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Ref: HMC/ENV-STATEMENT/2019-20

To
Senior Environmental Engineer
West Bengal Pollution Control Board
Haldia Regional Office
Super Market Building, Durgachak
Haldia – 721602

22 September 2020

Dear Sir,

Please find enclosed the FORM – V - "Environment Statement for the Financial Year 2019 – 2020 of M/s Tata Steel Limited, Hooghly Met Coke Division, Haldia" for your kind perusal and use.

With regards

Yours sincerely,

Sanjoy Paul
22/09/2020

Sanjoy Paul
Head - Production

TATA STEEL LIMITED
Hooghly Met Coke Division

Patikhali P.O. Haldia Oil Refinery, Purba Medinipur Haldia 721606 West Bengal India
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Tel 91 22 6665 8282 Fax 91 22 6665 7724
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**“ENVIRONMENTAL
STATEMENT”
(2019-2020)**

of

**M/s. TATA Steel Limited
Hooghly Met Coke Division**

**Patikhali, P.O: Haldia Oil Refinery
Haldia, Purba Medinipur, Pin – 721 606**

FORM – V

(See Rule – 14)

ENVIRONMENTAL STATEMENT FOR FINANCIAL YEAR 2019-20 of

M/s. Tata Steel Ltd., Hooghly Metcoke Division,
Patikhali, P.O. Haldia Oil Refinery
Haldia, Purba Medinipur, Pin – 721 606

PART-A

- i) Name and Address of the owner/occupier of the industry operation or process : **M/s. Tata Steel Ltd., Hooghly Metcoke Division**
Patikhali, P.O: Haldia Oil Refinery
Haldia, Purba Medinipur, Pin – 721 606
- ii) Industry Category : Large Scale Industry
Primary - (STC Code) :
Secondary – (SIC Code) :
- iii) Production Capacity : 1.6 MTPA per annum Metallurgical Coke
(During Financial Year 2018-19)
- iv) Year of establishment : December 2007
- v) Date of the last environmental statement submitted : 11.09.2019

PART-B

Water & Material Consumption

1. **Water Consumption (m³/day)** : 1065 m³/day (average)
(Only for Tata Steel Ltd.)
- Process :
Domestic : 13m³/day (average)
Industrial : 1052 m³/day (average)

Name of the Products	Water consumption per unit of product output	
	During the Current Financial Year (19-20)	During the Previous Financial Year (18-19)
Metallurgical Coke	0.26 m ³ makeup water required per ton of coke production	m ³ makeup water required per 0.27 m ³ ton of coke

2. Raw Material Consumption

Name of Raw materials	Raw materials required for the year	Raw materials required for the year	Name of Products	Amount of products for the year	Amount of products for the year	Consumption of Raw material per unit of product out put	
	2018-19	2019-20		2018-19	2019-20	During the financial year 2018-19	During the financial year 2019-20
Coking Coal (dry)	199990 8.14 Ton	1942457 Ton	Metallurgical Coke (dry)	1470519 DMT	1421602 Ton	1.36	1.36

PART-C

Pollutant discharged to environment/unit of output
(Parameters as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged (mass/volume) mg/lit.	*Concentration of Pollutants discharged (mass/day) Kg/day	Percentage of variation from prescribed standard with reason
W A T E R	NOT APPLICABLE. THE UNIT MAINTAINS ZED CONDITION		
1. COD 2. BOD 3. TSS 4. Oil & Grease 5. pH	Not applicable		

- The waste water generated from process / domestic source is completely reused & recycled in the coke quenching / green belt maintenance / road washing / tyre washing purpose. The unit does not discharge water to outside drain.

Pollutants	Concentration of Pollutants discharged Kg/hr. (mass/hr.)								Average Concentration of Pollutants discharged Kg/hr. (mass/hr.)
	Chimney 1AB	Chimney 1CD	Chimney 2AB	Chimney 2CD	Chimney 3AB	Chimney 3CD	Chimney 4 AB	Chimney 4 CD	
A) A I R									
PM	7.87	13.05	9.03	13.4	8.10	4.84	5.87	7.89	8.77
SO ₂	125.64	118.55	126.89	107.86	122.70	113.51	97.77	101.76	114.3
Nox	67.83	71.41	72.66	56.24	62.21	56.74	53.14	61.25	62.68

Pollutants	Concentration of Pollutants discharged (mass/vol.) mg/Nm ³								Average Concentration Pollutants discharged (mass/vol.) mg/ℓ	
	Chimney 1AB	Chimney 1CD	Chimney 2AB	Chimney 2CD	Chimney 3AB	Chimney 3CD	Chimney 4 AB	Chimney 4 CD		
A) AIR										30.03
PM	26.8	40.8	29.6	46.9	27.55	18.25	21.08	29.8		396.33
SO ₂	427.75	370.65	415.9	375.5	417.5	427.8	351.4	384.15		216.98
Nox	230.95	223.25	238.15	195.8	211.67	213.84	191	231.2		<0.2
CO%(V/V)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		<0.2
Flow (Average)	293717	319854	305090	287254	293889	265328	278232	264903		288534

* The concentrations of pollutants discharged are within permissible limits as prescribed by WBPCB.

PART-D HAZARDOUS WASTES

(As specified under Hazardous Wastes/Management and Handling Rules, 1989)

	TOTAL QUANTITY (KG) (2018-2019)		TOTAL QUANTITY (KG) (2019-2020)	
	Generation	Sold/Disposed off	Generation	Sold/Disposed off
Used Gear / Hydraulic Oil	2.69 KL	2.69 KL	2.3 KL	0.84 KL
Oil soaked cotton jute /	1450 KG	1662 KG	1300 KG	644 KG
Oil drum / paint drum (empty)	50 Nos	65 Nos	53 Nos	31 Nos

PART-E: SOLID WASTES

	Total Quantity (KG)	
	During the Financial Year (2018 - 19)	During the Financial Year (2019 - 20)
a) From process	3617535 KG	3801104 KG
b) From Pollution Control facility	N.A.	N.A.
c) Quantity recycled or re-utilized	N.A.	N.A.
d) Sold (Coke Sludge)	734820 KG	1943190 KG
e) Disposed off	N. A.	N. A.

PART-F**Hazardous wastes:**

- The HWZ compositions are mostly Cadmium (<1.00mg/kg); O&G (4.25 %); chromium (55.41 mg/kg); Chromiun TCLP (0.39 mg/L); Copper WLT (<0.02 mg/L); copper total (6.08 mg/kg); Lead WLT (0.81 mg/L); Lead Total (19.01 mg/kg); Nickle WLT (0.12 mg/L); Nickle total (12.26 mg/kg); Zinc WLT (0.22 mg/L); Zinc total (27.75 mg/kg); pH – 7.15 etc.
- The solid waste is the coke sludge which has high ask content (18-20%); low VM (<.8);carbon content of nearly 80% .
- All the waste material are being stored at designated place inside the works and regula dispose to authorised re-cycler / re-used

PART-G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of the production.

- The pollution abatement measure taken like minimise spillage reduction; maximum utilisation of spillage by re-using it; reduction of burning loss by optimise the carbonisation process; maximise power generation; arresting all kind of leakages in the oven to obtain maximum flue gas temperature

PART-H

Additional measures, investment proposal for environmental protection including abatement of pollution, prevention of pollution.

- As may be advised by the West Bengal Pollution Control Board from time to time.

PART-I

Any other particulars for improving the quality of the environment.

- The company is engaged in green belt generation within the factory premises for the beautification of the plant and for improving the quality of the environment. Nearly 28000 saplings have been planted inside the factory premises so far. The unit has planted the saplings in the neighbourhood also and developed green belt in the local school premises also.