



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

*KPO/Env/C-08/ 27 /2019  
Sep 25, 2019.*

Dear Sir,

**Reg: Environmental Statement for the year 2018-19 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 2018-2019 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 and assuring you of our best attention.

Yours faithfully,

**For Tata Steel Limited**

*LP Hawki  
25/9/19*  
**Head, Environment  
Tata Steel Kalinganagar**

*Encl : a/a.*

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

*Received  
26/9/19*



**TATA STEEL KALINGANAGAR**

Jajpur 755 026 India

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Tel 91 22 66658282 Fax 91 22 66657724

Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com

**ENVIRONMENTAL STATEMENT  
FOR THE YEAR 2018-19**



**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 2018-19 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	:	25/09/2018

**PART-B**

**WATER AND RAW MATERIAL CONSUMPTION**

- i) **Total Water consumed (m<sup>3</sup>/day)**  
Process : Nil  
Cooling : 115 (Construction & Spraying on roads)  
Domestic : Nil

Name of the product		Process water consumption per unit of products	
		During the previous Financial Year 2017-2018	During the Current Financial Year 2018-2019
The development is a Residential Complex			
Construction Phase	For Domestic Purpose	Nil	Nil
	For Construction Purpose	31705 Cum (total)	42111 Cum (total)
Operation Phase	The actual occupancy of our staff could not be done in 18-19 as occupancy certificate was granted on 14.03.2019. 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 <sup>#</sup>		Consumption of raw material per unit of output	
		During the previous Financial Year 2017-2018	During the Current Financial Year 2018-2019
Construction Phase/ Operational Phase	Ready Mix Concrete	29976 Cum	22388 Cum
	Fly Ash Bricks	9,10,000 Nos	621912 Nos.
	Cement	10733 MT	12737 MT
	Sand	19953 Cum	20034 CUM
	Diesel	126715 Ltr.	180600 Ltr.
	Reinforcement	2928 MT	2210 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			
a)	WATER	FY: 2017-18	FY: 2018-19	FY: 2017-18	FY: 2018-19	–
		<b>No Discharge.</b> There is no occupancy in Residential Complex during FY 19				
		Kg/day		mg/Nm <sup>3</sup>		–
b)	AIR	FY: 2017-18	FY: 2018-19	FY: 2017-18	FY: 2018-19	–
		It is a residential complex. There is no stack/point source emission.				
		Kg/day		mg/Nm <sup>3</sup>		–

**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 2017-2018	During the Current Financial Year 2018-2019
Construction Phase	Used Oil	Nil	Nil
Operational Phase	There is no occupancy in Residential Complex during FY 19		

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

Solid waste		Total Quantity Generated	
		During the previous Financial Year 2017-2018	During the Current Financial Year 2018-2019
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			

**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 19. Hazardous wastes like used Oil from the DG Sets, discarded fuel filters and oil filters etc. 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.*

Water sprinkling on roads as pollution control measures to suppress dust generation during transportation, idling of vehicles is reduced to the extent possible and only PUC certified vehicles are used at construction site.

## **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 Establish, Consent to Operate are obtained from OSPCB.
- ) 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 on 14/03/2019.
- ) D.G Sets are equipped with acoustic enclosure & stacks of adequate height to reduce the noise and control the stack emission to abate air pollution.
- ) Energy efficient equipment like CFL and LED lights have been installed to conserve energy.
- ) Green Belt – Well maintained green area is being developed inside and outside premises to reduce noise pollution, air pollution and also increasing the scenic beauty.
- ) In FY 19, 210 Nos. of Plantation and Landscape development of Area 5150 Sq. mtr were done.
- ) Water Management – Drinking water treatment and sewage treatment facility have been constructed and will be commissioned before actual occupancy of residents.

## **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

**Some Photographs of Tata Steel Residential Complex**



View of Building



Infrastructure (Road) development



Landscape Development inside premises



Sewage Treatment Plant of Residential Complex



Colour Coded Bins for Waste Segregation

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