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

TSK/*Env/C-05/* 83 */2020*

Sept 28, 2020.

Dear Sir,

Reg: Environmental Statement for the year 2019-20 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 2019-2020 for Residential Complex of Tata Steel Plant at Kalinganagar Industrial Complex located at Khurunti & Gadapur, Dist- Jajpur, Odisha for your kind consideration.

Due to the prevailing COVID 19 situation, we are submitting the Environmental Statement through e-mail only 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**

Head, Environment
Tata Steel Kalinganagar

Encl : a/a.

Copy to: Regional Officer, OSPCB, KNIC

ENVIRONMENTAL STATEMENT
FOR THE YEAR 2019-20

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 2019-20 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	:	26/09/2019

PART-B

WATER AND RAW MATERIAL CONSUMPTION

i) **Total Water consumed** (m^3/day)

Process : Nil
Cooling : 109 (Construction & Spraying on road
Domestic : 68

Name of the product		**Process water consumption per unit of products**	
		During the previous Financial Year 2018-2019	**During the Current Financial Year 2019-2020**
The development is a Residential Complex			
Construction Phase	For Domestic Purpose	Nil	**Nil**
	For Construction Purpose	42111 Cum (total)	**64812 Cum (total**
Operation Phase	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 2018-2019	**During the Current Financial Year 2019-2020**
Construction Phase/ Operational Phase	Ready Mix Concrete	22388 Cum	**14080.50 Cum**
	Fly Ash Bricks	621912 Nos.	**469718 Nos.**
	Cement	12737 MT	**6182 MT**
	Sand	20034 CUM	**8611.50 CUM**
	Diesel	180600 Ltr.	**114672.50 Ltr.**
	Reinforcement	2210 MT	**2628 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
a)	WATER	**Kg/day**		**mg/lit**		_
		FY: 2018-19	**FY: 2019-20**	**FY: 2018-19**	**FY: 2019-20**	–
		No Discharge.				
b)	AIR	**Kg/day**		**mg/Nm^3**		_
		FY: 2018-19	**FY: 2019-20**	**FY: 2018-19**	**FY: 2019-20**	–
		It is a residential complex. There is no stack/point source emission.				

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 2018-2019	During the Current Financial Year 2019-2020
Construction Phase	Used Oil	Nil	Nil
Operational Phase	Nil (Occupancy started in FY 20)		

PART-E
SOLID WASTE

Solid waste		Total Quantity Generated	
		During the previous Financial Year 2018-2019	During the Current Financial Year 2019-2020
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	Occupancy started in FY 20		

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 20. 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.
- Landscape & garden development is done to enhance aesthetic beauty.
- Plantation programme is taken and will continue in FY 21.

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 and 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.
- Fire Safety Certificate is obtained from the Chief Fire officer, Odisha.
- 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 increasing the scenic beauty.
- In FY 20, 315 Nos. of Plantation and Landscape development of Area 3059 Sq. mtr were done.
- 226 Nos of flats are occupied in FY 20.
- Drinking water treatment and sewage treatment facilities are in operation.
- Two numbers of Organic Waste Converter Machines have been installed.

PART-I

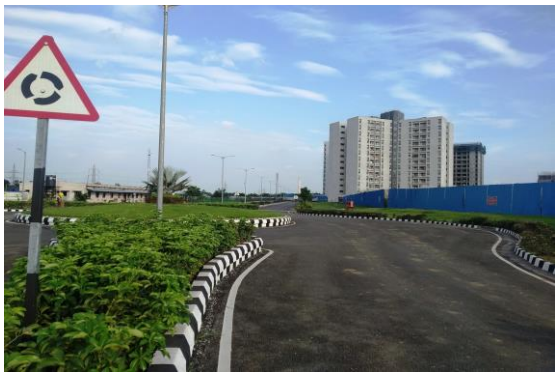
MISCELLANEOUS:

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

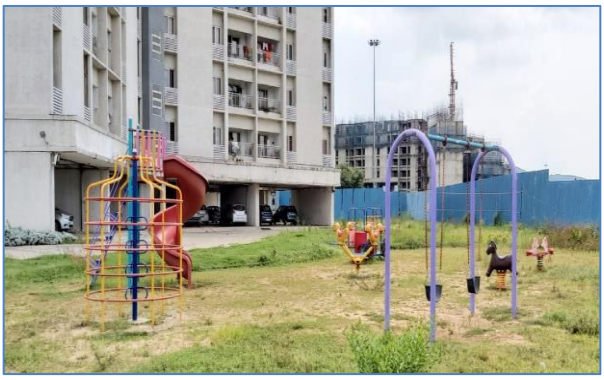
- Glass has been restricted less than 40 % of the total outer wall area.
- Roofs have been constructed as per energy conservation building Code (ECBC) norms. Same shall be followed for the remaining.
- Opaque walls have been made as per Energy Conservation Building Code.
- Consent to Operate (CTO) for 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

Roof top solar panel



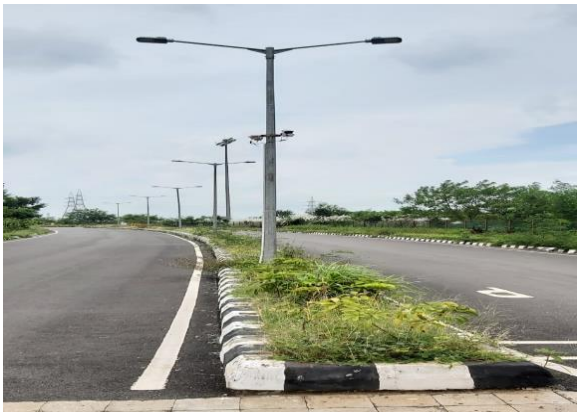
View of building



Children part inside complex

Sewage Treatment Plant in Operation

View of internal roads



Pathway lights along entry and exit roads

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