



# 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 ( HOT STRIP MILL PLANT & LIME  
CALCINATION PLANT

**Application UAN number**

NA

**Address**

GEETAPURAM

**Plot no**

HOT STRIP MILL& LIME CALCINATION PLANT

**Taluka**

PEN

**Village**

DOLVI

**Capital Investment (In lakhs)**

346635

**Scale**

LARGE SCALE

**City**

RAIGAD

**Pincode**

402107

**Person Name**

VITTHAL WAGHCHAURE

**Designation**

GENERAL MANAGER

**Telephone Number**

02143-277501

**Fax Number**

02143-277542

**Email**

vitthal.waghchaure@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/EIC No . RD- 2763-14/CAC-6193

**Consent Issue Date**

25/05/2015

**Consent Valid Upto**

30/06/2018

### Product Information

**Product Name**

HOT ROLL COIL

**Consent Quantity**

30000000

**Actual Quantity**

2955000

**UOM**

MT/A

LIME

117000

100377

MT/A

CALCINATED DOLOMITE

108000

101030

MT/A

OXYGEN

36000

18127.3

MT/A

CALCINATED LIME

216000

207521

MT/A

### By-product Information

**By Product Name**

NA

**Consent Quantity**

NA

**Actual Quantity**

NA

**UOM**

MT/A

### 1) Water Consumption in m3/day

**Water Consumption for Process****Consent Quantity in m3/day**

15840

**Actual Quantity in m3/day**

7317.18

**Cooling**

NA

NA

**Domestic**

300

294.69

<b>All others</b>	NA	NA
<b>Total</b>	16140	7611.87

### **1) Effluent Generation in CMD / MLD**

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
TRADE EFFLUENT	3408	NIL	CMD
DOMESTIC EFFLUENT	240	NIL	CMD

### **2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)**

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
HOT ROLLED COIL	1.23	0.866	MT/A

### **3) Raw Material Consumption (Consumption of raw material per unit of product)**

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
METALLIC(DRI/HBI ,HOT METAL,SCRAPE)	1.23	1.45	MT/A
FERRO & MICRO ALLOYS	4.14	8.19	MT/A
FLUXES LIKE LIME,FLUX DOLO,RAW DOLOMITE CALCINATED BAUXITE,FLOURSPAR ETC	102.86	125.05	MT/A
REFRACTORIES LIKE FETTLING,ANKER FRIET,ORI HEARTH, LADLE INSULATING AND LADLE FILLING ETC	11.7	12.65	MT/A
CARBURIXERS LIKE COKE BREEZE,NUT COKE ,CPC	12.89	12.50	MT/A
ELECTRODES	1.54	1.16	MT/A
POWER (TOTAL)	349.02	245.28	Mwh

### **4) Fuel Consumption**

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
COKE & CPC	112	106.54	

### **Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)**

#### **[A] Water**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
NA	NA	NA	NA	NA	NA

#### **[B] Air (Stack)**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day) Quantity</b>	<b>Concentration of Pollutants discharged(Mg/NM3) Concentration</b>	<b>Percentage of variation from prescribed standards with reasons %variation</b>	<b>Standard</b>	<b>Reason</b>
GAS CLEANING PLANT I	929.34	30.84	79.44	100	NA
GAS CLEANING PLANT II	779.16	30.37	79.75	100	NA
GAS CLEANING PLANT III	372.72	26.12	82.58	100	NA
TUNNEL FURNACE I-A	8.48	11.38	92.41	100	NA

TUNNEL FURNACE I-B	6.52	12.47	91.68	100	NA
TUNNEL FURNACE II-A	5.98	10.75	92.83	100	NA
TUNNEL FURNACE II-B	5.85	11.29	92.48	100	NA
BOILER	8.09	12	92.00	100	NA
DE-DUSTING SYSTEM	43.08	25.10	83.27	100	NA
LIME STONE DE-DUSTING STACK FOR KILN I & II	9.24	19.00	87.34	100	NA
KILN I STACK	15.51	24.98	83.35	100	NA
KILN II STACK	12.04	21.79	85.48	100	NA
LIME DE-DUSTING STACK FOR KILN I & II	14.89	29.30	80.47	100	NA
LIME STONE DE-DUSTING STACK FOR KILN III	18.82	19.27	87.15	100	NA
KILN III STACK	31.86	24.84	82.77	100	NA
LIME DE-DUSTING STACK FOR KILN I II	23.90	29.25	80.50	100	NA

### **HAZARDOUS WASTES**

#### **1) From Process**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used /spent oil	111000	104800	Ltr/A
5.2 Wastes/residue containing oil	10	2.9	Ton/Y

#### **2) From Pollution Control Facilities**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
0	NA	NA	Nos./Y

### **SOLID WASTES**

#### **1) From Process**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
TUNDEISH SKULL	2141	8221.47	MT/A
SLAG (EAF & LF)	532525	913938	MT/A
SCALE	15982	33289.7	MT/A
GCP & DE-DUSTING SYSTEM DUST	42706	115075	MT/A
LADLE SKULL	2753	13262.70	MT/A

#### **2) From Pollution Control Facilities**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
FINE SCALE FROM WWTP	3470	4402	MT/A
LIME DUST	36872	22065	MT/A

#### **3) Quantity Recycled or Re-utilized within the unit**

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
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	104800	Ltr/A	NA
5.2 Wastes/residue containing oil	2.9	Ton/Y	NA

### 2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
SKULL EAF & LF SLAG, SCALE,GCP & DEDUSTING SYSTEM DUST ,FINE SCALE FROM WWTP	1083786.87	MT/A	NA

### 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	0.364	NA	NA	103.74	346635	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)
TELESCOPIC CHUTE AT DUST SILO & DUST TRANSPORT THROUGH BULKARS	TELESCOPIC CHUTE AT DUST SILO & DUST TRANSPORT THROUGH BULKARS	120
REVAMPING OF DE21 & L16 SYSTEM.	REVAMPING OF DE 2 & L16 SYSTEM	50

#### [B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
SMS MECH BELT FOR GCP DUST HANDLING & UNLOADING IN TANKERS	SMS MECH BELT FOR GCP DUST HANDLING & UNLOADING IN TANKERS	50

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

#### Particulars

NIL

#### Name & Designation

VITTHAL M WAGHCHAURE ,GENERAL MANAGER