



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2021

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000034502

Submitted Date

30-08-2021

PART A

Company Information

Company Name

JSW STEEL LIMITED (SPONGE IRON PLANT)

Application UAN number

0000034884

Address

GEETAPURAM DOLVI

Plot no

82,87,101,109

Taluka

PEN

Village

DOLVI

Capital Investment (In lakhs)

74617

Scale

LARGE

City

PEN

Pincode

402107

Person Name

DR. ANAND RAI

Designation

GENERAL MANAGER (HOD-ENVIRONMENT)

Telephone Number

02143277501

Fax Number

2143-277542

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

BO/CAC-CELL/UAN NO.0000034884-17/CAC-1804000346

Consent Issue Date

07/04/2018

Consent Valid Upto

31/12/2022

Establishment Year

1994

Date of last environment statement submitted

Sep 8 2020 12:00:00:000AM

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

RED

Product Information

Product Name

DIRECT REDUCED IRON

Consent Quantity

2.0 MTPA

Actual Quantity

1168874

UOM

Ton/Y

By-product Information

By Product Name

NA

Consent Quantity

NA

Actual Quantity

NA

UOM

MT/A

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	8000	3135.41
Domestic	NA	NA
All others	24	22
Total	NA.	NA.
	8024	3157.41

2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	3624	100% RECYCLED	CMD
Domestic Effluent	18	18	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
DIRECT REDUCED IRON (M3/UNIT OF PRODUCT)	0.0029	0.0907	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
NMDC BACHELI	0.055	0.935	MT/A
ARCL PELLET	1.548	1.284	MT/A
MIXED ORE	0.0009	0.013	MT/A
REMET	0.0014	0.0064	MT/A

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
COKE OVEN GAS	NA	65273.65 KSCM	MT/A
NATURAL GAS	NA	52679 KSCM	MT/A
OXYGEN	NA	5826780 M3	MT/A
NITROGEN	NA	6180486 M3	MT/A
POWER	NA	124960460 KWH	MT/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) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
NA	NA	NA	NA	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	Standard	Reason
	Quantity	Concentration	%variation		
Flue Gas Ejector Stack	82.4	8.3	91.7	100	NA
Reduction Furnace Dust Collector Stack	12.7	19.5	80.5	100	NA
Product Screen Dust Collector Stack I	14.1	23.5	76.5	100	NA
Product Screen Dust Collector Stack II	16.6	24.8	75.2	100	NA
Screen Dust Collector Stack C304	13.8	23.5	76.51	100	NA
Product Silo Dust Collector Stack	9.8	18.4	81.6	100	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	6000	23600	Ltr/A
5.2 Wastes or residues containing oil	2400	2300	Kg/Annum
3.3 Sludge and filters contaminated with oil	30	14	Kg/Annum
26.5 Spent catalyst	NA	115 NICKEL CATALIST	MT/A
26.5 Spent catalyst	NA	NIL SPENT ZINC CATALIST	MT/A

2) From Pollution Control Facilities

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

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
iron ore oxide fines	149174	241387	Ton/Y

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
ETP SLUDGE	107168	132435	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	256342	373822	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	23600	Ltr/A	Sent to MPCB Authorised Recycler
5.2 Wastes or residues containing oil	2300	Kg/Annum	used in furnace
3.3 Sludge and filters contaminated with oil	14	Kg/Annum	used in furnace
26.5 Spent catalyst	0	Ton/Y	NA
26.5 Spent catalyst	NA	Ton/Y	NA

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
IRON OXIDE FINES GENERATED FROM PROCESS	241387	MT/A	REUSED-IN SINTER PLANT FOR SINTER MAKING
SOLID WASRE GENERATED FROM PROCESS WATER TREATMENT PLANT	132435	MT/A	REUSED-IN 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)
NA.	NA.	NA.	NA.	NA.	74617	NA.

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)
FDC INTER CONNECTION WORK	IMPROVE WORK ZONE & AMBIENT AIR QUALITY	30
FILTER PRESS FOR CLARIFYER SLUDGE	WATER TREATMENT	700
CEMS STACK FLOW MEASUREMENT ON -LINE PROVISION	STACK MONITORING	32
CAPACITY ENHANCEMENT OF DUST COLLECTION SYSTEM OF CBP	IMPROVE WORK ZONE & AMBIENT AIR QUALITY	20

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
DE-DUSTING SYSTEM FOR OXIDE SECONDRY SCREEN HOUSE	IMPROVE WORK ZONE & AMBIENT AIR QUALITY	50
REMATE BOX DUST SUPPRESSION SYSTEM	IMPROVE WORK ZONE & AMBIENT AIR QUALITY	20

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 202764 Nos. big trees and 564000 Nos. small trees including innumerable flower bushes, ornamental trees etc. have been planted.

Name & Designation

DR.ANAND RAI GENERAL MANAGER (HOD-ENVIRONMENT)

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000034502

Submitted On:

30-08-2021