Dr. Amit Ranjan Chakraborty
Chief Environment Management

EMD/C-23/406/20
September 18th, 2020

The Member Secretary
Jharkhand State Pollution Control Board
T.A. Division Building, HEC Campus, Dhurwa
RANCHI – 834004

Subject: Environmental Statement 2019-2020 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 2019-2020 duly filled in the prescribed format is enclosed for your kind consideration.

Thanking you

Yours faithfully,
For Tata Steel Limited

Dr. Amit Ranjan Chakraborty
Chief, 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
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Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001 India
Tel 91 22 66658282 Fax 91 22 66657724
Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com

ENVIRONMENTAL STATEMENT
FOR THE YEAR 2019-2020

Tata Growth Shop
Adityapur Complex
Tata Steel Limited

Submitted by:
ENVIRONMENTAL MANAGEMENT DEPARTMENT
TATA STEEL LIMITED
JAMSHEDPUR-831001
JHARKHAND

FORM-V

Environmental Statement for the financial year ending the 31/03/2020

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 Equipment & Spare Capacity – 40150 MTPA as per CTO) Steel Plant Machinery production at Growth Shop: 4699 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 20th, 2019 vide letter no. EMD/C-23/208/19

PART-B

WATER & RAW MATERIAL CONSUMPTION

i) Water Consumption, KL/day

1. Plant (Cooling) : 250
2. Colony (Domestic) : 883

Name of the product	Process water consumption per unit of product Output (m^3/t of product)	
	During the Previous Financial year 2018-2019	During the current Financial year 2019-2020
Steel Plant Machinery	5.5	8.04

ii) Raw Material Consumption: 36979 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 2018-2019	During the current Financial year 2019-2020
Steel Plates casting & forging	Steel Plant Machinery	1.15	1.24

Note: Exclusive of electrical and other materials.

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
	2018-19	2019-20	2018-19	2019-20	
a) WATER	**Kg/day**		**mg/lit**		
TSS	NA	NA	11	22	-
Oil & Grease	NA	NA	2.0	4.5	-
COD	NA	NA	45	35	
BOD	NA	NA	15	19	
b) AIR	**Kg/day**		**mg/Nm³**		-
PM	5.08	6.06	46.6	57.64	-

Ambient Air Quality (2019-20):

Parameter	UoM	TGS Near Safety Office		
		Max.	Min.	Avg
Particulate Matter, PM_{10}	$\mu g/m^3$	302.10	81.50	126.66
Particulate Matter, $PM_{2.5}$	$\mu g/m^3$	158.10	41.20	64.04
Sulphur Dioxide (SO_2)	$\mu g/m^3$	36.00	10.70	14.78
Nitrogen Dioxide, (NO_x)	$\mu g/m^3$	48.50	16.00	25.74
Carbon Monoxide(CO)	mg/m^3	1.26	0.20	0.59
Ammonia (NH_3)	$\mu g/m^3$	47.20	22.30	29.83

Ozone (O_3)	$\mu g/m^3$	35.20	18.90	23.67
Lead (Pb)	$\mu g/m^3$	0.30	0.03	0.15
Arsenic (As)	ng/m^3	NT	NT	NT
Nickel (Ni)	ng/m^3	8.20	0.20	4.32
Benzene (C_6H_6)	$\mu g/m^3$	< 4.2	< 4.2	< 4.2
Benzo alpha Pyrene (BaP)	ng/m^3	< 0.5	< 0.5	< 0.5

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 2018-2019	**During the current Financial year 2019-2020**
a)	From process: - Used oil	53.76 KL	55.86 KL
b)	From Pollution Facilities.	Nil	Nil

PART-E

Solid Waste

		During the Previous Financial year 2018-2019	**During the current Financial year 2019-2020**
a	From process		
	Steel Scrap	2867.16 MT	4215 MT
b	From pollution control facilities-		Not Applicable
c1	Quantities recycled or reused within the unit -		Not Applicable
c2	sold-		
	Steel Scrap	2867.16 MT	4215 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.	• Steel scrap is inert material and sold outside. • Used oil or waste oil is auctioned to authorized recyclers.

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.

PART-H

Additional measures/investment proposal Environmental Protection including abatement of pollution prevention of pollution	Environment Management System (ISO-14001:2015) is implemented

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.