA	NA	0

Part-I

Any other particulars for improving the quality of the environment.

Particulars

The company is aware of surrounding Environment. JSW Steel Limited has planted a large number of trees on the plant premises as per the guidelines given by MPCB. We are maintaining the full-fledged Nursery managed by a qualified Horticulture Officers to develop plants for our in-house requirement. Till date about 215925 Nos. big trees and 8565972 Nos. small trees including innumerable flower bushes, ornamental trees etc. have been planted.

Name & Designation

DR.ANAND RAI VICE PRESIDENT (HOD-ENVIRONMENT)

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000072775

Submitted On:

27-09-2024

Environment Statement for plants under Phase 2

Steel Melting Shop 2, Hot Strip Mill 2, Blast Furnace 2, Lime Calcination Plant 5, 6 & 7, 240 MW Captive Power Plant, Billet Caster & bar Mill

Maharashtra Pollution Control Board
महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

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

Unique Application Number	***Submitted Date***
MPCB-ENVIRONMENT_STATEMENT-0000070367	19-09-2024

PART A

Company Information

Company Name	***Application UAN number***	
JSW STEEL LIMITED (LIME CALCINATION PLANT-3))	MPCB-CONSENT-0000148643	
Address		
GEETAPURM dOLVI		
Plot no	***Taluka***	***Village***
107,108	PEN	DOLVI VILLAGE VILLAGE
Capital Investment (In lakhs)	***Scale***	***City***
7843	LARGE	PEN
Pincode	***Person Name***	***Designation***
402107	DR.ANAND RAI	VICE PRESIDENT(HOD ENVIRONMENT)
Telephone Number	***Fax Number***	***Email***
02143663000	000	anand.rai@jsw.in
Region	***Industry Category***	***Industry Type***
SRO-Raigad II	Orange	O43 Lime manufacturing (using lime kiln)
Last Environmental statement submitted online	***Consent Number***	***Consent Issue Date***
yes	Format 1.0/CAC/UAN NO.0000148643/CR-2301001897	2023-01-23
Consent Valid Upto	***Establishment Year***	***Date of last environment statement submitted***
2027-09-30	2013	Sep 13 2023 12:00:00:000AM
Industry Category Primary (STC Code) & Secondary (STC Code)		

Product Information

Product Name	***Consent Quantity***	***Actual Quantity***	***UOM***
Calcinated Lime	219154	185026.3	Ton/Y

By-product Information

By Product Name	***Consent Quantity***	***Actual Quantity***	***UOM***
NA	0	0	Ton/Y

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for	Consent Quantity in m3/day	Actual Quantity in m3/day
Process	0.00	0.00
Cooling	14.00	12.00
Domestic	4.00	2.00
All others	0.00	0.00
Total	18.00	14.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
TRADE EFFLUENT	0	0	CMD
DOMASTIC EFFLUENT	3	1.60	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
CALCINATED LIME (M3/UNIT OF PRODUCT)	0.023	0.032	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
LIME STONE	2.23	2.28	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Coke Oven Gas	0	24064482	NM3/Annum
BF Gas	0	32459279	NM3/Annum
POWER	0	10695.899	Mwh
RE LIQUIFIED NATURAL GAS	0	19110	NM3/Annum

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
NA	0	0	0	NA	NA

[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
Limestone De-dusting system stack for Kiln III	6.5	13.6	No Variatio	50	NA
Kiln - III Stack	25.2	18.4	No Variatio	50	NA

Quick Lime & Lime De-dusting system Stack for Kiln III	7.3	14.2	No Variatio	50	NA

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	2000	2000	Ltr/A

2) From Pollution Control Facilities

Hazardous Waste Type	*Total During Previous Financial year*	*Total During Current Financial year*	*UOM*
0	0	0	Ltr/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	*Total During Previous Financial year*	*Total During Current Financial year*	*UOM*
CALCINATED LIME FINES	8378	0	Ton/Y
WASTE GAS POWDER	2962.13	3330.488	Ton/Y
QUICK LIME	120028	112561	Ton/Y

2) From Pollution Control Facilities

Non Hazardous Waste Type	*Total During Previous Financial year*	*Total During Current Financial year*	*UOM*
NA	0	0	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	*Total During Previous Financial year*	*Total During Current Financial year*	*UOM*
Other Hazardous Waste	131368.13	115891.488	Ton/Y

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	2000	Ltr/A	Sale to MPCB Authorized Recycler

2) Solid Waste

Type of Solid Waste Generated	*Qty of Solid Waste*	*UOM*	*Concentration of Solid Waste*
NA	0	Ton/Y	NA

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)
0	0	0	0	0	784300	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

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NA	NA	0

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NA	NA	0

Part-I

Any other particulars for improving the quality of the environment.

Particulars

The company is aware of surrounding Environment. JSW Steel Limited has planted a large number of trees on the plant premises as per the guidelines given by MPCB. We are maintaining the full-fledged Nursery managed by a qualified Horticulture Officers to develop plants for our in-house requirement. Till date about 215925 Nos. big trees and 8565972 Nos. small trees including innumerable flower bushes, ornamental trees etc. have been planted.

Name & Designation

DR.ANAND RAI VICE PRESIDENT (HOD-ENVIRONMENT)

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000070367

Submitted On:

19-09-2024

Environment Statement for plants under Phase 1

55 MW Captive Power Plant

Maharashtra Pollution Control Board
महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

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

Unique Application Number	***Submitted Date***
MPCB-ENVIRONMENT_STATEMENT-0000070394	19-09-2024

PART A

Company Information

Company Name	***Application UAN number***	
JSW STEEL LIMITED (55 MW CAPTIVE POWER PLANT)	MPCB-CONSENT-0000144072	
Address		
GEETAPURM dOLVI		
Plot no	***Taluka***	***Village***
129,130 A,130B,131,132 KHAR KARAV VILLAGE	PEN	DOLVI VILLAGE VILLAGE
Capital Investment (In lakhs)	***Scale***	***City***
18003.00	LARGE	PEN
Pincode	***Person Name***	***Designation***
402107	DR.ANAND RAI	VICE PRESIDENT(HOD ENVIRONMENT)
Telephone Number	***Fax Number***	***Email***
02143663000	000	anand.rai@jsw.in
Region	***Industry Category***	***Industry Type***
SRO-Raigad II	Red	R9 Power generation plant [except Wind and Solar renewable power plants of all capacities and Mini Hydel power plant of capacity <25MW]
Last Environmental statement submitted online	***Consent Number***	***Consent Issue Date***
yes	Format1.0/CAC/UAN No.0000144072/CR/2303001159	2023-03-16
Consent Valid Upto	***Establishment Year***	***Date of last environment statement submitted***
2027-08-31	2013	Sep 14 2023 12:00:00:000AM
Industry Category Primary (STC Code) & Secondary (STC Code)		

Product Information

Product Name	***Consent Quantity***	***Actual Quantity***	***UOM***
Electricity Generation (Gas based Captive Power Plant)	55	44.21	Mwh

By-product Information

By Product Name	***Consent Quantity***	***Actual Quantity***	***UOM***
NA	0	0	Ton/Y

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for	Consent Quantity in m3/day	Actual Quantity in m3/day
Process	0.00	0.00
Cooling	4746.00	2660.00
Domestic	5.00	4.00
All others	10.00	8.00
Total	4761.00	2672.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
TRADE EFFLUENT	991	559	CMD
DOMASTIC EFFLUENT	3	3	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
Power Generation (M3/UNIT OF PRODUCT)	0.250	0.200	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
Raw water	0.250	0.200	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Coke Oven Gas	0	2031	NM3/Annum
BF Gas	0	123924	NM3/Annum
Natural gas	0	54	NM3/Annum

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
NA	0	0	0	NA	NA

[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
Boiler Stack	30.1	3.9	No Variatio	50	NA

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	1400	6400	Ltr/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ltr/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	Ton/Y

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Other Hazardous Waste	0	0	Ton/Y

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	6400	Ltr/A	Sale to MPCB Authorized Recycler

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	0	Ton/Y	NA

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)
0	0	0	0	0	18003	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

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NA	NA	0

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NA	NA	0

Part-I

Any other particulars for improving the quality of the environment.

Particulars

The company is aware of surrounding Environment. JSW Steel Limited has planted a large number of trees on the plant premises as per the guidelines given by MPCB. We are maintaining the full-fledged Nursery managed by a qualified Horticulture Officers to develop plants for our in-house requirement. Till date about 215925 Nos. big trees and 8565972 Nos. small trees including innumerable flower bushes, ornamental trees etc. have been planted.

Name & Designation

DR.ANAND RAI VICE PRESIDENT (HOD-ENVIRONMENT)

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000070394

Submitted On:

19-09-2024

Environment Statement for plants under Phase 2

Steel Melting Shop 2, Hot Strip Mill 2, Blast Furnace 2, Lime Calcination Plant 5, 6 & 7, 240 MW Captive Power Plant, Billet Caster & bar Mill

Maharashtra Pollution Control Board
महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V
(See Rule 14)
Environmental Audit Report for the financial Year ending the 31st March 2024

Unique Application Number
MPCB-ENVIRONMENT_STATEMENT-0000070718

Submitted Date
21-09-2024

PART A

Company Information

Company Name
JSW STEEL LIMITED (INTEGREATED STEEL PLANT 5-10 MTPA)

Application UAN number
MPCB-CONSENT-0000136178

Address
GEETAPURM dOLVI

Plot no
42,43,50,44,45,54,55,56,33,32,38,49,75 ,77,139,142

Taluka
PEN

Village
DOLVI VILLAGE VILLAGE

Capital Investment (In lakhs)
1928700

Scale
LARGE

City
PEN

Pincode
402107

Person Name
DR.ANAND RAI

Designation
VICE PRESIDENT(HOD ENVIRONMENT)

Telephone Number
02143663000

Fax Number
000

Email
anand.rai@jsw.in

Region
SRO-Raigad II

Industry Category
Red

Industry Type
R53 Iron & Steel (involving processing from ore/ integrated steel plants) and or Sponge Iron units

Last Environmental statement submitted online
yes

Consent Number
Format 1.0/CAC /UAN NO.0000136178/CR- 2303000522

Consent Issue Date
2023-03-08

Consent Valid Upto
2024-04-30

Establishment Year
2021

Date of last environment statement submitted
Sep 29 2023 12:00:00:000AM

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

Product Information

Product Name	***Consent Quantity***	***Actual Quantity***	***UOM***
Calcinated Lime (LCP-5,6,7)	1800	1643.18	Ton/Ton
Pellet (Pellet plant II)	9000000	6712587	MT/A
Crude steel/ Steel Slab (Steel Melting Shop-II)	6200000	4701799	MT/A
Hot Rolled Coil (Hot Strip Mill-II)	5000000	4419338	MT/A
Liquid Metal/Pig Iron (Blast Furnace-II)	4500000	4769008	MT/A
Power Generation	2465	164.72	MT/A

Billets	1500000	700676	MT/A
TMT Bar	1400000	789369	MT/A
Electric Power from Top gas recovery Turbine	37.25	19.26	Mwh

By-product Information

By Product Name	***Consent Quantity***	***Actual Quantity***	***UOM***
NA	0	0	Ton/Y

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for	***Consent Quantity in m3/day***	***Actual Quantity in m3/day***
Process	0.00	0.00
Cooling	88085.00	36492.00
Domestic	300.00	290.00
All others	7349.20	5909.00
Total	95734.20	42691.00

2) Effluent Generation in CMD / MLD

Particulars	***Consent Quantity***	***Actual Quantity***	***UOM***
TRADE EFFLUENT	19265	7981	CMD
DOMASTIC EFFLUENT	258	242	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***
Calcinated Lime (LCP-5,6,7) (M3/UNIT OF PRODUCT)	0.37	0.13	Ton/Ton
Pellet (Pellet plant II) (M3/UNIT OF PRODUCT)	0.12	0.10	Ton/Ton
Crude steel/ Steel Slab (Steel Melting Shop-II) (M3/UNIT OF PRODUCT)	0.59	0.61	Ton/Ton
Hot Rolled Coil (Hot Strip Mill-II)(M3/UNIT OF PRODUCT)	0.42	0.37	Ton/Ton
Liquid Metal/Pig Iron (Blast Furnace-II) (M3/UNIT OF PRODUCT)	0.76	0.61	Ton/Ton
BILLET CASTER BAR MILL (M3/UNIT OF PRODUCT)	0.72	0.33	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***
COKE	0.404	0.370	Ton/Ton
IRON ORE	0.045	0.024	Ton/Ton
PELLETS	0.1170	1.174	Ton/Ton
SINTER	0.691	0.673	Ton/Ton
QUARTZ	0.0007	0.001	Ton/Ton
DOLOMITE	0.080	0.008	Ton/Ton
LIMESTONE	0.041	0.015	Ton/Ton
COAL	0.020	0.216	Ton/Ton

Iron Ore Fines - Bacheli	0.437	0.4008	Ton/Ton
Iron Ore Fines - Odisha Fines (Low Grade)	0.305	0.057	Ton/Ton
Iron Ore Fines - Jabalpur Fines	0.0008	0.0007	Ton/Ton
Iron Ore Fines - Odisha Fines (High Grade)	0.049	0.1292	Ton/Ton
Iron Ore Fines - Odisha Fines (Medium Grade)	0.150	0.0357	Ton/Ton
Iron Ore Fines - Oxide Fines	0.061	0.0303	Ton/Ton
METALLIC (DRI/HBI, HOTMETAL, SCRAPE)	1.122	1.146	Ton/Ton
LIQUID STEEL	1.029	1.014	Ton/Ton
HOT METAL SLAB	1.122	0.0934	Ton/Ton

4) Fuel Consumption

Fuel Name	***Consent quantity***	***Actual Quantity***	***UOM***
COKE	0	1369921	Ton/Y
NUT COKE	0	212843	Ton/Y
PCI	0	1029823	Ton/Y
BF GAS	0	3885493154	NM3/Annum
COKE OVEN GAS	0	81055407.66	NM3/Annum
NATURAL GAS	0	7376993	NM3/Annum
OXYGEN	0	764176767	NM3/Annum
NITROGEN	0	446274922	NM3/Annum
LD Gas Generation	0	232601574	NM3/Annum
POWER	0	290232.681	Mwh
COKE & CPC	0	1848	Ton/Y

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***
NA	0	0	0	NA	NA

[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***
Kiln -5	21.2	16.9	No Variatio	NA	NA
Kiln -6	23.1	18.6	No Variatio	NA	NA
Kiln -7	23.3	18.7	No Variatio	NA	NA
PELLET-2 Process ESP Stack	1607.7	26.6	No Variatio	NA	NA
PELLET-2 De Dusting ESP Stack	111.2	20.1	No Variatio	NA	NA
PELLET-2 Storage Bin Stack	15.5	19.2	No Variatio	NA	NA

SMS-2 Secondary De-Dusting Stack	700.8	23.6	No Variatio	NA	NA
HSM-2 Reheating Furnace Stack	216	9.7	No Variatio	NA	NA
HSM-2 Reheating Furnace Stack	211.5	10.1	No Variatio	NA	NA
HSM-2 Fume Exhaust Stack	13.3	10.7	No Variatio	NA	NA
BF-2 Cast House Dedusting System	239.4	19.4	No Variatio	NA	NA
BF-2 Stock House De System Stack-1	736.7	21.3	No Variatio	NA	NA
BF-2 Stock House De System Stack-2	63.6	20.7	No Variatio	NA	NA
BF-2 Stock House De System Stack 3	14	18.3	No Variatio	NA	NA
BF-2 Coal Injection Stack	50.8	18.9	No Variatio	NA	NA
BF-2 Pig Iron Granulation Stack	4.7	9.0	No Variatio	NA	NA
BF-2 Stove stack	119.4	9.7	No Variatio	NA	NA
Boiler Stack 175 MW CPP	47.7	5.9	No Variatio	NA	NA

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	57.8	153.4	KL/A
5.2 Wastes or residues containing oil	10550	472	Kg/Annum
Other Hazardous Waste	0.093	0.076	Kg/Annum
Other Hazardous Waste	0	18.09	Ton/Y

2) From Pollution Control Facilities

Hazardous Waste Type	*Total During Previous Financial year*	*Total During Current Financial year*	*UOM*
0	0	0	Ltr/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	*Total During Previous Financial year*	*Total During Current Financial year*	*UOM*
BLAST FURNACE SLAG	1563857	1655498	Ton/Y
COKE FINES	423026	391867	Ton/Y
OXIDE FINES	606567	643185	Ton/Y
SINTER FINES	479884	536568	Ton/Y
Bentonite	31122	59765	Ton/Y
Limestone fines	183261	29175	Ton/Y
Olivin	158871	66021	Ton/Y
Coke Fines	50805	34483	Ton/Y
Dolomite Fines	28134	97057	Ton/Y
Dolo AGG	5045	57910	Ton/Y

TUNDISH SKULL	25523	19534	Ton/Y
Refractory	10442	31999	Ton/Y
Mill SCALE	8874	9414	Ton/Y
BOF SLAG	51033	614144	Ton/Y
LF SLAG	47871	128965	Ton/Y
KR SLAG	21213	113201	Ton/Y
SCALE FROM BAR MILL	106239	6335	Ton/Y

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
GCP DUST (Dust pot + Dust catcher)	135625	156050	Ton/Y
GCP DUST SMS II	100267	120595	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Other Hazardous Waste	0	0	Ton/Y

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	153.4	KL/A	NA
5.2 Wastes or residues containing oil	473	Kg/Annum	NA
Other Hazardous Waste	0.076	Ton/Y	Oil Filter
Other Hazardous Waste	18.09	Ton/Y	Used Glass Wool

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
NA	0	Ton/Y	NA

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)
0	0	0	0	0	1928700	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

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

NA	NA	0

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	*Environmental Protection Measures*	*Capital Investment (Lacks)*
NA	NA	0

Part-I

Any other particulars for improving the quality of the environment.

Particulars

The company is aware of surrounding Environment. JSW Steel Limited has planted a large number of trees on the plant premises as per the guidelines given by MPCB. We are maintaining the full-fledged Nursery managed by a qualified Horticulture Officers to develop plants for our in-house requirement. Till date about 215925 Nos. big trees and 8565972 Nos. small trees including innumerable flower bushes, ornamental trees etc. have been planted.

Name & Designation

DR.ANAND RAI VICE PRESIDENT (HOD-ENVIRONMENT)

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000070718

Submitted On:

21-09-2024

Environment Statement for plants under Phase 2

Coke Oven Plant 2

Maharashtra Pollution Control Board
महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V
(See Rule 14)
Environmental Audit Report for the financial Year ending the 31st March 2024

Unique Application Number	***Submitted Date***
MPCB-ENVIRONMENT_STATEMENT-0000070254	18-09-2024

PART A

Company Information

Company Name	***Application UAN number***	
JSW STEEL LIMITED (COKE OVEN PLANT II)	-0000155156	
Address		
GEETAPURM dOLVI		
Plot no	***Taluka***	***Village***
91 TO 113	PEN	KHAR KARAV VILLAGE
Capital Investment (In lakhs)	***Scale***	***City***
405000	LARGE	PEN
Pincode	***Person Name***	***Designation***
402107	DR.ANAND RAI	VICE PRESIDENT(HOD ENVIRONMENT)
Telephone Number	***Fax Number***	***Email***
02143663000	000	anand.rai@jsw.in
Region	***Industry Category***	***Industry Type***
SRO-Raigad II	Red	R53 Iron & Steel (involving processing from ore/ integrated steel plants) and or Sponge Iron units
Last Environmental statement submitted online	***Consent Number***	***Consent Issue Date***
yes	Format 1.0/CAC/UAN NO.0000155156/C0- 2305001427	2023-08-22
Consent Valid Upto	***Establishment Year***	***Date of last environment statement submitted***
2027-12-31	2018	Sep 11 2023 12:00:00:000AM
Industry Category Primary (STC Code) & Secondary (STC Code)		

Product Information

Product Name	***Consent Quantity***	***Actual Quantity***	***UOM***
Dry Coke	30000000	2586850	Ton/Y

By-product Information

By Product Name	***Consent Quantity***	***Actual Quantity***	***UOM***
Coke Oven Gas	150000	1157176	Ton/Y
Tar	131386	99111	Ton/Y
Crude Benzene, Toluene, Xylene ,Benzol	37248	18677	Ton/Y

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for	Consent Quantity in m3/day	Actual Quantity in m3/day
Process	19053.60	7259.00
Cooling	9216.00	0.00
Domestic	82.08	32.00
All others	50.00	0.00
Total	28401.68	7291.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
TRADE EFFLUENT	8340	3689	CMD
DOMASTIC EFFLUENT	60	26	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
Dry Coke (M3/UNIT OF PRODUCT)	0.0038	1.0	MT/A

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
Hard Coking Coal	0.685	0.615	Ton/Ton
Semi Hard Coa	0.408	0.375	Ton/Ton
PCI Coal	0.083	0.077	Ton/Ton
Secondary Hard Coking Coal	0.206	0.208	Ton/Ton
MSK/SMM/NAMOI/Coke Fines	0.159	0.150	Ton/Ton
Corex	0.000	0.038	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Coke Oven Gas	0	21510000000000	M3/Anum
BF Gas	0	2733400000000000	M3/Anum

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	0	7.2	No Variation	06.0 TO 8.5	NA
COD	0	79.4	No Variatio	0250	NA
MH3-N	0	20.5	No Variatio	50	0
TSS	0	92	No Variatio	100	0

PHENOL	0	0.33	No Variatio	1.0	0
CYNIDE AS CN	0	0.05	No Variatio	00.2	0
BOD	0	23	No Variatio	30	0
TDS	0	1655	No Variatio	2100	0
OIL & GREASE	0	15	No Variatio	10	0

[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***
Coke Oven Battery Main Stack 1	269.7	37.8	No Variatio	50	NA
Coke Oven Battery Pushing Side	12.5	7.8	No Variatio	50	NA
Coke Oven Battery Charging Side	8.6	8.5	No Variatio	50	NA
Coal Crushing	11.6	15.9	No Variatio	50	NA
Coke Cutting	11.9	15.5	No Variatio	50	NA
Coke Bunker	31.6	17.6	No Variatio	50	NA
Boiler	20.4	17.5	No Variatio	50	NA
Coke Oven Battery Main Stack (C &D)	375.8	35.3	No Variatio	50	NA
Coke Oven Battery Pushing Side	9.1	83.25	No Variatio	50	NA
Coke Oven Battery Charging Side	7.1	9.1	No Variatio	50	NA

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	0	17.800	KL/A
5.2 Wastes or residues containing oil	0.900	0.872	MT/A
13.4 Decanter tank tar sludge	136.49	99.5	KL/A
29.5 Spent catalysts	0	0.960	Kg/Annum
35.3 Chemical sludge from waste water treatment	0	1.96	Kg/Annum

2) From Pollution Control Facilities

Hazardous Waste Type	***Total During Previous Financial year***	***Total During Current Financial year***	***UOM***
0	0	0	Ltr/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	***Total During Previous Financial year***	***Total During Current Financial year***	***UOM***

Coke Breeze	64964	57283	Ton/Y

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	6145.2	6360.8	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Other Hazardous Waste	71109.24	63643.8	Ton/Y

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	17.800	KL/A	Sale to MPCB Authorized Recycler
5.2 Wastes or residues containing oil	0.872	MT/A	Use as Fuel in Furnace
13.4 Decanter tank tar sludge	99.5	KL/A	100% recycle for coke making

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Coke Breeze, Coal and Coke dust from de dusting system	63643.8	Ton/Y	USED AT SINTER PLANT FOR SINTER MAKING

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)
0	0	0	0	0	405000	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

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NA	NA	0

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NA	NA	0

Part-I

Any other particulars for improving the quality of the environment.

Particulars

The company is aware of surrounding Environment. JSW Steel Limited has planted a large number of trees on the plant premises as per the guidelines given by MPCB. We are maintaining the full-fledged Nursery managed by a qualified Horticulture Officers to develop plants for our in-house requirement. Till date about 215925 Nos. big trees and 8565972 Nos. small trees including innumerable flower bushes, ornamental trees etc. have been planted.

Name & Designation

DR.ANAND RAI VICE PRESIDENT (HOD-ENVIRONMENT)

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000070254

Submitted On:

18-09-2024

Environment Statement for Metal Recovery Plant (Slag Processing - Harsco

Maharashtra Pollution Control Board
महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

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

Unique Application Number	***Submitted Date***
MPCB-ENVIRONMENT_STATEMENT-0000068859	02-09-2024

PART A

Company Information

Company Name	***Application UAN number***	
HARSCO INDIA METALS PVT LTD	0000057227	
Address		
GEETAPURM dOLVI		
Plot no	***Taluka***	***Village***
12,13,14 & PART OF 6,11,16,17,18,19	PEN	DOLVI
Capital Investment (In lakhs)	***Scale***	***City***
9423.98	LARGE	PEN
Pincode	***Person Name***	***Designation***
402107	DR.ANAND RAI	VICE PRESIDENT(HOD ENVIRONMENT)
Telephone Number	***Fax Number***	***Email***
02143663000	000	anand.rai@jsw.in
Region	***Industry Category***	***Industry Type***
SRO-Raigad II	Red	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	***Consent Number***	***Consent Issue Date***
yes	Format 1.0/CAC/UAN NO.0000155183/CR- 2305001573	2023-04-22
Consent Valid Upto	***Establishment Year***	***Date of last environment statement submitted***
2027-12-31	2011	Sep 11 2023 12:00:00:000AM
Industry Category Primary (STC Code) & Secondary (STC Code)		

Product Information

Product Name	***Consent Quantity***	***Actual Quantity***	***UOM***
Metallic arising	68000	11223	
Slag arising	852000	142519	
Large steel scarp	14400	6845	

By-product Information

By Product Name	***Consent Quantity***	***Actual Quantity***	***UOM***

NA	0	0	Ton/Y

Part-B (Water & Raw Material Consumption)

1) Water Consumption in m3/day

Water Consumption for	Consent Quantity in m3/day	Actual Quantity in m3/day
Process	100.00	98.00
Cooling	10.00	9.00
Domestic	7.00	6.00
All others	0.00	0.00
Total	117.00	113.00

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
TRADE EFFLUENT	14	6	CMD
DOMASTIC EFFLUENT	6	5	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
SLAG ARISING (M3/UNIT OF PRODUCT)	0	0	MT/A

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
Slag (EAF & LF Slag)	1790787	125769	MT/A

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
NA	0	0	Mwh

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
NA	0	0	0	0	0

[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
METAL RECOVERY DUST SEPRATION STACK S-1	68.2	48.4	67.72	150	NA
METAL RECOVERY DUST SEPRATION STACK S-2	93.0	49.4	67.07	150	NA

METAL RECOVERY DUST SEPRATION STACK S-3	72.2	47.1	68.59	150	NA

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	6.8	11.9	KL/A
5.2 Wastes or residues containing oil	0	70	Kg/Annum
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	0	10	Nos./Y
35.3 Chemical sludge from waste water treatment	0	0.960	Kg/Annum

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ltr/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	Ton/Y

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	0	0	Ton/Y

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	Ton/Y

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	11.9	KL/A	SOLD TO MPCB AUTHORISED RECYCLER
5.2 Wastes or residues containing oil	70	Kg/Annum	SENT TO CHWTSDF
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	10	Nos./Y	SENT TO CHWTSDF
35.3 Chemical sludge from waste water treatment	960	Kg/Annum	SENT TO CHWTSDF

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste

NA	0	Ton/Y	NA

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)
0	0	0	0	0	9423.98	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

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NA	NA	0

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
NA	NA	0

Part-I

Any other particulars for improving the quality of the environment.

Particulars

The company is well aware of surrounding Environment. JSW Steel Limited has planted large number of trees in the plant premises as per the guidelines given by MPCB. We are maintaining the full-fledged Nursery managed by a qualified Horticulture Officers to develop plants for our in house requirement. Till date about 215925 Nos. big trees and 8565972 Nos. small trees including innumerable flower bushes, ornamental trees etc. have been planted.

Name & Designation

DR.ANAND RAI VICE PRESIDENT (HOD-ENVIRONMENT)

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000068859

Submitted On:

02-09-2024