



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

Environmental Audit Report for the financial Year ending the 31st March 2017

Company Information

Company Name	JSW STEEL LTD (Sponge Iron Plant)	Application UAN number	NA				
Address	Geetapuram	Taluka	Pen	Village	Dolvi		
Plot no	Sponge Iron Plant	Scale	Large	City	Raigad		
Capital Investment (In lakhs)	60866	Person Name	Vitthal.Waghchaure	Designation	General Manager		
Pincode	402107	Fax Number	2143-277542	Email	vitthal.waghchaure@jsw.in		
Telephone Number	2143-277501	Industry Category	Red	Industry Type	R53 Iron & Steel (involving processing from ore/ integrated steel plants) and or Sponge Iron units		
Region	SRO-Raigad II	Last Environmental statement submitted online	no	Consent Number	BO/JD(APC) /EIC No. RD-2503-13/CCCAC- 1588	Consent Issue Date	25/07/2013
Consent Valid Upto	31/12/2017						

Product Information

Product Name	Consent Quantity	Actual Quantity	UOM
Direct Reduced Iron	2000000	1495280	MT/A

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
NA	NA	NA	MT/A

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	8000	3977.30
Domestic	NA	NA
All others	100	51.0
Total	NA	NA
	8100	4028.30

1) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
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Trade Effluent	3624	251.50	CMD
Sewage Effluent	65	41	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/MT of Product)	0.89	0.898	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
Iron Ore Lumps / Iron Ore Pellets	1.391	1.450	MT/A
Natural Gas (GCal)	2.340	2.368	Qnt/Y
Oxygen (M3)	4.54	4.85	Qnt/Y
Nitrogen (M3)	0.0	2.75	Qnt/Y
Lime (Kg/MT)	3.85	3.02	Qnt/Y

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Natural Gas M3/Month	48600000	1112938.40	Qnt/Y

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
NO DISCHARGE FROM THE PLANT	NA	NA	NA	NA	NA

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
Flue Gas Ejector	55.82	4.35	91.31	50	NA
Reduction Furnace	11.37	23.89	52.23	50	NA
Product Screen Dust Collection I	16.75	26.79	46.43	50	NA
Product Screen Dust Collection II	17.74	27.73	44.54	50	NA
Product Silo Dust Collection	5.86	9.83	80.35	50	NA

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used /spent oil	19400	9000	Ltr/A
35.2 Spent catalyst*	25.29 (Nickel Catalyst)	0.0	MT/A
5.2 Wastes/residue containing oil	956.0	652.0	Kg/Annum

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0.0	0.0	MT/A

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
From Process	82353	53471	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
From ETP	40167	66056	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	122520	119527	MT/A

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 /spent oil	9000	Ltr/A	NA
35.2 Spent catalyst*	0.0	MT/A	NA
5.2 Wastes/residue containing oil	652.0	Kg/Annum	NA

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
The Solid waste (Iron oxide fines) generated from process	53471	MT/A	This has been used at Sinter plant for Sinter making.
Solid waste generated from Process Water Treatment Plant	66056	MT/A	This sludge is used for Sinter making.

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)
APC & WPC	0.022 M3/MT	0.019 Gcal/MT	0.04 MT/T DRI	1.82 KWH/MT	60866	506.87

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 (Lacs)
Roads, Paving,Gardening	Improve Work Zone & Ambient Air Quality	128.0
Pneumatic Conveying of Dust	Improve Work Zone & Ambient Air Quality	402.0
DE System for Ground Hopper	Improve Work Zone & Ambient Air Quality	400.00

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
CEMS System	Improve monitoring quality	23.5

Any other particulars in respect of environmental protection and abatement of pollution.

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 200564 Nos. big trees and 493781 Nos. small trees including innumerable flower bushes, ornamental trees etc. have been planted.

Name & Designation

Vitthal Waghchaure, General Manager