



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 | Application UAN number | | |
| JSW STEEL LTD (BLAST FURNACE) | NA | | |
| Address | | | |
| Geetapuram | | | |
| Plot no | Taluka | Village | |
| Blast Furnace | PEN | DOLVI | |
| Capital Investment (In lakhs) | Scale | City | |
| 201144 | Large | Raigad | |
| Pincode | Person Name | Designation | |
| 402107 | Vitthal.Waghchaure | General Manager | |
| Telephone Number | Fax Number | Email | |
| 2143-277501 | 2143-277542 | vitthal.waghchaure@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/BO/CAC-Cell/EIC No. RD-3181-15/CAC- 6400 | 13/05/2016 | |
| Consent Valid Upto | | | |
| 31/12/2017 | | | |

Product Information

| Product Name | Consent Quantity | Actual Quantity | UOM |
|-------------------------------|------------------|-----------------|------|
| Liquid Metal /Pig Iron (MT/M) | 291667 | 242603.1 | MT/A |

By-product Information

| By Product Name | Consent Quantity | Actual Quantity | UOM |
|---------------------------|------------------|-----------------|------|
| Granulated BF Slag (MT/M) | 106824 | 86331.31 | MT/A |

1) Water Consumption in m3/day

| Water Consumption for Process | Consent Quantity in m3/day | Actual Quantity in m3/day |
|-------------------------------|----------------------------|----------------------------------|
| Cooling | NA | NA |
| Domestic | 82 | Included in Hot Strip Mill Plant |
| All others | NA | NA |
| Total | 17161 | 7327.77 |

1) Effluent Generation in CMD / MLD

| Particulars | Consent Quantity | Actual Quantity | UOM |
|-------------|------------------|-----------------|-----|
|-------------|------------------|-----------------|-----|

| | | | |
|----------|--------|---------------------|-----|
| Domestic | 36.5 | 30.0 | CMD |
| Process | 916.86 | Nil (100% Recycled) | 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 |
|---|---|--|------------|
| Liquid Metal/ Pig Iron (M3 / MT of Liquid Metal Production) | 0.7751 | 0.5994 | CMD |

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 (KG/THM) | 372.5 | 363.8 | Kg/Annum |
| Iron Ore (KG/THM) | 0.662 | 22.41 | Kg/Annum |
| Pellets (KG/THM) | 539.82 | 444.97 | Kg/Annum |
| Sinter (KG/THM) | 1059 | 1082.21 | Kg/Annum |
| Quartz (KG/THM) | 11.73 | 42.05 | Kg/Annum |
| Dolomite (KG/THM) | 1.682 | 4.58 | Kg/Annum |
| Lime Stone (KG/THM) | 0.008 | 2.88 | Kg/Annum |
| Power (Kwh/THM) | 101.84 | 88.9 | Mwh |
| Coal Injection Dry | 130.37 | 139.25 | Kg/Annum |

4) Fuel Consumption

| Fuel Name | Consent quantity | Actual Quantity | UOM |
|------------------------|-------------------------|------------------------|------------|
| Coal (Ton/Day) | 2520 | 1219.63 | |
| Coke (Ton/Day) | 6003 | 3186.61 | |
| B.F.Gas (Nm3/Hr) | 150500 | 140800 | |
| RLNG(Nm3/Hr) | 15750 | 12054 | |
| Coke Oven Gas (Nm3/Hr) | 12000 | 10245 | |

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) Quantity | Concentration of Pollutants discharged(Mg/NM3) Concentration | Percentage of variation from prescribed standards with reasons %variation | Standard | Reason |
|--|--|---|--|-----------------|---------------|
| Stock House De-dusting system stack-I | 115.69 | 35.58 | 76.28 | 50 | NA |
| Stock House De-dusting system stack-II | 80.11 | 27.23 | 81.85 | 50 | NA |
| Stove Stack | 122.80 | 10.98 | 92.68 | 50 | NA |
| Cast House Stack | 257.05 | 25.96 | 82.69 | 50 | NA |

| | | | | | |
|--------|-------|------|-------|----|----|
| Boiler | 21.66 | 9.91 | 93.39 | 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 | 28200 | 15600 | Ltr/A |
| 5.2 Wastes/residue containing oil | 412 | 435 | Kg/Annum |
| 35.1 Filters and filter material which have organic liquid | Nil | Nil | Kg/Annum |

2) From Pollution Control Facilities

| Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|-----------------------------|---|--|------------|
| 0 | NA | NA | MT/A |

SOLID WASTES

1) From Process

| Non Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|---------------------------------|---|--|------------|
| B.F Slag MT/A | 381825.7 | 1035975.8 | MT/A |
| Coke Fines MT/A | 96227 | 264279.0 | MT/A |
| Oxide Fines MT/A | 14704.4 | 47845.7 | MT/A |
| Skull/Fines MT/A | 220.70 | 3221.65 | MT/A |
| B.F.Scrap MT/A | NA | 8249.84 | MT/A |

2) From Pollution Control Facilities

| Non Hazardous Waste Type | Total During Previous Financial year | Total During Current Financial year | UOM |
|---------------------------------|---|--|------------|
| GCP Dust Catcher MT/A | 13750.17 | 34689.4 | MT/A |
| WWTP Sludge MT/A | 11735 | 20139.5 | 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 | NA | NA | 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 | 15600 | Ltr/A | Sold to Authorized party |
| 5.2 Wastes/residue containing oil | 435 | Kg/Annum | Used in Furnace |

2) Solid Waste

| Type of Solid Waste Generated | Qty of Solid Waste | UOM | Concentration of Solid Waste |
|--|---------------------------|------------|---|
| The solid waste consists of Blast Furnace slag, Dust from Gas Cleaning Plant dust catcher, Sludge from Wastewater Treatment Plant and Fines generation from Raw Material (Coke & Oxide). | 1403070.99 | MT/A | Slag generated from Blast furnace plant 1035975.8 MT is converted into granules in Slag granulation plant and used for cement making. Sludge & Dust generated from GCP Wastewater Treatment Plant and D |

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 | 201144 | NA |

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) |
|--|--|-----------------------------------|
| Road Concreting, Drain, Gardening | Improve Ambient Air Qulaity | 412 |

[B] Investment Proposed for next Year

| Detail of measures for Environmental Protection | Environmental Protection Measures | Capital Investment (Lacks) |
|--|--|-----------------------------------|
| SGP water collecting system | Water Recycling | 130 |

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