



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

TSK/Env/C-05/ **34** /2023

Sept 20, 2023.

Dear Sir,

Reg: Environmental Statement for the year 2022-23 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 2022-2023 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

Raju Agrawal

Head, Environment
Tata Steel Kalinganagar

Encl : a/a.

Copy to: Regional Officer, OSPCB, Kalinganagar

TATA STEEL KALINGANAGAR

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**ENVIRONMENTAL STATEMENT
FOR THE YEAR 2022-23**

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**

FORM-V

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

Environmental Statement for the financial year 2022-23 ending with 31st 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	:	28/09/2022

PART-B

WATER AND RAW MATERIAL CONSUMPTION

- i) **Total Water consumed (m³/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 2021-2022	During the Current Financial Year 2022-2023
The development is a Residential Complex		
For Domestic Purpose	76084 cum	90205 cum
For Construction Purpose	46482 cum	65388 cum
It is envisaged that after full occupancy of the residential complex, water consumption is to be 800 KLD.		

ii) Raw material consumption:			
Name of Raw Material#		Consumption of raw material per unit of output	
		During the previous Financial Year 2021-2022	During the Current Financial Year 2022-2023
Construction Phase/ Operational Phase	Ready Mix Concrete	5371 Cum	4693 Cum
	Fly Ash Bricks	285818 Nos.	520286 Nos.
	Cement	2854.5 MT	2566 MT
	Sand	3954 CUM	4064 CUM
	Diesel	82496 Ltr.	75200 Ltr
	Reinforcement	542 MT	627 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)

Sl No.	Pollutants	Quantity of Pollutants discharged (mass/day)		Concentration of Pollutants discharged (mass/volume)		Percentage of variation from prescribed standard with reasons	
		Kg/day	mg/lit	mg/Nm³			
a)	WATER	FY: 2021-22	FY: 2022-23	FY: 2021-22	FY: 2022-23	–	
		No Discharge.					–
							–
b)	AIR	FY: 2021-22	FY: 2022-23	FY: 2021-22	FY: 2022-23	–	
		It is a residential complex. There is no stack/point source emission.					–
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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 2021-2022	During the Current Financial Year 2022-2023
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 2021-2022	During the Current Financial Year 2022-2023
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	5085 Kgs of Compost generated and disposed through Organic waste converter from food waste of 24590 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 23. 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.

- 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 has been installed 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 has 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 31.03.2024.
- 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.
- 9610 Nos. of tree plantation done till FY 23.
- 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. 4196/IND-I-CON-6643 dtd.04.04.2018 and valid till 31.03.2023.

Some Photographs of Tata Steel Residential Complex



Green corridors



Aesthetic view



Continuous Ambient Air Quality Monitoring Station



Roof top rain water recharge pits



Organic Waste Converters in operation



(1000 KLD) STP is in Operation