



**The Member Secretary,  
Odisha State Pollution Control Board,  
A/118, Nilakanthanagar, Unit-VIII,  
Bhubaneswar – 751 012, Odisha.**

*TSK/Env/C-05/ 54 /2024*

*Sept 26, 2024.*

Dear Sir,

**Reg: Environmental Statement for the year 2023-24 for Residential Complex of Tata Steel Plant at Kalinganagar Industrial Complex Located at Khurunti & Gadapur, Dist- Jajpur, Odisha.**

We are enclosing the “**Environmental Statement**” duly filled in **Form V**, for the year 2023-2024 for Residential Complex of Tata Steel Plant at Kalinganagar Industrial Complex located at Khurunti & Gadapur, Dist- Jajpur, Odisha for your kind consideration.

We trust that you will find the above in order.

Thanking you.

Yours faithfully,

**For Tata Steel Limited**

A handwritten signature in blue ink, appearing to read 'R. Agrawal'.

**Raju Agrawal**

Head, Environment  
**Tata Steel Kalinganagar**

*Encl : a/a.*

**Copy to: Regional Officer, OSPCB, Kalinganagar**

**ENVIRONMENTAL STATEMENT  
FOR THE YEAR 2023-24**

**For**

**RESIDENTIAL COMPLEX FOR TATA STEEL PLANT AT KALINGANAGAR  
INDUSTRIAL COMPLEX**



**ENVIRONMENTAL DEPARTMENT  
TATA STEEL KALINGANAGAR  
Kalinga Nagar Industrial Complex  
Duburi- 755026, Dist.- Jajpur, Odisha**

**TATA STEEL KALINGANAGAR**

Jajpur 755 026 India

Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001

Tel 91 22 66658282 Fax 91 22 66657724

Corporate Identity Number L27100MH1907PLC000260 Website [www.tatasteel.com](http://www.tatasteel.com)

**FORM-V**

**ENVIRONMENTAL STATEMENT FORM-V  
(See rule 14)**

*Environmental Statement for the financial year 2023-24 ending with 31<sup>st</sup> March*

For

**Residential Complex for Tata Steel Plant at Kalinganagar Industrial Located at  
Khurunti & Gadapur, Dist- Jajpur**

**PART-A**

i)	Name and address of the owner/ occupier of the industry, operation or process	:	Rajiv Kumar VP, Operations Tata Steel Limited, Block-2, General Admin office Kalinga Nagar Industrial Complex Duburi-755026 Odisha
ii)	Industry Category Primary/(STC code) Secondary (STC code)	:	Residential Complex (Built Up Area- 147380 Square Meter)
iii)	Production Capacity	:	NA
iv)	Year of Establishment	:	2018 (April)
v)	Date of Last Environmental /Audit Report submitted	:	20/09/2023

**PART-B**

**WATER AND RAW MATERIAL CONSUMPTION**

- i) **Total Water consumed (m<sup>3</sup>/day)**
- |          |   |                                       |
|----------|---|---------------------------------------|
| Process  | : | Nil                                   |
| Cooling  | : | 124 (Construction & Spraying on road) |
| Domestic | : | 240                                   |

Name of the product	Process water consumption per unit of products	
	During the previous Financial Year 2022-2023	During the Current Financial Year 2023-2024
The development is a Residential Complex		
For Domestic Purpose	90205 cum	192749 cum
For Construction Purpose	65388 cum	93624 cum
It is envisaged that after full occupancy of the residential complex, water consumption is to be 800 KLD.		

<b>ii) Raw material consumption:</b>			
<b>Name of Raw Material#</b>		<b>Consumption of raw material per unit of output</b>	
		<b>During the previous Financial Year 2022-2023</b>	<b>During the Current Financial Year 2023-2024</b>
Construction Phase/ Operational Phase	Ready Mix Concrete	4693 Cum	2889.50 Cum
	Fly Ash Bricks	520286 Nos.	1,91,116 Nos
	Cement	2566 MT	2050.75 MT
	Sand	4064 CUM	2605.33 Cum
	Diesel	75200 Ltr	53610 Ltr
	Reinforcement	627 MT	546.60 MT

# - It is a Residential complex without any processing of raw material and there is no production. Ready-mix material is used as per the requirement.

### **PART-C**

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

<b>Sl No.</b>	<b>Pollutants</b>	<b>Quantity of Pollutants discharged (mass/day)</b>		<b>Concentration of Pollutants discharged (mass/volume)</b>		<b>Percentage of variation from prescribed standard with reasons</b>	
		<b>Kg/day</b>	<b>mg/lit</b>	<b>mg/day</b>	<b>mg/Nm<sup>3</sup></b>		
a)	WATER	<b>FY: 2022-23</b>	<b>FY: 2023-24</b>	<b>FY: 2022-23</b>	<b>FY: 2023-24</b>	–	
		<b>No Discharge.</b>					–
							–
b)	AIR	<b>FY: 2022-23</b>	<b>FY: 2023-24</b>	<b>FY: 2022-23</b>	<b>FY: 2023-24</b>	–	
		<b>It is a residential complex. There is no stack/point source emission.</b>					–
							–

**PART-D**  
**HAZARDOUS WASTES**

**(AS SPECIFIED UNDER HAZARDOUS WASTES (MANAGEMENT, HANDLING AND TRANS BOUNDARY MOVEMENT RULES, 2008)**

Sl. No as per Schedule-I	Hazardous Wastes	Total Quantity (Kg)	
		During the previous Financial Year 2022-2023	During the Current Financial Year 2023-2024
Construction Phase	Used Oil	Nil	Nil
Operational Phase	Latest occupancy certificate obtained on 11.07.2022		

**PART-E**  
**SOLID WASTE**

Solid waste		Total Quantity Generated	
		During the previous Financial Year 2022-2023	During the Current Financial Year 2023-2024
Construction Phase	Construction debris	The construction debris and excavated soil generated is reused for backfilling	The construction debris and excavated soil generated is reused for backfilling
	Excavated soil		
Operational Phase	2760 Kgs of Compost generated and disposed through Organic waste converter from food waste of 17200 Kgs		

**PART-F**

*Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both categories of these wastes*

Hazardous/ Solid Wastes		Characteristics	Method of disposal
Construction Phase	Construction Debris	Solid	Used for Levelling the Site and internal road formation
	Used Oil (Hazardous Waste) from DG set	Liquid, Oily	Shall be sold to authorised recycler
Operation Phase	No Hazardous Waste generated in FY 24. Hazardous wastes shall be disposed in compliance with the requirement of Hazardous Waste Management and Handling Rules, 2016.		

## **PART-G**

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

- The rainwater harvesting structure constructed and is operational with a substantial capacity of 50,000 cubic meters.
- Measures are being taken for preventions, control and mitigation of Air Pollution, Water Pollution, Noise Pollution and Land Pollution including solid waste management.
- Continuous Ambient Air Quality Monitoring Station is in operational at Residential complex to monitor 24x7 Air Quality.
- 1000 KLD STP is in operation. Treated wastewater from STP used in plantation and horticulture activities.
- Solar Panel having capacity 108000 KWh has been installed at roof top of the buildings.
- Energy efficient equipment like CFL and LED lights have been installed to conserve energy.
- Roof rainwater harvesting methods has been adopted. 40 nos recharge pits have been constructed.
- Landscape & garden development is done to enhance aesthetic beauty.
- More than 20% of the area has been developed as green belt. Plantation programme is taken and will continue in FY 24.
- The solid waste generated is properly collected, segregated and disposed on regular frequency. Wet garbage is converted into manure through Organic waste converters (2 Nos each having input capacity of 200 Kg/day).

## **PART-H**

*Additional measures/investment proposal for environmental protection including abatement of pollution.*

- The Residential Complex is duly complying with all Environmental Safeguards / Guidelines imposed in the Environmental Clearance.
- Consent to Operate has been obtained from OSPCB, valid till 31.03.2028.
- Approval for the structural safety of the building as per National Building Code of India, 2005 has been obtained from registered structural engineer/ Architect.
- Fire Safety Certificate is obtained from the Chief Fire officer, Fire prevention wing.

- Occupancy certificate is obtained from Kalinganagar Development Authority. Latest occupancy certificate obtained on 11.07.2022.
- Green Belt – Well maintained green area is being developed inside and outside premises to reduce noise pollution, air pollution and increasing the scenic beauty.
- 1015 Nos. of tree plantation done till FY24.
- Two numbers of Organic Waste Converter Machines are in operation.
- STP (1000 KLD) inside the premises is in operating condition. Treated wastewater from STP used in plantation and horticulture activities.
- Measures are being taken for preventions, control and mitigation of Air Pollution, Water Pollution, Noise Pollution and Land Pollution including solid waste management in compliance with the prescribed statutory norms and standards.

### **PART-I**

#### **MISCELLANEOUS:**

*Any other in respect of environmental protection and abatement of pollution.*

- Glass has been restricted less than 40 % of the total outer wall area.
- Roofs have been constructed as per energy conservation building Code (ECBC) norms. Same shall be followed for the remaining.
- Opaque walls have been made as per Energy Conservation Building Code.
- Consent to Operate (CTO) for Tata steel residential Complex granted by OSPCB vide Letter No. 4649/IND-I-CON-6643 dtd.30.03.2014 and valid till 31.03.2028.

**Some Photographs of Tata Steel Residential Complex**



**Rainwater Harvesting Structure**



**Green Cover view**



**Continuous Ambient Air Quality Monitoring Station**



**Landscaping View**



**(1000 KLD) STP is in Operation**



**Solar Panels installed at roof top of Buildings**