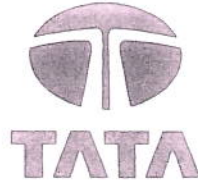


OK



EMD/C-23/2019/19
September 20th, 2019

Shubhanand Mukesh
Head Environment Management

The Member Secretary

Jharkhand State Pollution Control Board
T.A. Division Building, HEC Campus, Dhurwa
RANCHI - 834004

**Subject: Environmental Statement 2018-2019 for Tata Growth Shop
(Adityapur Complex) of Tata Steel Limited at Gamharia,
Jamshedpur**

Dear Sir,

This has reference to the captioned subject. Please find enclosed the
“**Environmental Statement**” for Tata Growth Shop (Adityapur Complex) of
Tata Steel Limited at Gamharia, Jamshedpur for the year 2018-2019 duly
filled in the prescribed format is enclosed for your kind consideration.

Thanking you

Yours faithfully,
For Tata Steel Limited

Shubhanand Mukesh

**Shubhanand Mukesh
Head, Environment Management**



Encl: As Above

Copy to: Regional Officer, Jharkhand State Pollution Control Board,
Adityapur, Jamshedpur - 831013

TATA STEEL LIMITED

Environment Management Jamshedpur 831 001 India
Tel 91 657 2424125 6644859 e-mail shubhanand.mukesh@tatasteel.com
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

**ENVIRONMENTAL STATEMENT
FOR THE YEAR 2018-2019**

**ADITYAPUR COMPLEX
TATA STEEL LIMITED**

**Submitted by:
TATA GROWTH SHOP, TATA STEEL LIMITED
JAMSHEDPUR-831001
JHARKHAND**

Environment Statement for 2018-19

FORM-V

ADITYAPUR COMPLEX TATA STEEL LIMITED, JAMSHEDPUR

Environmental Statement for the financial year ending the 31/03/2019

PART-A

i)	Name and address of the owner / occupier of the industry operation or process	:	Mr T V Narendran Managing Director TATA STEEL LIMITED Tata Growth Shop (Adityapur Complex) Gamharia, Jamshedpur-831001 Jharkhand
ii)	Industry Category	:	Not available
	Primary (SIC Code)	:	Nil
	Secondary (SIC Code)	:	Metallurgical Machinery
iii)	Production Capacity	:	Steel Plant Machinery production at Growth Shop: 40150 MTPA (Tata Growth Shop (TGS) is a multi-disciplinary engineering complex that designs and manufactures heavy engineering and material handling equipment including special purpose Electric Overhead Travelling Cranes.)
iv)	Year of establishment	:	1969
v)	Date of last Environmental Statement submitted	:	September 26 th , 2018 vide letter no. EMD/C-23/373/18

PART-B

WATER & RAW MATERIAL CONSUMPTION

i) Water Consumption, KL/day

Cooling	:	271
Domestic		
1. Plant	:	271
2. Colony	:	813

Name of the product	Process water consumption per unit of product Output (m ³ /t of product)	
	During the Previous Financial year 2017-2018	During the current Financial year 2018-2019
Steel Plant Machinery	17.6	5.5

ii) Raw Material Consumption: 27472.51 MT

Name of raw material	Name of the products	Consumption of raw material per unit of output (ton/ton of product)	
		During the Previous Financial year 2017-2018	During the current Financial year 2018-2019
Steel Plates casting & forging	Steel Plant Machinery	1.15	1.5

Note: Exclusive of electrical and other materials.

Environment Statement for 2018-19

PART-C

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

Pollutants	Quantity of pollutants Discharged (mass/day)		Concentrations Percentage of pollutants variation from in discharged prescribed (mass/volume) standards with reasons.		Percentage of pollution variation from in discharged prescribed (mass/volume) standards with reasons
	2017-18	2018-19	2017-18	2018-19	
a) WATER	Kg/day		mg/lit		
TSS	NA	NA	14	11	-
Oil & Grease	NA	NA	2.0	2.0	-
COD	NA	NA	30.0	45	
BOD	NA	NA	8.0	15	
b) AIR	Kg/day		mg/Nm³		
PM	NA	5.08	135.1	46.6	-

Ambient Air Quality (2018-19):

Parameter	UoM	TGS Near Safety Office			TGS Town		
		Min.	Max.	Avge	Min.	Max.	Avge
Particulate Matter, PM ₁₀	µg/m ³	83.34	157.47	113.58	60.57	86.83	72.23
Particulate Matter, PM _{2.5}	µg/m ³	49.73	67.21	58.03	38.68	54.24	47.06
Sulphur Dioxide (SO ₂)	µg/m ³	10.07	23.13	14.99	8.20	20.10	12.35
Nitrogen Dioxide, (NO _x)	µg/m ³	12.90	35.97	20.86	12.57	30.20	17.40
Carbon Monoxide(CO)	µg/m ³	0.27	0.60	0.47	0.28	0.50	0.37
Ammonia (NH ₃)	µg/m ³	19.33	57.67	43.86	19.33	54.00	30.17
Ozone (O ₃)	µg/m ³	17.00	43.00	25.38	14.00	31.50	22.46
Lead (Pb)	µg/m ³	0.17	0.47	0.29	0.14	0.33	0.22
Arsenic (As)	ng/m ³	0.01	0.04	0.02	0.01	0.05	0.02
Nickel (Ni)	ng/m ³	0.26	0.72	0.36	0.18	0.42	0.28
Benzene (C ₆ H ₆)	µg/m ³	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo alpha Pyrene (BaP)	ng/m ³	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

PART-D

HAZARDOUS WASTES

(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Amendment Rules, 2016)

Hazardous Waste	Total Quantity (Kg)	
	During the Previous Financial year 2017-2018	During the current Financial year 2018-2019
a) From process: - Used lubricant oil	33.81 KL	53.76 KL
b) From Pollution Facilities.	Nil	Nil

PART-E

Solid Waste

		During the Previous Financial year 2017-2018	During the current Financial year 2018-2019
a	From process		
	Steel Scrap	Nil	2867.160 MT
b	From pollution control facilities-		Not applicable
c1	Quantities recycled or reused within the unit -		Not applicable
c2	sold-		
	Steel Scrap	Nil	2867.160 MT
c3	Disposed -		Not applicable

PART-F

Please specify the characterization (in terms of composition of quantum) of hazardous as well as solid wastes and indicate disposal practices adopted for both these categories of wastes.	<ul style="list-style-type: none"> • Steel scrap is inert material and sold outside. • Used oil or waste oil is auctioned to authorized recyclers.
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PART-G

Impact of pollution control measures taken on conservation of natural resources and cost of product	Settling tank is constructed and in operation to catch oil and TSS from Canteen waste water Oil Removal plates are installed at Water discharge point from Plant
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Environment Statement for 2018-19

PART-H

Additional measures/investment proposal Environmental Protection including abatement of pollution prevention of pollution	Environment Management System (ISO-14001) is implemented
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PART-I

Particular for improving the quality of Environment	Green belt development is an ongoing process and is being given high priority. Rain water harvesting - 60 nos. of percolation pits and 40 nos. of recharging pit are existing in Adityapur Complex Area.
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