



JUSL/JRD/ENV/2023-24/16

Date: 28.09.2023

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

Sub: Submission of Environment Statement for the year 2022-23.

Dear Sir,

With reference to the above subject, we are herewith submitting the Environment Statement Report dully filled in FORM-V for the year 2022-23 (Copy enclosed).

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

Received
29/9/23



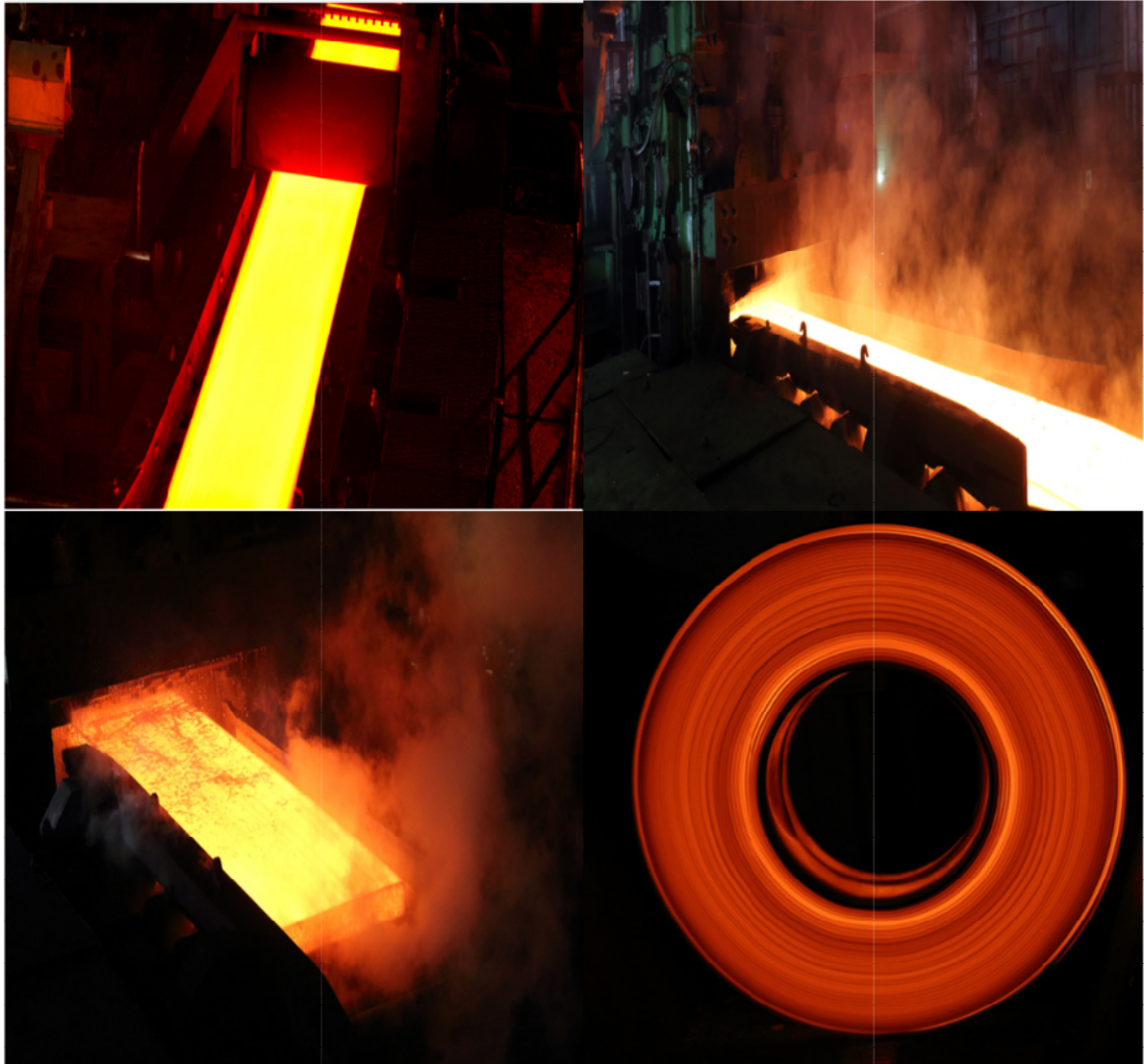
Jindal United Steel Limited

CIN: U28113HR2014PLC053875

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

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ENVIRONMENT STATEMENT REPORT

FOR THE FINANCIAL YEAR 2022-23

Submitted to SPCB under Rule 14 of The Environment (Protection) Rules 1986



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

INTRODUCTION

Jindal United Steel Limited is a company incorporated on 1st December, 2014 under the Companies Act, 2013 and has its registered office at O.P. Jindal Marg, Hisar 125005, Haryana. It proposes to engage in the business of manufacturing, processing, refining, smelting, importing, exporting, marketing and distribution of all kinds and forms of iron and steel including tools and alloy steels, stainless and all other special steels. It has also acquired inter alia the HSM Plant from Jindal Stainless Limited pursuant to the Composite Scheme of Arrangement among Jindal Stainless Limited, Jindal Stainless (Hisar) Limited, Jindal United Steel Limited and Jindal Coke Limited and their respective shareholders and creditors sanctioned by the Hon'ble High Court of Punjab and Haryana at Chandigarh vide its Order dated 21st September, 2015 (as modified on 12th October, 2015 by the High Court).

This has been the driving philosophy of the company from its one unit presence in the early 70's to its present multi- location presence across the globe. An ISO: 14001 compliant, JUSL product range includes: Hot Rolled Coils and Sheets.

JUSL set up its plant with most modern, technology efficient and eco-friendly integrated Stainless Steel plant at Kalinga Nagar, Dist Jajpur Road, Orissa in order to meet the rising demand for wider products, Jindal United Steel (JUSL) at Jajpur, Odisha. This plant is capable of producing 1.6 MTPA of Hot Rolled Coils and Sheets and 0.3 MTPA Cold Rolling Mill. Company's Jajpur plant is one of its kinds and envisages complete integration from mining to cold rolling along with Captive Power Plant. The plant has the best chosen and advanced state of the art technologies from world's reputed technology suppliers like Siemens VAI for Hot Rolling.

The site of the stainless steel plant is located in Jajpur district of Orissa. The site is covered under Survey of India Toposheet No. 73 L/1 bounded between 86°02'02" to 86°03'23" E longitude and 20°56'25" to 20°57'34" N latitude. The plant area is bounded by East Coast Railway's line connecting Jakhapura and Daitari station on the east and the Jajpur-Talcher State Highway on the north. The nearest railway station is Jakhapura, on the Howrah – Kharagpur – Bhubaneswar -Vishakhapatnam line, which is about 10 km towards SE. The expressway (NH-215) connecting Daitari mines to Paradip port is about 8 km W from the site. Duburi is at a distance 7 km from the site and district head quarter Jajpur is at a distance 35 km from the site. The nearest National Highway is NH-6, which is about 20 km E of the plant at its nearest point. The nearest civilian airport is Bhubaneswar, which is more than 110 km away. The river Brahmani flows from west to east on the southern side of the plant site.

Jindal United Steel Limited (JUSL) is an ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Integrated Management system (IMS) certified company. The Company goes beyond mere compliance legislation to create a healthy environment both within and outside plants. It has adopted state of art technologies in Stainless Steel production at site with best available facilities on control of Pollution measures and has set-up Centre for Environment Excellence – NABL accredited well equipped environmental laboratory for monitoring of environmental parameters. JUSL has given the prior focus on the environment protection as well as environmental improvement scheme.

FACILITIES INSTALLED:

JUSL has installed the following facilities at Kalinga Nagar Industrial Complex, Jajpur Road, Odisha.

- Hot Strip Mill & Plate Finishing Shop: 1.6 MTPA
- 0.3 MTPA Cold Rolling Mill
- 0.3 MTPA Hot Pickling Line

The Plant has obtained Consent to Operate (CTO) from SPCB, Odisha valid up to 31st March, 2025. Further, JUSL has obtained authorization under Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016, valid up to 31.03.2025.

FORM -V

Form-V

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING ON 31ST MARCH, 2022

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 Primary/(STC code) : Metal and Mining

Secondary (STC code) : Large Industry

Production Capacity : During the FY 2022-23
Hot Strip Mill 1.6 MTPA
Cold Rolling Mill 0.3 MTPA
Hot Pickling Line 0.3 MTPA

Year of Establishment : 2007

Date of Last Environmental /Audit Report submitted : 28.09.2022

Part-B

WATER AND RAW MATERIAL CONSUMPTION

Water consumption (m ³ /Day)	2021-22	2022-23
Process*	351	367
Cooling**	1054	1101
Domestic***	Requirement met from M/s. JSL	
Total	1405	1468
* Includes fresh water for water make up, Service water etc.		
** Includes fresh water for cooling tower make up		
*** Requirement met from M/s. JSL.		

Water consumption per Ton of Product:

Name of products	Water consumption per unit of products (m ³ /MT)
HSM	0.31 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 (2021-22)	During the current Financial Year (2022-23)
SS Slab From SMS	Black coils	1015 Kg/MT	988 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) 2022-23	Concentration of Pollutants discharged (mass/volume) (mg /Nm ³) 2022-23	Percentage of variation from prescribed standard with reasons
1	HSM Reheating Furnace	PM (mg/Nm ³)	0.09	20.17	Complied. All the parameters are observed within the stipulated limits.

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		Quantity	Quantity
		During the Previous financial year 2022-23	During the current financial year 2022-23
From Process	Used / Spent Oil	Nil	17.15 KL
	Waste of Residue containing Oil	Nil	9.14 KL
	Oil Soaked Cotton Jute	Nil	0.05
	HPL ETP Sludge (CRM) *Inclusive of Moisture content	1109.46 MT	6078 MT
	Insulation Material	Nil	1 T

NOTE :

**6078 MT (Inclusive of Moisture content.) of CRM Sludge is being disposed at CHWTSDF of M/s. Re Sustainability Limited, Sukinda*

Part-E

SOLID WASTES

Solid wastes		Quantity (in MT)	
		During the financial year 2021-22	During the current financial year 2022-23
From process	Mill Scale from Scale Pit (HSM)	7794	5429

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 (2022-23)	Mode of Disposal
1.	Used / Spent Oil	Liquid	17.15 KL	Sold to Authorised recycler
2.	Waste of Residue containing Oil	Liquid	9.14 KL	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	6078 MT	Disposed at CHWTSDF of M/s. Re Sustainability Limited, Sukinda.
5	Insulation Material	Solid	1 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
Mill Scale from Scale pit (HSM)	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. The plant is equipped with various state-of-the-art Air Pollution Control devices such as Bag Houses, scrubbers etc. designed to control the emission (PM) level below 100 mg/Nm³ from the stacks installed at our plant.



2. 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. Treated STP water is being used for green belt development. No process water is being discharged outside.



3. A new Continuous Ambient Air Quality Monitoring System has been installed to monitor parameters like PM₁₀, PM_{2.5}, SO₂, NO_x & CO and real time data is being transmitted to SPCB/CPCB servers uninterrupted basis.



Part-H

Additional measures/Investment proposal for environmental protection including abatement of pollution

a) Additional Measures

1. A new dedicated road sweeping machine (Dulevo-6000) has been engaged for cleaning of internal roads.
2. PTZ camera have been installed and connected to SPCB server monitoring of fugitive and stack emission from the processes.
3. An ETP of capacity 350 m³/day has been installed for treatment of water generated from HPL.
4. EQMS has been installed at ETP and online data is being transmitted to SPCB/CPCB server.
5. 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.

4. Plantation : (Undivided JSL)

- We have planted totally 3,46,154 nos. of trees inside the plant premises over an area of 156.61 Ha (35.8 % of the total area) till 31st March 2023.
- Our plant has 100% complied with the 33% green belt development criteria given by CPCB.
- During the FY 2022-23, 11383 nos. of trees have been planted inside plant premises for gap filling.

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).