

JSL/JRD/ENV/2025-26/21

Date: 18.09.2025

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 2024-25.

Dear Sir,

Please find enclosed herewith the "Annual Environmental Statement (Form-V)" dully filled in the prescribed format for the financial year 2024-25.

This is for your kind perusal please.

Thanking You,

Yours faithfully,
For Jindal Stainless Limited

Maitreyee Deb
Maitreyee Deb
Head-Environment

Encl: As Above

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

Jindal Stainless Limited



Jajpur Unit : Kalinga Nagar Industrial Complex, Duburi, Distt. Jajpur - 755 026 (Odisha) India. C.O. : L26922HR1980PLC010901
Corporate Office : Jindal Centre, 12, Bhikaiji Cama Place, New Delhi - 110 065, India, Registered Office : O.P. Jindal Marg, Hisar - 125 005. (Haryana) India.
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ENVIRONMENT STATEMENT

FINANCIAL YEAR 2024-25



JINDAL STAINLESS LIMITED

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

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FORM -V

Form-V

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING ON 31ST MARCH, 2025

Part-A

Name and address of the owner/ occupier of the industry, operation or process	:	Shri Jagmohan Sood Director & COO Deepak Agrawal Unit Head Jindal Stainless Limited Jajpur-755026, Orissa
Industry Category Primary/(STC code)	:	Red
Primary (STC code)	:	Large Industry
Secondary (STC code)	:	Metal & Mining
Production Capacity	:	During the FY 2024-25 : Crude Stainless Steel: 2.2 MTPA : Captive Power: 2 x 125 MW, 13 MW
Year of Establishment	:	2007
Date of Last Environmental /Audit Report submitted	:	26.09.2024

Part-B

WATER AND RAW MATERIAL CONSUMPTION

Water consumption (m ³ /Day)	2023-24	2024-25
Process*	4784	5434
Cooling**	14352	16301
Domestic***	876	530
Total	20012	22265
* Includes fresh water for water make up, DM water, Service water etc.		
** Includes fresh water for cooling tower make up		
*** Includes water for drinking, toilets, washing & canteen supply in plant.		

Water consumption per Ton of Product:

Name of products	Water consumption per unit of products 2024-25
CPP – Electricity	2.70 m ³ /MW
SMS -	0.92 m ³ /tss

Raw Material Consumption:

Name of raw materials	Name of Products	Consumption of raw material per unit of Output (KG/ MT or (MWH)	
		During the Previous Financial Year (2023-24)	During the current Financial Year (2024-25)
Steam Coal	Power	778 Kg/MW	786 Kg/MW
MS Scrap	Crude Stainless Steel	417 Kg/MT	366 Kg/MT
SS Scrap		367 Kg/MT	274 Kg/MT
Ferro Alloy		240 Kg/MT	230 Kg/MT
Ferro Nickel		30 Kg/MT	23 Kg/MT
Si Manganese		38 Kg/MT	43 Kg/MT
Fe Manganese		21 Kg/MT	24 Kg/MT
Chrome Ore		474 Kg/MT	376 Kg/MT

PART-C

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

A. Water Pollutants

The entire effluent from each unit is being treated and recycled within plant premises in different activities being performed and wastewater is not allowed to discharge outside the plant.

B. Air Pollutants

B.1 Pollutants from Stack:

SI No.	Stack details	Pollutants	Quantity of Pollutants discharged (mass/day) (Ton/day) 2024-25	Concentration of Pollutants discharged (mass/volume) (mg /Nm ³) 2024-25	Percentage of variation from prescribed standard
1	CPP-1	PM	0.53	38.66	(-) 22.67 %
2	CPP-2		0.49	37.90	(-) 24.20 %
3	13 MW		0.04	31.60	(-) 36.80 %
4	SMS –EAF		0.49	22.02	(-) 77.98 %
5	SMS- AOD		0.97	41.19	(-) 58.81 %
6	SAF # 3		0.20	34.05	(-) 65.95 %
7	SAF # 4&5		0.23	44.55	(-) 55.45 %
8	CRM-Shot Blaster		0.07	54.78	(-) 45.22 %
9	2 x60 MVA – Tapping Fume		0.02	10.57	(-) 89.43 %

10	SAF # 4 & 5 (Process-New)		0.05	16.19	(-) 83.81 %
11	SAF # 4 & 5(Tapping Fume)		0.02	10.07	(-) 89.93 %
12	Pellet Plant		0.23	25.37	(-) 15.44 %
13	Furnace feeding from storage bin (DES-1)		5.76	15.02	(-) 84.98 %
14	Briquetting & Day bin (DES - 2)		6.21	16.27	(-) 83.73 %
15	Briquette RMHS Screening (DES - 3)		6.06	34.83	(-) 65.17 %
16	Day bin		5.77	15.18	(-) 84.82 %
17	Dryer # 1 Briquette Plant -1		0.02	30.56	(-) 69.44 %
18	Dryer # 2 Briquette Plant -1		0.04	26.98	(-) 73.02 %
19	Caster - 1		0.01	17.97	(-) 82.03 %
20	Grinder - 1		0.03	25.63	(-) 74.37 %
21	Caster - 2		0.02	14.80	(-) 50.67 %
22	Shot Blaster # 2 - CRM		0.02	15.33	(-) 48.90 %
23	Metal Recovery - Lancing		0.02	16.81	(-) 83.19 %

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 2023-24	During the current financial year 2024-25
From Process	Used Oil	75.69 MT	183.74 MT
	Waste / Residue containing Oil	44.80 MT	58.55 MT
	Used Grease	-	3.11 MT
	Oil soaked jute / cotton	1.87 MT	4.34 MT
	CRM ETP Sludge (CRM) *Inclusive of Moisture content.	47652.21MT	54369.28 MT
From Pollution Control facilities	Flue gas cleaning residue	27011.28 MT	20293.31 MT

NOTE:

***42851.98 MT** (Inclusive of Moisture content.) of CRM Sludge have been disposed at CHWTSDf of M/s. Re Sustainability Limited, Sukinda.

Part-E

SOLID WASTES

Solid wastes		Generation Quantity (in MT)	
		During the previous financial year 2023-24	During the current financial year 2024-25
From process	Fe-Cr slag	235907 MT	255781 MT
	SMS Slag	437719 MT	518665 MT
	Mill Scale (CRM)	4302.66 MT	3173 MT
	Bottom Ash	67639.42 MT	76124 MT
From Pollution Control facilities	Bag Filter & Grinding Dust from SMS	60677.81 MT	75637 MT
	Fly Ash	669739.54 MT	613471 MT

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	Mode of Disposal
1.	Used Oil	Liquid	183.74 MT	Sold to Authorised recycler
2.	Used Grease	Semi Solid	3.11 MT	Sold to Authorised recycler
3.	Waste Oil	Liquid	58.55 MT	Sold to Authorised recycler
4.	CRM Sludge	Semi solid	54369.28 MT	Recycled in Briquette Plant rest has been disposed at CHWTSDF of M/s. Re Sustainability Limited, Sukinda.
5.	Flue gas cleaning residue	Solid	20279.20 MT	Recycled in the Briquette Plant for further reutilization in FAP.
6	Oil soaked cotton jute	Solid	4.34 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
Fe-Cr slag	$Cr_2O_3\%:12.1$, $SiO_2\%:28.07$, $Al_2O_3\%:22.44$, $MgO\%:26.39$, $CaO\%:5.85$, $FeO\%:3.49$	Recovered metal reused in process, rest has been utilized for low lying area filling.
SMS EAF Slag	$SiO_2\%:26.69$, $Fe_2O_3\%:1.35$, $CaO\%:39.69$, $MgO\%:8.37$, $Al_2O_3\%:12.00$, $Cr_2O_3\%:7.88$	Recovered metal reused in process, rest has been utilized for road making, low lying area filling.
SMS AOD Slag	$SiO_2\%:29.88$, $Fe_2O_3\%:0.79$, $CaO\%:48.41$, $MgO\%:11.63$, $Al_2O_3\%:2.72$, $Cr_2O_3\%:1.16$	
Bottom Ash	$SiO_2\%:62.90$, $Fe_2O_3\%:7.58$, $CaO\%:2.02$, $MgO\%:2.74$, $Al_2O_3\%:22.52$	Entire quantity is being disposed at road making of NHAI and mine void filling.
Fly Ash	$SiO_2\%:61.80$, $Fe_2O_3\%:5.21$, $CaO\%:1.79$, $MgO\%:2.26$, $Al_2O_3\%:26.70$	100 % utilization towards Bricks, Asbestos manufacturing units along with Cement Plant.

Part-G

Impact of the pollution abatement 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, Electrostatic precipitators etc. designed to control the emission (PM) level below the prescribed standard.
2. Continuous effort are being made to control air pollution by way of installing effective air pollution control devices at all process units to bring down the air pollution concentration well within the permissible limit. Fugitive emissions are being arrested by way of putting up covered belt conveyors, water sprinklers and mostly concreted /asphalted roads for vehicular movement inside the plant premises.
3. Continuous Emission monitoring system for monitoring of PM has been installed at Shot Blaster of CRM, Tapping Fume of SAF 4&5 and Pellet Plant and the online data is being transmitted to SPCB/CPCB server.
4. Dedicated surveillance PTZ camera has been installed to monitor the stack and fugitive emission Pellet Plant and connected to SPCB server.
5. Dedicated mechanized road sweeping machine has been procured for cleaning of roads of Steel Melting Shop.
6. Additional SRTS of capacity 250m³/hr has been installed for treatment of surface runoff generated during monsoon.
7. Complete Dry Fog System has been installed at AOD de-bricking area to control fugitive emission. Two nos. of Fog Cannons have been installed at Briquette raw material yard for control
8. Additional three nos. of double beam fog cannon have been installed at slag pit to control fugitive emission.

Part-H

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

a) Additional Measures

1. JSL aims to achieve Net Zero Target by 2050 and reduce 50% of our emissions by 2035 through Energy Substitution, Energy Conservation & Emission Reduction, Technical Sequestration, Ecological Sequestration, Market Trading Mechanism and Green Financial Products.
2. Project has been taken up for Zero Liquid Discharge with provision of RO system for reuse of treated water in process.

3. 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 2024-25	
	Capital	Operational
Air Pollution Control	4.06	71.00
Water Pollution Control	56.38	3.91
Hazardous Waste Management	0.19	11.22
Greenbelt development	1.18	2.71
Total	61.80	88.84

4. **Plantation:**

- We have planted total 2,81,804 nos. of trees inside the plant premises over an area of 127.07 Ha till 31st March 2025.
- During the FY 2024-25, 23302 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), ISO 45001:2018 (Occupational health & safety Management System) and ISO 50001:2011 (Energy Management System).

2. Received CII-ITC Sustainability Award for Environment Management.
3. Prepared medicinal garden to enhance biodiversity in the area.