

JUSL/JRD/ENV/2024-25/12

Date: 24.09.2024

To
The Member Secretary,
State Pollution Control Board, Odisha
A/118, Nilakantha Nagar, Unit VIII
Bhubaneswar – 750012

Sub: Submission of annual Environmental Statement for the financial year 2023-24.

Dear Sir,

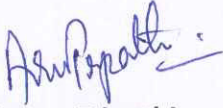
This is in reference to the above mentioned subject.

Please find enclosed herewith the "Annual Environmental Statement (Form-V)" dully filled in the prescribed format for the financial year 2023-24.

This is for your kind perusal please.

Thanking You,

Yours faithfully,
For Jindal United Steel Limited



Arun Kumar Tripathi
Vice President – HSM

Encl: As Above

CC: The Regional Officer, State Pollution Control Board, KNIC, Jajpur Road



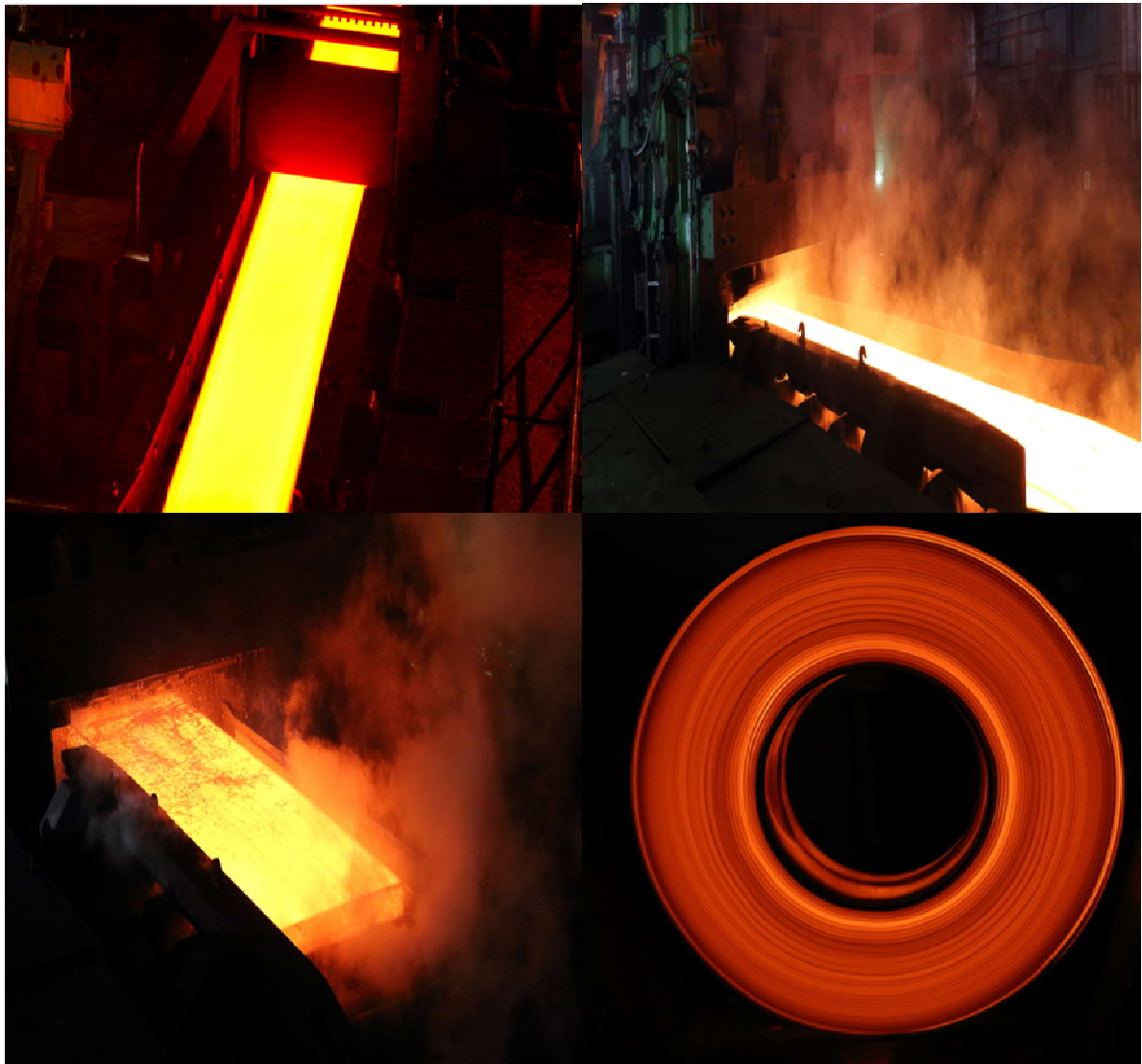
Jindal United Steel Limited

CIN : U28113HR2014PLC053875

Jajpur Office: Kalinga Nagar Industrial Complex, Duburi, Dist. Jajpur - 755 026 (Odisha), India

Registered Office: O.P. Jindal Marg, Hisar - 125005 (Haryana), India





ENVIRONMENT STATEMENT

FINANCIAL YEAR 2023-24



JINDAL UNITED STEEL LIMITED

Kalinganagar Industrial Complex, Duburi, Dist. Jajpur - 755026, Orissa, India

Tel: +91 06726 266260

Fax: +91 06726 266006

E-mail: Info@jusl.in

FORM -V

Form-V

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING ON 31ST MARCH, 2024

Part-A

| | | |
|---|---|--|
| Name and address of the owner/ occupier of the industry, operation or process | : | Shri Arun Kumar Tripathi Vice President Jindal United Steel Limited Jajpur-755026, Orissa |
| Industry Category | : | Red |
| Primary/(STC code) | : | Large Industry |
| Secondary (STC code) | : | Metal and Mining |
| Production Capacity | : | Hot Strip Mill 3.2 MTPA |
| Year of Establishment | : | 2007 |
| Date of Last Environmental /Audit Report submitted | : | 28.09.2023 |

Part-B

WATER AND RAW MATERIAL CONSUMPTION

| Water consumption (m ³ /Day) | 2022-23 | 2023-24 |
|--|-------------------------------|---------|
| Process* | 367 | 364 |
| Cooling** | 1101 | 1091 |
| Domestic | Requirement met from M/s. JSL | 103 |
| Total | 1468 | 1558 |
| * Includes fresh water for water make up, Service water etc. | | |
| ** Includes fresh water for cooling tower make up | | |

Water consumption per Ton of Product:

| Name of products | Water consumption per unit of products (m ³ /MT) |
|-----------------------|---|
| Hot Rolled Black Coil | 0.30 m ³ /MT |

PART-C

POLLUTION DISCHARGED TO ENVIRONMENT/ UNIT OF OUTPUT **(PARAMETERS AS SPECIFIED IN CONSENT ISSUED)**

Raw Material Consumption:

| Name of raw materials | Name of Products | Consumption of raw material per unit of Output (KG/ MT or (MWH) | |
|-----------------------|------------------|---|---|
| | | During the current Financial Year (2022-23) | During the current Financial Year (2023-24) |
| SS Slab | Black coils | 988 Kg/MT | 988.08 Kg/MT |

A. Water Pollutants

The effluent generated is being treated in the Effluent Treatment Plant and the treated water is being used in the process. Waste water is not allowed to discharge outside the plant complying Zero-Discharge Concept.

B. Air Pollutants

B.1 Pollutants from Stack:

| SI No. | Stack details | Pollutants discharged | Quantity of Pollutants discharged (mass/day) (Ton/day) 2023-24 | Concentration of Pollutants discharged (mass/volume) (mg /Nm ³) 2023-24 | Percentage of variation from prescribed standard |
|--------|---------------------------|-----------------------|--|---|--|
| 1 | HSM Reheating Furnace # 1 | PM | 0.089 | 20.49 | (-) 79.55 % |
| 2 | HSM Reheating Furnace # 2 | PM | 0.068 | 16.92 | (-) 83.08 % |
| 3 | HSM - PFS SBLR - 1 | PM | 0.004 | 6.94 | (-) 93.07 % |
| 4 | HSM - HPL SBLR Stack | PM | 0.005 | 8.77 | (-) 91.23 % |

B.2 Discharge of water pollutant: Zero Discharge

Part-D

HAZARDOUS WASTES

(As specified under Hazardous & Other Wastes (Management and Transboundary Movement)
Rules, 2016)

| Hazardous wastes | | Generation Quantity | |
|------------------|--|---|--|
| | | During the Previous financial year 2022-23 | During the current financial year 2023-24 |
| From Process | Used / Spent Oil | 17.15 KL | 9.96 KL |
| | Waste / Residue containing Oil | 9.14 KL | Nil |
| | Oil Soaked Cotton Jute | 0.05 | Nil |
| | HPL ETP Sludge (CRM) *Inclusive of Moisture content | 6078 MT | 6650 MT |
| | Insulation Material | 1 T | 21.77 MT |

Part-E

SOLID WASTES

| Solid wastes | | Quantity (in MT) | |
|--------------------------------------|---------------------------------|--------------------------------------|--|
| | | During the financial year 2022-23 | During the current financial year 2023-24 |
| From process | Scale | 5429 | 4410 |
| From Pollution control facilities | Bag Filter dust of shot blaster | 566 | 696 |

Part-F

Characteristics of Hazardous as well as solid wastes and their disposal practice.

A) Hazardous Wastes

Hazardous Wastes Characteristics and Disposal practice:

| Sl. No. | Hazardous Wastes | Characteristics | Quantity (2023-24) | Mode of Disposal |
|---------|--|-----------------|--------------------|--|
| 1. | Used / Spent Oil | Liquid | 9.96 KL | Sold to Authorised recycler |
| 2. | Waste of Residue containing Oil | Liquid | Nil | Will be Sold to Authorised recycler |
| 3. | Oil Soaked Cotton Jute | Solid | Nil | Will be disposed at CHWTSDF of M/s. Re Sustainability Limited, Sukinda. |
| 4. | HPL ETP Sludge (CRM) *Inclusive of Moisture content | Solid | 6650 MT | Disposed at CHWTSDF of M/s. Re Sustainability Limited, Sukinda through M/s Jindal Stainless Limited. |
| 5 | Insulation Material | Solid | 21.77 MT | Disposed at CHWTSDF of M/s. Re Sustainability Limited, Sukinda. |

B) Solid Wastes**Solid Wastes Characteristics and Disposal practice:**

| Solid Wastes | Characteristics (Chemical Analysis) | Mode of Disposal |
|--------------|---|--|
| Scale | Mercury as Hg – 0.007mg/l; Arsenic as As – 0.011mg/l; Selenium as Se – 0.023mg/l; Antimony as Sb – 0.33mg/l; Total Chromium as Cr – 0.069mg/l; Hexavalent Chromium as Cr ⁺⁶ – 0.009mg/l; Phenolic Compound – ND; Cyanide (As CN ⁻) – 0.002mg/l | Entire quantity is being reused in Ferro Alloy making of M/s Jindal Stainless Limited. |

Part-G**Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.**

1. New bag filter has been installed at shot blaster of PFS for control of stack emission (PM) level below 100 mg/Nm³ from the stack connected to Shot Blaster of PFS # 2.
2. Additional 14 nos. of High Rated Pressure Filter have been installed at WTP of HSM. The plant is maintaining zero effluent discharge from the entire plant. The effluent generated from process is being treated through ETP and the treated water is being reused in process. No process water is being discharged outside.

Part-H**Additional measures/Investment proposal for environmental protection including abatement of pollution****a) Additional Measures**

1. Online CEMS has been installed at stack connected to Reheating Furnace # 2 for monitoring of PM, SO₂ & NO_x and connected to SPCB/CPCB server.
2. In order to maintain neat and clean environment inside the plant premises, housekeeping is being on regular basis. 5-S system has been implemented across the full plant.

| Cost estimation of pollution control in (Rs. Crores) | | |
|--|--------------------------------------|-------------|
| Description | Expenditure in Crores during 2023-24 | |
| | Capital | Operational |
| Air Pollution Control | 0.035 | 4.27 |
| Water Pollution Control | 3.66 | 4.05 |
| Hazardous Waste Management | - | 0.25 |
| Greenbelt development | 0.16 | 0.15 |
| Total | 3.85 | 8.72 |

4. Plantation :

- During the FY 2023-24, 253 nos. of tress have been planted inside plant premises.

PART -I

Miscellaneous

Any other particular for improving quality of environment

1. IMS Certification (New Standards) :

The unit has obtained its recertification for Integrated Management System that includes ISO 14001:2015 (Environment Management System), ISO 9001:2015 (Quality Management System) and ISO 45001:2018 Occupational health & safety Management System).
