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

## Company Information

**Company Name**
JSW STEEL LTD (BILLET CASTER & BARMILL)

**Application UAN number**
NA

**Address**
GEETAPURAM

**Plot no**
BILLET CASTER & BAR MILL

**Taluka**
PEN

**Village**
DOLVI

**Capital Investment (In lakhs)**
102700

**Scale**
LARGE

**City**
RAIGAD

**Pincode**
402107

**Person Name**
Vitthal.Waghchaure

**Designation**
General Manager

**Telephone Number**
2143-277501

**Fax Number**
2143-277542

**Email**
Vitthal.Waghchaure@jsw.in

**Industry Category**
SRO-Raigad II

**Region**
Red

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

**Last Environmental statement submitted online**
no

**Consent Number**
format 1.0/BO/CAC -Cell/EIC No:- RD-3182-15/CAC-9909

**Consent Issue Date**
29/8/2016

**Consent Valid Upto**
31/5/2017

## Product Information

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Consent Quantity</th>
<th>Actual Quantity</th>
<th>UOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>BILLETS</td>
<td>1500000</td>
<td>460996.859</td>
<td>MT/A</td>
</tr>
<tr>
<td>TMT BAR</td>
<td>1400000</td>
<td>358852</td>
<td>MT/A</td>
</tr>
</tbody>
</table>

## By-product Information

<table>
<thead>
<tr>
<th>By Product Name</th>
<th>Consent Quantity</th>
<th>Actual Quantity</th>
<th>UOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>MT/A</td>
</tr>
</tbody>
</table>

## 1) Water Consumption in m3/day

<table>
<thead>
<tr>
<th></th>
<th>Consent Quantity in m3/day</th>
<th>Actual Quantity in m3/day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process</td>
<td>890.0</td>
<td>1388.6</td>
</tr>
<tr>
<td>Cooling</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Domestic</td>
<td>60</td>
<td>6.2</td>
</tr>
<tr>
<td>All others</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Total</td>
<td>8960</td>
<td>1395</td>
</tr>
</tbody>
</table>
### 1) Effluent Generation in CMD / MLD

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Consent Quantity</th>
<th>Actual Quantity</th>
<th>UOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Effluent</td>
<td>1800</td>
<td>NA</td>
<td>CMD</td>
</tr>
<tr>
<td>Domestic Effluent</td>
<td>30</td>
<td>5.0</td>
<td>CMD</td>
</tr>
</tbody>
</table>

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

#### Name of Products (Production)

<table>
<thead>
<tr>
<th>Name of Products (Production)</th>
<th>During the Previous financial Year</th>
<th>During the current Financial year</th>
<th>UOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>BILLET CASTER &amp; BARMILL</td>
<td>NA</td>
<td>0.0339</td>
<td>CMD</td>
</tr>
</tbody>
</table>

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

#### Name of Raw Materials

<table>
<thead>
<tr>
<th>Name of Raw Materials</th>
<th>During the Previous financial Year</th>
<th>During the current Financial year</th>
<th>UOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>HOT METAL</td>
<td>NA</td>
<td>1.012</td>
<td>Ton/Ton</td>
</tr>
<tr>
<td>BILLETS</td>
<td>NA</td>
<td>1.055</td>
<td>Ton/Ton</td>
</tr>
</tbody>
</table>

### 4) Fuel Consumption

#### Fuel Name

<table>
<thead>
<tr>
<th>Fuel Name</th>
<th>Consent quantity</th>
<th>Actual Quantity</th>
<th>UOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>NATURAL GAS</td>
<td>3000NM3/DAY</td>
<td>515.79</td>
<td>Ton/Ton</td>
</tr>
<tr>
<td>Coke Oven Gas + BF GAS (Nm3/Hr)</td>
<td>1045</td>
<td>166.899</td>
<td>Ton/Ton</td>
</tr>
</tbody>
</table>

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

#### [A] Water

<table>
<thead>
<tr>
<th>Pollutants Detail</th>
<th>Quantity of Pollutants discharged (kL/day)</th>
<th>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration</th>
<th>Percentage of variation from prescribed standards with reasons</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

#### [B] Air (Stack)

<table>
<thead>
<tr>
<th>Pollutants Detail</th>
<th>Quantity of Pollutants discharged (kL/day)</th>
<th>Concentration of Pollutants discharged(Mg/NM3)</th>
<th>Percentage of variation from prescribed standards with reasons</th>
</tr>
</thead>
<tbody>
<tr>
<td>LADLE HEATING FURNACE STACK</td>
<td>30.55</td>
<td>16.55</td>
<td>NIL</td>
</tr>
<tr>
<td>BAR MILL REHEATING FURNACE</td>
<td>0.46</td>
<td>6.53</td>
<td>NIL</td>
</tr>
</tbody>
</table>

### HAZARDOUS WASTES

#### 1) From Process

<table>
<thead>
<tr>
<th>Hazardous Waste Type</th>
<th>Total During Previous Financial year</th>
<th>Total During Current Financial year</th>
<th>UOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1 Used /spent oil</td>
<td>NIL</td>
<td>9000</td>
<td>Ltr/A</td>
</tr>
<tr>
<td>5.2 Wastes/residue containing oil</td>
<td>NIL</td>
<td>700</td>
<td>Kg/Annum</td>
</tr>
</tbody>
</table>

#### 2) From Pollution Control Facilities

<table>
<thead>
<tr>
<th>Hazardous Waste Type</th>
<th>Total During Previous Financial year</th>
<th>Total During Current Financial year</th>
<th>UOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>NA</td>
<td>NA</td>
<td>Ltr/A</td>
</tr>
</tbody>
</table>

### SOLID WASTES
### 1) From Process

<table>
<thead>
<tr>
<th>Non Hazardous Waste Type</th>
<th>Total During Previous Financial year</th>
<th>Total During Current Financial year</th>
<th>UOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCALE FROM LADLE FURNACE (BILLET)</td>
<td>NIL</td>
<td>2289.81</td>
<td>MT/A</td>
</tr>
<tr>
<td>SCALE FROM BAR MILL</td>
<td>NIL</td>
<td>3212.22</td>
<td>MT/A</td>
</tr>
</tbody>
</table>

### 2) From Pollution Control Facilities

<table>
<thead>
<tr>
<th>Non Hazardous Waste Type</th>
<th>Total During Previous Financial year</th>
<th>Total During Current Financial year</th>
<th>UOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLUDGE FROM WWTP</td>
<td>NIL</td>
<td>NIL</td>
<td>MT/A</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Waste Type</th>
<th>Total During Previous Financial year</th>
<th>Total During Current Financial year</th>
<th>UOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>NA</td>
<td>NA</td>
<td>MT/A</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Type of Hazardous Waste Generated</th>
<th>Qty of Hazardous Waste</th>
<th>UOM</th>
<th>Concentration of Hazardous Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1 Used /spent oil</td>
<td>9000</td>
<td>Ltr/A</td>
<td>NA</td>
</tr>
<tr>
<td>5.2 Wastes/residue containing oil</td>
<td>700</td>
<td>Kg/Annum</td>
<td>NA</td>
</tr>
</tbody>
</table>

#### 2) Solid Waste

<table>
<thead>
<tr>
<th>Type of Solid Waste Generated</th>
<th>Qty of Solid Waste</th>
<th>UOM</th>
<th>Concentration of Solid Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCALE FROM BILLET CASTER</td>
<td>2289.81</td>
<td>MT/A</td>
<td>This has been recycled at Sinter plant for Sinter Making</td>
</tr>
<tr>
<td>SCALE FROM BARMILL</td>
<td>3212.22</td>
<td>MT/A</td>
<td>This has been recycled at Sinter plant for Sinter Making</td>
</tr>
</tbody>
</table>

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

<table>
<thead>
<tr>
<th>Description</th>
<th>Reduction in Water Consumption (M3/day)</th>
<th>Reduction in Fuel &amp; Solvent Consumption (KL/day)</th>
<th>Reduction in Raw Material (Kg)</th>
<th>Reduction in Power Consumption (KWH)</th>
<th>Capital Investment (in Lacs)</th>
<th>Reduction in Maintenance (in Lacs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>102700</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

<table>
<thead>
<tr>
<th>Detail of measures for Environmental Protection</th>
<th>Environmental Protection Measures</th>
<th>Capital Investment (Lacs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

[B] Investment Proposed for next Year

<table>
<thead>
<tr>
<th>Detail of measures for Environmental Protection</th>
<th>Environmental Protection Measures</th>
<th>Capital Investment (Lacs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

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**