



TSL/UPPCB/Form-V/2023/09-1
28th September 2023.

The Chief Environment Engineer (Circle-1)
U.P. Pollution Control Board,
TC- 12V, Vibhuti Khand,
Gomati Nagar, Lucknow (U.P)

Sub.: Submission of Environmental Statement (Form-V) for FY-2022-23.

Dear Sir,

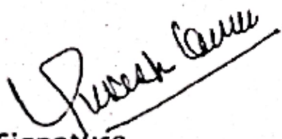
Please find enclosed herewith the "Environment Statement Report" for the financial year 2022-23.

We Hope you will find same in order.

Thanking you,


Yours faithfully,

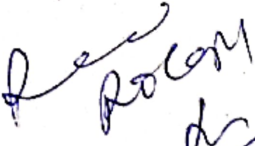
Tata Steel Limited,
Plot No -23, Site -4, Ind. Area, Sahibabad.


Signature

Executive Plant Head



 CC- The Reginal Officer, U.P. Pollution Control Board, Ghaziabad.
Encl: As above


29/09/2023
REGIONAL OFFICE
U.P. Pollution Control Board
Ins-2 Sector-16, Vasundhra
Ghaziabad

TATA STEEL LIMITED



TSL/UPPCB/Form-V/2023/09-1
28th September 2023.

The Chief Environment Engineer (Circle-1)
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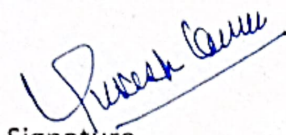
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Yours faithfully,

Tata Steel Limited,
Plot No -23, Site -4, Ind. Area, Sahibabad.



Signature
Executive Plant Head



CC- The Regional Officer, U.P. Pollution Control Board, Ghaziabad.
Encl: As above

TATA STEEL LIMITED

23 Site IV Sahibabad Industrial Area Ghaziabad 201010 Uttar Pradesh Tel 91 120 3028001 99 Fax 91 120 2770509/410057475
Registered Office Bombay House 24 Horni Mody Street Fort Mumbai 400 001 India Tel 91 22 66658282 Fax 91 22 66657724
Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com

TATA STEEL LIMITED-SAHIBABAD



FORM - V

(SEE RULE 14)

ENVIRONMENTAL STATEMENT

FOR

THE FINANCIAL YEAR ENDING

31ST MARCH, 2023.

PRESENTED BY:

M/s. TATA STEEL LIMITED.
PLOT NO.-23 & OTHERS, SITE- IV, INDL. AREA
SAHIBABAD, DIST: - GHAZIABAD. (UP).

PART - A		
i.	Name and address of the Owner/Occupier of the industry, operation, or process	Mr. T.V. NARENDRAN, (MD&CEO) TATA STEEL LTD. Plot No. 23 & others, site- iv, Sahibabad industrial area, Sahibabad, Ghaziabad, (U.P).
ii.	Industry category	Red
	Primary (STC Code),	Secondary Metallurgical Industry
	Secondary (STC Code)	Standalone Re-rolling mill
iii.	Production capacity	Cold Rolled Steel Strips / Sheets 1250 Mt/Day and Coated Plain & Corrugated Sheets: 1250 Mt/Day (0.91 MMTA) Production During 2022-23. Cold Rolled Steel Strips / Sheets - 956.74 Mt/Day and Coated Plain & Corrugated Sheets - 717.95 Mt/Day.
iv.	Year of Establishment	1989
v.	Date of the last environmental Statement Submitted	Our Letter no- TSL/UPPCB/form-V/2022/09 dated: 29 th September 2022.

PART - B		
B-1: Water and Raw Materials Consumption		
	During the previous Financial Year (2021-22)	During the Financial Year (2022-23)
1. Water consumption (annual avg.)	1435	1454
a) Process Water (m3/day)	366	347
b) Cooling Water (m3/day)	896	938
c) Domestic (m3/day)	58	59
d) Others (m3/day)	115	110
B-2: Process Water Consumption per unit of product (Lit/Kwh)		
Name of Product	Process Water Consumption per unit of product (Lit/Kwh)	
	Previous Year (2021-22)	Current Year (2022-23)
Final Cold rolled steel strips/sheets & Final coated plain & corrugated sheets	0.83 KL/Mt	0.87 KL/Mt
B-3: Raw Material Consumption		
Name of Raw material	Name of Product	Raw material consumption per unit of product (MT/MWH)

		During Previous Financial Year (2021-22)	During Current financial Year (2022-23)
HR COILS	Cold Rolled Steel Strips / Sheets and Coated Plain & Corrugated Sheets	6,69,740 Mt	6,52,752 Mt
Zinc & Alloy		7342.02 Mt	5890 Mt
Aluminium Silicon		1906.67 Mt	1705 Mt
Paint		2001.62 Mt	1128 Mt
Acid		3294 Mt	2472.604 Mt
Gas (RLNG)		921516.45 MBTU	839866.22 MBTU
Lime		435.14 Mt	500.22 Mt
Fuel (HSD)		3.171 KL	18.41 KL
LSHS		191.42 KL	0

PART - C				
Pollution discharged to Environment/ unit of output. (Parameters as Specified in the Consent issued)				
C-1: Water Pollution				
Pollutant Parameters	Prescribed Standard (mg/l)	Quantity of pollutants Discharged (kg/d)	Concentration of pollutants discharge (mg/l)	Percentage variation from prescribed standards with reasons
Water (ETP discharge)				
1. BOD	30	0.19 KL/Ton	12.00	No deviation from Prescribed standard.
2. COD	250		70.00	
3. TSS	100		53.10	
4. pH	5.5 -9.0		7.35	
5. O&G	10		2.20	
6. Iron (as Fe)	3		0.30	
Water (STP discharge)				

1.	pH	6.5-9.0	Zero STP water discharge	7.08	No deviation from Prescribed standard
2.	O&G	10 mg/L		2.30	
3.	BOD	20 mg/L		12.0	
4.	COD	250 mg/L		43.0	
5.	TSS	<50 mg/L		11.70	

C-2: Air Pollution						
Pollutant Parameters	Prescribed Standard (mg/Nm³)	Quantity of pollutants Discharged (kg/d)	Concentration of pollutants Discharged (kg/d)	Percentage variation from prescribed standards with reasons.		

A) AIR POLLUTION : STACK EMISSIONS	Prescribed Standard (mg/Nm ³)	PM (mg/nm ³)	SO ₂ (mg/nm ³)	NO _x (mg/Nm ³)	Acid Mist (mg/nm ³)	PM % BELOW THE LIMIT
DG set stack	100	**	**	**	NA	DG S/D
Pickling Stack - Old	100	16.00	5.20	12.10	<0.02	84.0 %
Boiler I Stack (UP 5447)	100	23.20	ND	ND	<0.02	76.80%
Boiler II Stack (UP 5446)	100	23.80	ND	ND	<0.02	76.30 %
Pickling Stack - New	100	9.40	ND	ND	<0.02	90.60 %
Acid Recovery Plant I Stack	100	21.60	ND	ND	<0.02	78.40 %
ECL – Alkali fumes exhaust	100	13.50	ND	ND	<0.02	86.50 %
GP Zinc Pot Furnace	100	27.50	ND	ND	<0.02	72.50 %
Acid Recovery Plant II Stack	100	27.80	ND	ND	<0.02	72.20 %

PART- D	
Hazardous Wastes	
(As specified under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016	
D-1: From process	

Hazardous wastes	Total Quantity (Liters)/MT	
	During the previous financial Year 2021-22	During the current financial year 2022-23
Used / Spent Oil	18.71 MT/A	5.20 MT/A
Zinc Dross	1079.94 MT/A	1023.12 MT/A
Zinc Ash.	Nil	Nil
Roll grinding sludge	137.25 MT/A	191.36 MT/A
Oily sludge	624.39 MT/A	570.02 MT/A
Cotton waste	9.76 MT/A	6.50 MT/A
Spent acid/Alkali	1294.13 KL	1933.0 KL
Lead Ash	Nil	Nil
D-2: From pollution control facilities		
ETP Sludge.	1089.92 MT/A	1241.68 MT/A

PART-E		
Solid Wastes		
(As specified under Solid Waste Management, Rules, 2016)		
E-1: Generation from process		
Name	Total Quantity (tons)	
	During the previous financial Year 2021-22	During the current financial Year 2022-23
Trimming, Scrap & Arising	63002.98	66019.10
E-2: Generation from Pollution Control Facility		
	Total Quantity (tons)	

Name	During the previous financial Year 2021-22	During the current financial Year 2022-23
Iron Oxide	2770.55	2640.49
E-3: Generation from Segregation Rejects/Inert Materials		
Name	Total Quantity (tons)	
	During the previous financial Year 2021-22	During the current financial Year 2022-23
	NA	NA
E-3.1: Quantity recycled or re-utilized within unit & other.		
Name	Total Quantity (tons)	
	During the current financial Year 2021-22	During the current financial Year 2022-23
(a)	NA	NA
(b)	NA	NA
E-3.2: Sold		
Name	Total Quantity (tons)	
	During the current financial Year 2021-22	During the current financial Year 2022-23
	NILL	NILL
E-3.3: Disposed		
Name	Total Quantity (tons)	
	During the current financial Year 2021-22	During the current financial Year 2022-23
Industrial Garbage	636.84 MT	568.76 MT

PART-F

Please specify the characteristics in terms of composition and quantum of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes:

F-1: Hazardous Wastes

Description	Chemical composition	Disposal Method
1. ETP Sludge	Na(mg/kg)-92,SO4(%)-188,N(mg/kg)-29,OM(%)-148,Fe(mg/kg)-9.7,K(mg/kg)-12	Through TSDF
2. STP Sludge	Na(mg/kg)-88,SO4(%)-186,N(mg/kg)-27,OM(%)-146,Fe(mg/kg)-9.76,K(mg/kg)-11	Through TSDF
3. Grinding Sludge	Na(mg/kg)-86,SO4(%)-182,N(mg/kg)-25,OM(%)-144,Fe(mg/kg)-9.74,K(mg/kg)-13	Through TSDF
4. Mill Sludge	Na(mg/kg)-72,SO4(%)-165,N(mg/kg)-19,OM(%)-132,Fe(mg/kg)-9.61,K(mg/kg)-13	Through TSDF

F-2: Solid Wastes

1.	NA	NA
2.	NA	NA

We have proper arrangements for storage of hazardous waste. Covered shed with concrete floor, all round drain and catch pit has been provided for safe storage before disposal to authorized recyclers.

PART- G

IMPACT OF THE POLLUTION CONTROL MEASURE ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON THE COST OF PRODUCTION.

IMPACT OF POLLUTION CONTROL MEASURES ON COST OF PRODUCTION

Our Galvanizing line is modern Galvanizing line with minimum possible air pollution. The fuel used is LPG which creates less pollution due to efficient fuel composition system and improved stack height and design of the chimney. This Galvanizing line is having Non-Ox type furnace and preheating cum cleaning facilities to maintain strip temperature suitable for Galvanizing process. As such there is no need of Pickling process prior to Galvanizing where acidic effluent is generated. On all other conventional type of Galvanizing line pickling process is must. By adopting this state of art , advance technology Galvanizing line with non- ox type furnace ,there is no need of adding extra equipment's for degreasing and acidic pickling for measuring any surface impurities or rusty patches etc.

Thus, it can be noted that our Galvanizing line with non-ox type furnace is least polluted plant. This has increased the cost of production but has helped in the improvement of the environmental degradation.

EFFLUENT TREATMENT PLANT

TREATMENT FACILITIES

The main source of Effluent is pickling line from where acid rinse wastewater and spent acid are generated. To take care of above effluents, proper ETP plant is already in operation for treatment of effluents as per the Pollution Control Board Norms.

In order to reduce the rinse water discharge from the pickling line, the company have installed cascade system which is multistage assemblage allowing for counter current flow of wash waters. The strips leaving the assembly comes into contact with the fresh incoming water and the water inside flows in the counter current fashion against the strips coming after being dipped in acid bath. By virtue of providing cascading system, there is major reduction in rinse water discharge. The present ETP has been designed by national productivity council, to take care the spent acid and rinse water discharge generated during the process of Pickling of HR Coils.

The Effluent Treatment Plant comprises of storage tanks, Reaction tanks, clarifiers, lamella settlers and filter presses.

Apart from Effluent Treatment Plant, we have STP Plant

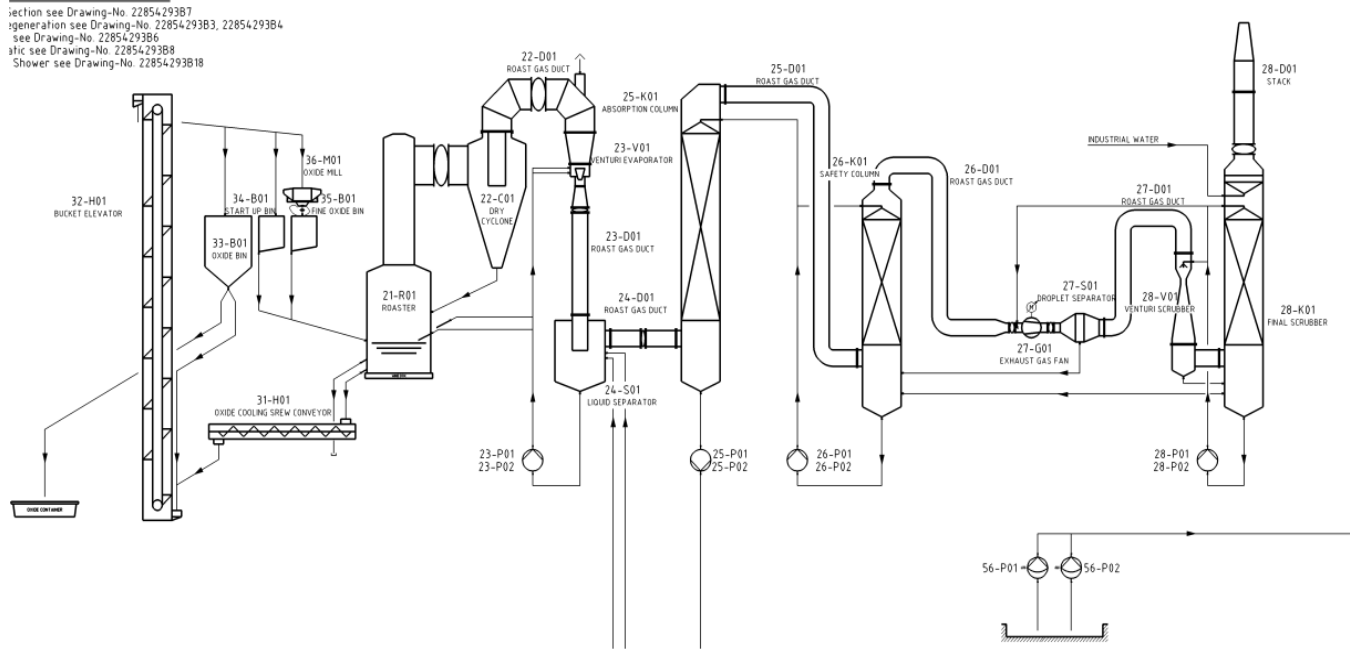
SEWAGE TREATMENT PLANT (STP) : we have a full fledged “SEWAGE TREATMENT PLANT (STP)” of 60 KLD to take care of domestic effluent suitable for disposal. The Process Flow & Treatment Scheme (Capacity: 60 KLD) and Detailed Lay out Plan of 60 KLD STP diagram of the STP Plant are as below: -



ACID REGENERATION PLANT (ARP) :To achieve the goal of continuous improvement with reduced discharge, we have already installed and commissioned ARP of SMS SIEMAG (SMS GROUP) of Austria (Germany) making plant “ARP i.e. ACID REGENERATION PLANT” with a capacity of 2 x 2500 IPh with total cost more than Rs. 50 crores.

The SMS SIEMAG ARP (Acid Regeneration Plant) regenerates hydrochloric acid from Waste Pickle Liquor from hydrochloric acid pickling line on the principle of pyro hydrolysis by applying fluidized bed technology. The same is operative since June/July 2013.

ARP SYSTEM PROCESS OVERVIEW



AIR POLLUTION CONTROL

IMPACT ON AIR ENVIRONMENT:

For energy requirement, we are using LNG/LSHS as Fuel and have kept sufficient height of each stack for material disperse of the gases. Besides this, Fuel LNG as a green energy to no emission either through water or air and is within the limits as prescribed by the board.

CAPTIVE POWER PLANT

We have installed a captive power plant consisting of 2 DG sets each of capacity 12 MW. Common stack attached to DG Sets has been maintained at the height of 100 meters against the requisite height of 73 meters.

1. To recover heat of the Exhaust Gas from Engine, 2nos of waste heat recovery boilers installed with a steam gen. capacity of 4.8 Ton / Hr. each boiler. Expenditure of Exhaust Gas Boiler No. 1.
2. We have stopped the use of Furnace Oil with the directions of Supreme Court and replaced it with LSHS and using Non-Polluting medium LNG – Clean Fuel) for our process to reduce impact of air pollutant in environment.
3. Installation of Waste heat Boilers and Heat recovery system to produce steam at DG Set which enables us to use only one Boiler at a time. Thus, impacting on less power consumption and directly reducing Air Pollution. Both the Boilers have started operating with Natural Gas. However, one boiler is operated at a time with Heat recovery boilers in operation.

4. Power generation of DG Sets reduced by consuming more of grid power resulting in reducing lesser Air Pollution. Besides our generation we have power load of 27.084 MVA from UP Power Corporation Ltd. (PVVNL),
5. Installation of Automatic Air dilution system at Galvanizing lines Exhaust, which reduces the exhaust fumes temperature disposed to air impacting directly towards Climate control.
6. Continuously Air monitoring is done by the CPCB/UPPCB approved laboratories on regular basis to monitor the environmental situation.
7. Green Environment with planting more plants along the side of factory boundary walls and by maintaining Gardens at various locations. We also have a well-maintained Nursery to produce good Quality of Plants resulting in Good & Healthy Environment and control on Air Pollution.
8. Apart from this we are also monitoring work environment on Quarterly basis from the third party ETS. We have also developed our own monitoring stations for regular Monitoring.
9. Online continuous Effluent monitoring and online continuous stack monitoring system have been installed and connected with the server of CPCB and UPPCB.

PART- H & I

ADDITIONAL INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION AND ABATEMENT OF POLLUTION.

The management has invested more than crores to put up upgraded technology to take care the effluent generated during the process. Management, thus provide more and more facilities with a view to give encouraging results of treated effluents. We have also installed acid re-generation plant, which is controlling the environment to great extent. We have also installed STP plant.

TSL Sahibabad has participated in Van Mahotsav and planting 4000 saplings In the outside of factory premises.

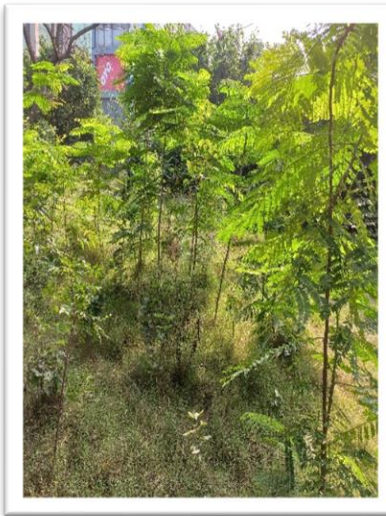
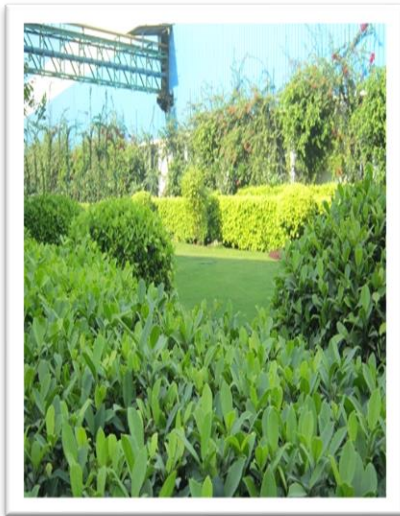
Tata Steel ltd., Sahibabad extracts groundwater for Industrial processes and drinking purpose. As a responsible industrialist, we implemented and invested approximately 9 crores in rainwater harvesting projects for ground water recharge inside plant premises and Adopted ponds in nearby villages such as Painga, Patla, Sadarpur, Misbapur, kakra, Dasna in district Ghaziabad. The total ground water recharge through implementing rainwater harvesting projects is 4.38 lakhs cubic meter, out of which 0.96 lakh cubic meter ground water recharge is through roof top inside plant premises and 3.41 lakh cubic meter is through adopted ponds in nearby villages.

Small initiatives have been taken for freshwater consumption. Waterless urinals have been installed in company premises saving approximately 5400 KL/ annum water. Water mist taps have been installed saving approximately 50% of Total RO water consumption. STP treated water has been reused in toilet flushing. Reuse of process water in cooling tower.

The company has been to install ZLD by FY 24, the implementation of the same is in process. The company is also exploring further means to reduce their ground water extraction by reusing water from treated STP water from STP Indirapuram. The discussions are still in process.

IMPROVING THE QUALITY OF ENVIRONMENT

We have already developed a green belt area. Further, we have planted trees around E.T.P and other areas. Good housekeeping and proper Control Measures are adopted regularly in keeping industry neat and clean. We have established STP tank and ARP system to keep proper control of Pollution. Industry has plans for plantation of trees in surrounding areas with the help of Administration. Inside factory premises total 12000 plants have been planted.



We have kept open any investment proposal for pollution abatement in future.

ANY OTHER PARTICULARS IN RESPECT OF ENVIRONMENT PROTECTION AND ABATEMENT OF POLLUTION.

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



TC-8771



TEST REPORT

TEST REPORT NO.: ETS/2109/07/2023

URLNO.TC877123000002109F

DATE OF REPORT: 28.07.2023

WASTE WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date of Sampling : 24.07.2023
Analysis Start Date : 24.07.2023
Analysis End Date : 28.07.2023
Sample ID No : 2109
Sampling Done By : ETS STAFF
Sample Description : E.T.P
Sampling Location : E.T.P. INLET
Sampling Method : ETS/STP/WATER-02
Sample Quantity : 2.0 Ltr.
Packing Condition : SEALED
Packed In : P.V.C. CANE

S. No.	Test Parameter	Unit	Result	Test Method
1	pH	...	1.70	APHA 4500-H+
2	Total Suspended Solids,(TSS)	mg/L	261.0	APHA 2540-D
3	Total Dissolved Solids,(TDS)	mg/L	13140.0	APHA 2540-C
4	Oil & Grease, (O & G)	mg/L	8.5	APHA 5520-D
5	Biological Oxygen Demand(BOD _{3@27°C})	mg/L	14.0	IS: 3025 (Part-44)
6	Chemical Oxygen Demand,(COD)	mg/L	355.0	APHA 5220-B
7	Iron,(Fe)	mg/L	5.61	APHA-3120B

*****End of Test Report*****

Page 1 of 1

CHECKED BY
SHRADDHA GUPTA

Format No ETS/LAB/TR-10, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.





ENVIRO-TECH SERVICES

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



TC-8771



TEST REPORT

TEST REPORT NO.: ETS/2110/07/2023

URLNO.TC877123000002110F

DATE OF REPORT: 28.07.2023

WASTE WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4, SITE-IV, SAHIBABAD INDUSTRIAL AREA, SAHIBABAD
GHAZIABAD U.P.

Date of Sampling : 24.07.2023

Analysis Start Date : 24.07.2023

Analysis End Date : 28.07.2023

Sample ID No : 2110

Sampling Done By : ETS STAFF

Sample Description : E.T.P

Sampling Location : E.T.P. OUTLET

Sampling Method : ETS/STP/WATER-02

Sample Quantity : 2.0 Ltr.

Packing Condition : SEALED

Packed In : P.V.C. CANE

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)		Test Method
				Inland Surface Water	Public Sewers	
1	pH	...	7.35	5.5 - 9.0	5.5 - 9.0	APHA 4500-H+
2	Total Suspended Solids,(TSS)	mg/L	53.1	100	600	APHA 2540-D
3	Total Dissolved Solids,(TDS)	mg/L	1956.0	2100	Not Specified	APHA 2540-C
4	Oil & Grease, (O & G)	mg/L	2.2	10	20	APHA 5520-D
5	Biological Oxygen Demand(BOD ₃₀ 27°C)	mg/L	12.0	30	350	IS: 3025 (Part-44)
6	Chemical Oxygen Demand,(COD)	mg/L	70.0	250	Not Specified	APHA 5220-B
7	Iron,(Fe)	mg/L	0.30	3	3	APHA-3120B

*****End of Test Report*****

Page 1 of 1

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services
Pushkar Mittal
AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-10, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO.: ETS/2110-3/07/2023

URLNO.TC877123000021103F

DATE OF REPORT: 28.07.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer

: TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date of Monitoring

: 24.07.2023

Analysis Start Date

: 25.07.2023

Analysis End Date

: 28.07.2023

Duration Of Monitoring

: 24.07.2023 To 25.07.2023

Time Of Monitoring

: 10.20 AM To 10.20 AM (CO&O₃ for 1.0 Hrs.)

Sample ID No

: 2110-3

Sampling Done By

: ETS STAFF

Sampling Location

: NEAR MAIN GATE OF FACTORY

Sampling Method

: ETS/STP/AIR-01

Sampling Machine Placed At Height

: 1.5 METER FROM GROUND LEVEL

Weather Condition

: CLEAR Ambient Temperature: 38.0 °C

Wind Direction

: E To W

Equipment Used

: Respirable Dust Sampler (PM₁₀) + Fine Particulate Sampler (PM_{2.5})

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters,(PM ₁₀)	µg/m ³	94.1	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters,(PM _{2.5})	µg/m ³	37.4	For 24 Hrs.=60	IS 5182 (Part-24)
3	Sulphur Dioxide, (SO ₂)	µg/m ³	13.6	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide,(NO ₂)	µg/m ³	31.5	For 24 Hrs.=80	IS: 5182 (Part-6)
5	Ammonia,(NH ₃)	µg/m ³	<5.0	For 24 Hrs.=400	IS 5182 (Part-25)
6	Ozone,(O ₃)	µg/m ³	21.0	For 1 Hrs.=180	IS: 5182 (Part.-9)
7	Lead,(Pb)	µg/m ³	<0.05	For 24 Hrs.=1	IS 5182 (Part-22)

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services
Prof. Pushkar Mittal
AUTHORIZED SIGNATORY
Lab In-charge

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ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory



ISO 45001

(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



TEST REPORT

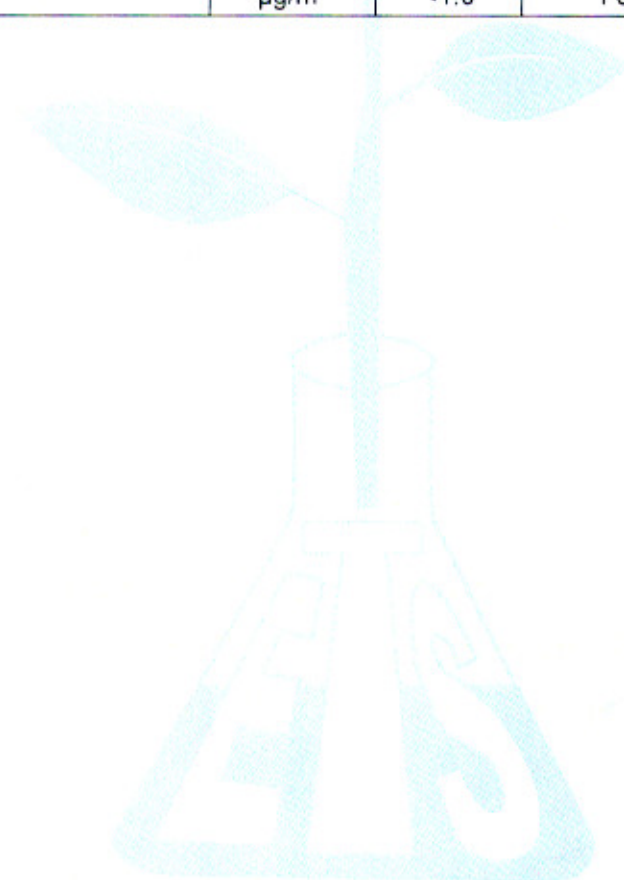
TEST REPORT NO.: ETS/2110-3/07/2023

DATE OF REPORT: 28.07.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
8	Arsenic,(As)	ng/m ³	<1.0	For Annual=06	IS 5182 (Part-22)
9	Nickel,(Ni)	ng/m ³	<1.0	For Annual=20	CPCB,Vol.-1, Pg.-48
10	Carbon Monoxide,(CO)	mg/m ³	0.57	For 1 Hrs.=4	IS 5182 : Part 10
11	Benzo (a) Pyrine (BaP)	ng/m ³	<0.05	For Annual=01	IS: 5182 (Part-12)
12	Benzene,(C ₆ H ₆)	µg/m ³	<1.0	For 24 Hrs.=5	IS 5182 (Part-11)

*****End of Test Report*****



Page 2 of 2

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SHRADDHA GUPTA



Format No ETS/LAB/TR-01, Issue No. 06, Date 01.05.2022, Amd. No. 05 Date 01.05.2022

For Enviro-Tech Services

Pradeep
AUTHORIZED SIGNATORY
Lab In-charge

Note:-

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TEST REPORT

TEST REPORT NO.: ETS/2110-4/07/2023

URLNO.TC877123000021104F

DATE OF REPORT: 28.07.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date of Monitoring : 24.07.2023

Analysis Start Date : 25.07.2023

Analysis End Date : 28.07.2023

Duration Of Monitoring : 24.07.2023 To 25.07.2023

Time Of Monitoring : 10.40 AM To 10.40 AM (CO&O₃ for 1.0 Hrs.)

Sample ID No : 2110-4

Sampling Done By : ETS STAFF

Sampling Location : NEAR MEDICAL ROOM (GREEN BELT AREA)

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 38.0 °C

Wind Direction : E To W

Equipment Used : Respirable Dust Sampler (PM₁₀) + Fine Particulate Sampler (PM_{2.5})

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters,(PM ₁₀)	µg/m ³	87.5	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters,(PM _{2.5})	µg/m ³	32.3	For 24 Hrs.=60	IS 5182 (Part-24)
3	Sulphur Dioxide, (SO ₂)	µg/m ³	11.6	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide,(NO ₂)	µg/m ³	24.2	For 24 Hrs.=80	IS: 5182 (Part-6)
5	Ammonia,(NH ₃)	µg/m ³	<5.0	For 24 Hrs.=400	IS 5182 (Part-25)
6	Ozone,(O ₃)	µg/m ³	15.0	For 1 Hrs.=180	IS: 5182 (Part.-9)
7	Lead,(Pb)	µg/m ³	<0.05	For 24 Hrs.=1	IS 5182 (Part-22)

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TEST REPORT

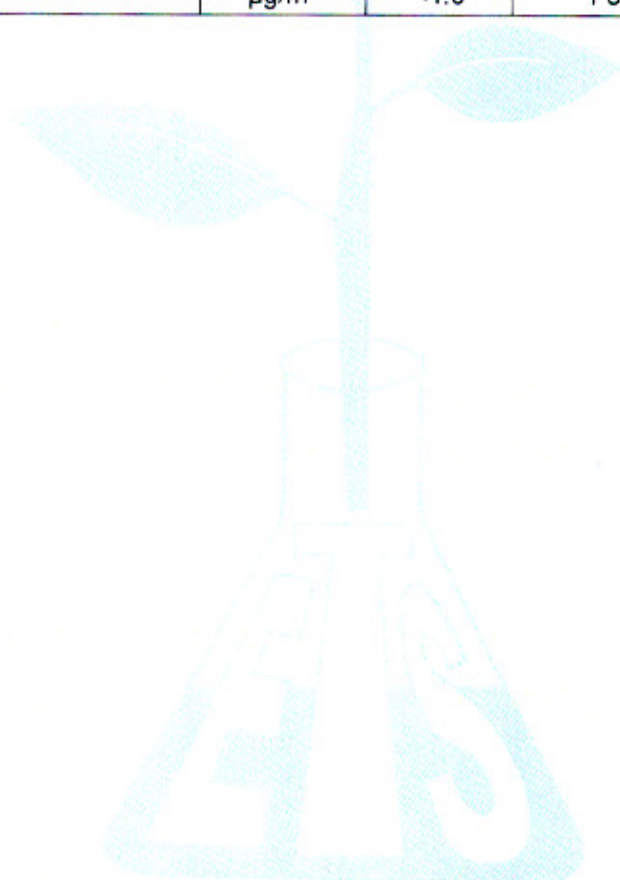
TEST REPORT NO.: ETS/2110-4/07/2023

DATE OF REPORT: 28.07.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
8	Arsenic,(As)	ng/m ³	<1.0	For Annual=06	IS 5182 (Part-22)
9	Nickel,(Ni)	ng/m ³	<1.0	For Annual=20	CPCB,Vol.-1, Pg.-48
10	Carbon Monoxide,(CO)	mg/m ³	0.53	For 1 Hrs.=4	IS 5182 : Part 10
11	Benzo (a) Pyrine (BaP)	ng/m ³	<0.05	For Annual=01	IS: 5182 (Part-12)
12	Benzene,(C ₆ H ₆)	µg/m ³	<1.0	For 24 Hrs.=5	IS 5182 (Part-11)

*****End of Test Report*****



Page 2 of 2

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY

Lab In-charge

Format No ETS/LAB/TR-01, Issue No. 06, Date 01.05.2022, Amd. No. 05 Date 01.05.2022

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TEST REPORT

TEST REPORT NO.: ETS/2110-5/07/2023 URLNO.TC877123000021105F DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 24.07.2023
Analysis Start Date : 25.07.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 30.0 MIN
Sample ID No. : 2110-5
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : H & T FURNACE NO.02 & 03
Capacity Of Stack : --
Quantity Of Fuel Used : ---
Type Of Fuel Used : L.N.G
Stack Height Above Ground : 16.0 MTR.
Stack Dia At The Top : 400.0 MM
Material Of Construction : M.S
Attached APCS :
Normal Operating Schedule : 24.0 HOURS PER DAY
Ambient Temperature : 38.0°C
Flue Gas Temperature : 80.0°C
Velocity Of Flue Gases : 8.9 MTR./SEC.
Quantity Of Emission Discharged : 4024.22 m³/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters,(PM)	mg/Nm ³	17.8	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide,(CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide,(CO ₂)	%v/v	<1.0	IS: 13270: 2008
6	Oxygen,(O ₂)	%v/v	8.9	IS: 13270: 2008
7	Lead,(Pb)	mg/Nm ³	< 0.05	USEPA 6010D
8	Zinc,(Zn)	mg/Nm ³	< 0.05	USEPA 6010D

Page 1 of 2

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

CHECKED BY
SHRADDHA GUPTA

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ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory



ISO 45001

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TEST REPORT

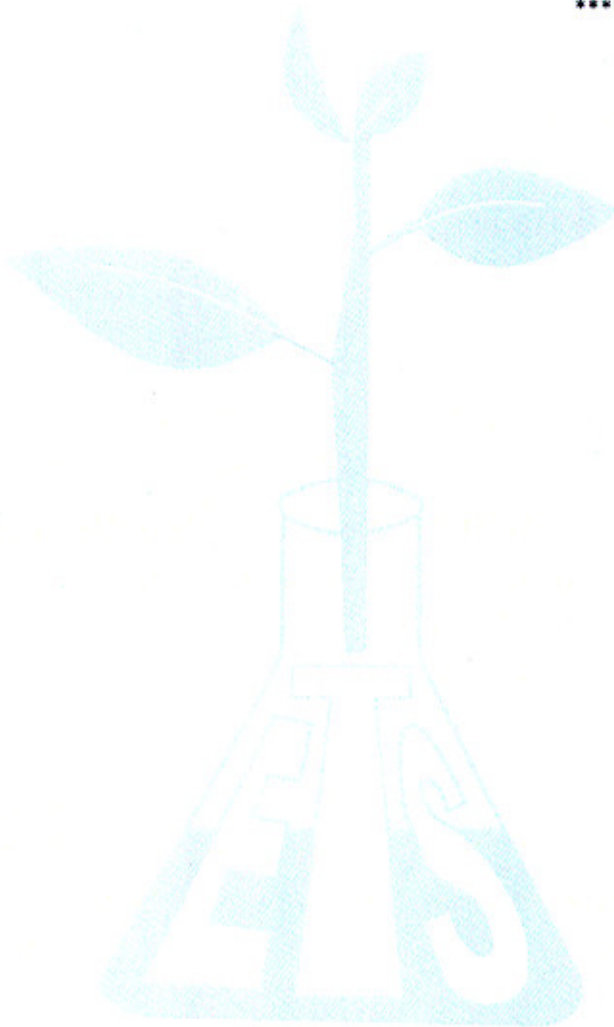
TEST REPORT NO.: ETS/2110-5/07/2023

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Test Method
9	Acid Mist (HCL)	mg/Nm ³	<0.02	Volumetric Method

REMARK-H & T FURNACE-02 & 03 ARE ATTACHED TO A SINGLE STACK. DURING MONITORING FURNACE NO-02 WAS RUNNING *****End of Test Report*****



Page 2 of 2

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Pushkar Patel
Lab in-charge

Format No ETS/LAB/TR-01, Issue No. 06, Date 01.05.2022, Amd. No. 05 Date 01.05.2022

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TEST REPORT

TEST REPORT NO.: ETS/2110-6/07/2023

URLNO.TC877123000021106F

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 24.07.2023
Analysis Start Date : 25.07.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 30.0 MIN
Sample ID No. : 2110-6
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : DG SET NO-01
Capacity Of Stack : 12.0 MW
Quantity Of Fuel Used : 1750 LPH
Type Of Fuel Used : L.S.H.S
Stack Height Above Ground : 105.0 MTR.
Stack Dia At The Top : 5400.0 MM
Material Of Construction : R.C.C
Attached APCS : -----
D.G. Set Comm. Date : ON OR AFTER 01/07/2005 (> 800 KW)
Normal Operating Schedule : AS PER REQUIRMENTS
Ambient Temperature : 38.0°C
Flue Gas Temperature : 310.0 °C
Velocity Of Flue Gases : 12.1 MTR./SEC.
Quantity Of Emission Discharged : 997114.53 m³/hr

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters (PM at 15% O ₂)	mg/Nm ³	65.3	100	IS-11255 (Part-1)
2	Oxides of Nitrogen(NOx asNO ₂ at 15% O ₂)	Ppmv	211.0	710	IS-11255 (Part-7)
3	Carbon Monoxide (CO at 15% O ₂)	mg/Nm ³	14.1	150	IS: 13270
4	Sulphur Dioxide,(SO ₂)	mg/Nm ³	73.0	Not Specified	IS-11255 (Part-2)
5	Oxygen (O ₂)	% by vol	12.6	Not Specified	IS: 13270

*****End of Test Report*****

CHECKED BY
SHRADDHA GUPTA

Page 1 of 2

For Enviro-Tech Services
Punskar Mittal
Lab In-charge
AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-05, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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ETS-LAB

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TEST REPORT

TEST REPORT NO.: ETS/2110-6/07/2023

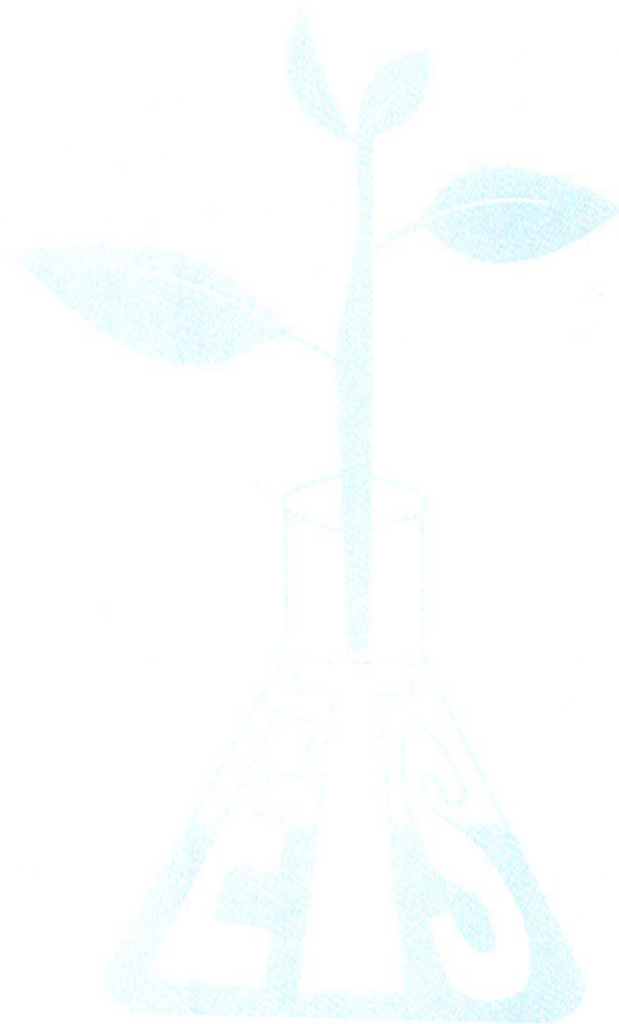
DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
6	Non Methane Hydro Carbon(NMHC at 15% O ₂)	mg/Nm ³	34.0	100	ETS/STP/STACK-07

Remark:-AT THE TIME OF MONITORING TWO D.G SET ARE ATTACHED TO SINGLE STACK.DURING MONITORING DG.SET NO-01 WAS RUNNING.

*****End of Test Report*****



CHECKED BY
SHRADDHA GUPTA

Page 2 of 2

For Enviro-tech Services

 AUTHORIZED SIGNATORY
 Pushkar Mittal
 Lab In-charge

Format No ETS/LAB/TR-05, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TC-8771

TEST REPORT

TEST REPORT NO.: ETS/2110-7/07/2023

URLNO.TC877123000021107F

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 24.07.2023
Analysis Start Date : 25.07.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 30.0 MIN
Sample ID No. : 2110-7
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : DG SET NO-02
Capacity Of Stack : 12.0 MW
Quantity Of Fuel Used : 1750 LPH
Type Of Fuel Used : L.S.H.S
Stack Height Above Ground : 105.0 MTR.
Stack Dia At The Top : 5400.0 MM
Material Of Construction : R.C.C
Attached APCS : -----
D.G. Set Comm. Date : ON OR AFTER 01/07/2005 (> 800 KW)
Normal Operating Schedule : AS PER REQUIRMENTS
Ambient Temperature : 38.0°C
Flue Gas Temperature : 298.0 °C
Velocity Of Flue Gases : 10.9 MTR./SEC.
Quantity Of Emission Discharged : 89827.14 m³/hr

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters (PM at 15% O ₂)	mg/Nm ³	67.3	100	IS-11255 (Part-1)
2	Oxides of Nitrogen(NOx asNO ₂ at 15% O ₂)	ppmv	201.0	710	IS-11255 (Part-7)
3	Carbon Monoxide (CO at 15% O ₂)	mg/Nm ³	14.5	150	IS: 13270
4	Sulphur Dioxide,(SO ₂)	mg/Nm ³	71.8	Not Specified	IS-11255 (Part-2)
5	Oxygen (O ₂)	% by vol	12.4	Not Specified	IS: 13270

*****End of Test Report*****

Page 1 of 2

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SHRADDHA GUPTA

For Enviro-Tech Services

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Format No ETS/LAB/TR-05, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

Lab In-charge

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TEST REPORT

TEST REPORT NO.: ETS/2110-7/07/2023

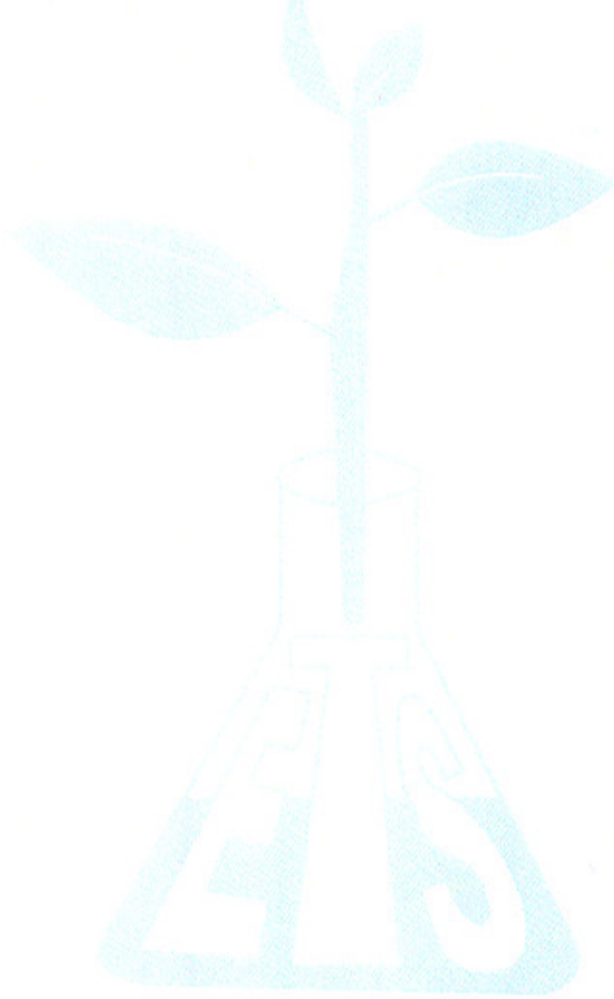
DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
6	Non Methane Hydro Carbon(NMHC at 15% O ₂)	mg/Nm ³	41.0	100	ETS/STP/STACK-07

Remark:-AT THE TIME OF MONITORING TWO D.G SET ARE ATTACHED TO SINGLE STACK.DURING MONITORING DG.SET NO-02 WAS RUNNING.

*****End of Test Report*****



Page 2 of 2

For Enviro Tech Services
[Signature]
AUTHORIZED SIGNATORY
Lab In-charge

Format No ETS/LAB/TR-05, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO.: ETS/2110-1/07/2023

URLNO.TC877123000021101F

DATE OF REPORT: 28.07.2023

WASTE WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date of Sampling : 24.07.2023
Analysis Start Date : 24.07.2023
Analysis End Date : 28.07.2023
Sample ID No : 2110-1
Sampling Done By : ETS STAFF
Sample Description : S.T.P
Sampling Location : S.T.P. INLET
Sampling Method : ETS/STP/WATER-02
Sample Quantity : 2.0 Ltr.
Packing Condition : SEALED
Packed In : P.V.C. CANE

S. No.	Test Parameter	Unit	Result	Test Method
1	pH	...	7.47	APHA 4500-H+
2	Total Suspended Solids,(TSS)	mg/L	913.0	APHA 2540-D
3	Total Dissolved Solids,(TDS)	mg/L	1762.0	APHA 2540-C
4	Oil & Grease, (O & G)	mg/L	7.2	APHA 5520-D
5	Biological Oxygen Demand(BOD _{3d} 27°C)	mg/L	34.0	IS: 3025 (Part-44)
6	Chemical Oxygen Demand,(COD)	mg/L	235.0	APHA 5220-B
7	Sulphate,(SO ₄)	mg/L	113.0	APHA 4500:(SO ₄)-E
8	Chloride,(Cl)	mg/L	197.0	APHA 4500:(Cl)-B

*****End of Test Report*****



Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-10, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TC-8771



TEST REPORT

TEST REPORT NO.: ETS/2110-2/07/2023

URLNO.TC87712300021102F

DATE OF REPORT: 28.07.2023

WASTE WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date of Sampling : 24.07.2023
Analysis Start Date : 24.07.2023
Analysis End Date : 28.07.2023
Sample ID No : 2110-2
Sampling Done By : ETS STAFF
Sample Description : S.T.P
Sampling Location : S.T.P. OUTLET
Sampling Method : ETS/STP/WATER-02
Sample Quantity : 2.0 Ltr.
Packing Condition : SEALED
Packed In : P.V.C. CANE

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	pH	...	7.08	6.5 - 9.0	APHA 4500-H+
2	Total Suspended Solids,(TSS)	mg/L	11.7	< 50	APHA 2540-D
3	Total Dissolved Solids,(TDS)	mg/L	1401.0	2100	APHA 2540-C
4	Oil & Grease, (O & G)	mg/L	2.3	10	APHA 5520-D
5	Biological Oxygen Demand(BOD ₃₀ 27°C)	mg/L	12.0	20	IS: 3025 (Part-44)
6	Chemical Oxygen Demand,(COD)	mg/L	43.0	Not Specified	APHA 5220-B
7	Sulphate,(SO ₄)	mg/L	32.0	Not Specified	APHA 4500:(SO ₄)-E
8	Chloride,(Cl)	mg/L	89.0	Not Specified	APHA 4500:(Cl)-B

*****End of Test Report*****



Page 1 of 1

For Enviro-Tech Services

Puskar Mittal
AUTHORIZED SIGNATORY
Lab in-charge

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TEST REPORT

TEST REPORT NO.: ETS/2119/07/2023

URLNO.TC877123000002119F

DATE OF REPORT: 28.07.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date of Monitoring : 25.07.2023
Analysis Start Date : 26.07.2023
Analysis End Date : 28.07.2023
Duration Of Monitoring : 25.07.2023 To 26.07.2023
Time Of Monitoring : 10.40 AM To 10.40 AM (CO&O₃ for 1.0 Hrs.)
Sample ID No : 2119
Sampling Done By : ETS STAFF
Sampling Location : NEAR TRANSPORT AREA
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL
Weather Condition : CLEAR Ambient Temperature: 38.0 °C
Wind Direction : E To W
Equipment Used : Respirable Dust Sampler (PM₁₀) + Fine Particulate Sampler (PM_{2.5})

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters,(PM ₁₀)	µg/m ³	91.5	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters,(PM _{2.5})	µg/m ³	35.9	For 24 Hrs.=60	IS 5182 (Part-24)
3	Sulphur Dioxide, (SO ₂)	µg/m ³	12.4	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide,(NO ₂)	µg/m ³	26.8	For 24 Hrs.=80	IS: 5182 (Part-6)
5	Ammonia,(NH ₃)	µg/m ³	<5.0	For 24 Hrs.=400	IS 5182 (Part-25)
6	Ozone,(O ₃)	µg/m ³	17.0	For 1 Hrs.=180	IS: 5182 (Part.-9)
7	Lead,(Pb)	µg/m ³	<0.05	For 24 Hrs.=1	IS 5182 (Part-22)

Page 1 of 2



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SHRADDHA GUPTA

For Enviro-Tech Services


AUTHORIZED SIGNATORY
Ashker Mittal
In-charge

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Note:-

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TEST REPORT

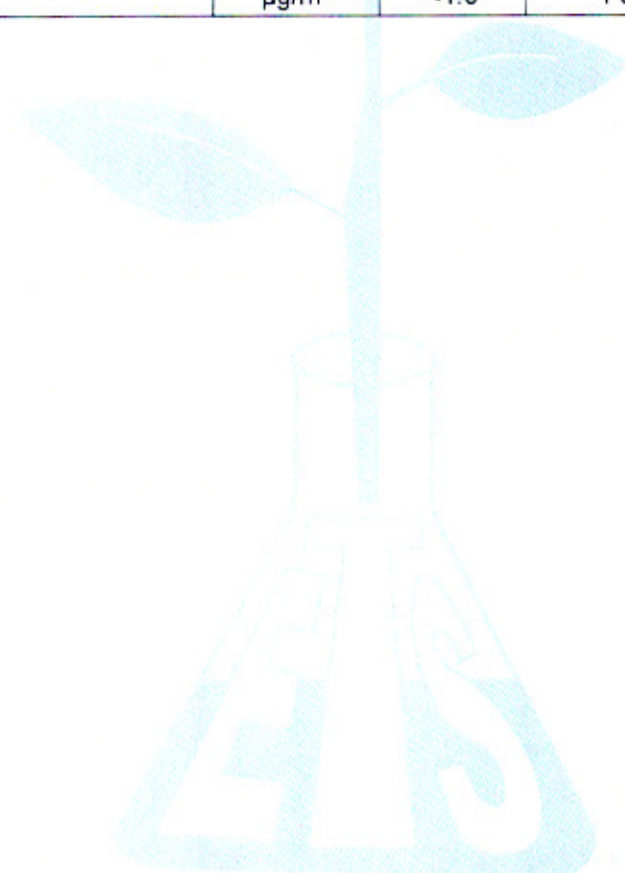
TEST REPORT NO.: ETS/2119/07/2023

DATE OF REPORT: 28.07.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
8	Arsenic,(As)	ng/m ³	<1.0	For Annual=06	IS 5182 (Part-22)
9	Nickel,(Ni)	ng/m ³	<1.0	For Annual=20	CPCB,Vol.-1, Pg.-48
10	Carbon Monoxide,(CO)	mg/m ³	0.56	For 1 Hrs.=4	IS 5182 : Part 10
11	Benzo (a) Pyrine (BaP)	ng/m ³	<0.05	For Annual=01	IS: 5182 (Part-12)
12	Benzene,(C ₆ H ₆)	µg/m ³	<1.0	For 24 Hrs.=5	IS 5182 (Part-11)

*****End of Test Report*****



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TEST REPORT

TEST REPORT NO.: ETS/2120/07/2023

URLNO.TC877123000002120F

DATE OF REPORT: 28.07.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date of Monitoring : 25.07.2023

Analysis Start Date : 26.07.2023

Analysis End Date : 28.07.2023

Duration Of Monitoring : 25.07.2023 To 26.07.2023

Time Of Monitoring : 10.40 AM To 10.40 AM (CO&O₃ for 1.0 Hrs.)

Sample ID No : 2120

Sampling Done By : ETS STAFF

Sampling Location : NEAR ETP AREA

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLEAR Ambient Temperature: 38.0 °C

Wind Direction : E To W

Equipment Used : Respirable Dust Sampler (PM₁₀) + Fine Particulate Sampler (PM_{2.5})

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters,(PM ₁₀)	µg/m ³	85.7	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters,(PM _{2.5})	µg/m ³	33.5	For 24 Hrs.=60	IS 5182 (Part-24)
3	Sulphur Dioxide, (SO ₂)	µg/m ³	12.4	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide,(NO ₂)	µg/m ³	24.8	For 24 Hrs.=80	IS: 5182 (Part-6)
5	Ammonia,(NH ₃)	µg/m ³	<5.0	For 24 Hrs.=400	IS 5182 (Part-25)
6	Ozone,(O ₃)	µg/m ³	16.0	For 1 Hrs.=180	IS: 5182 (Part.-9)
7	Lead,(Pb)	µg/m ³	<0.05	For 24 Hrs.=1	IS 5182 (Part-22)

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TEST REPORT

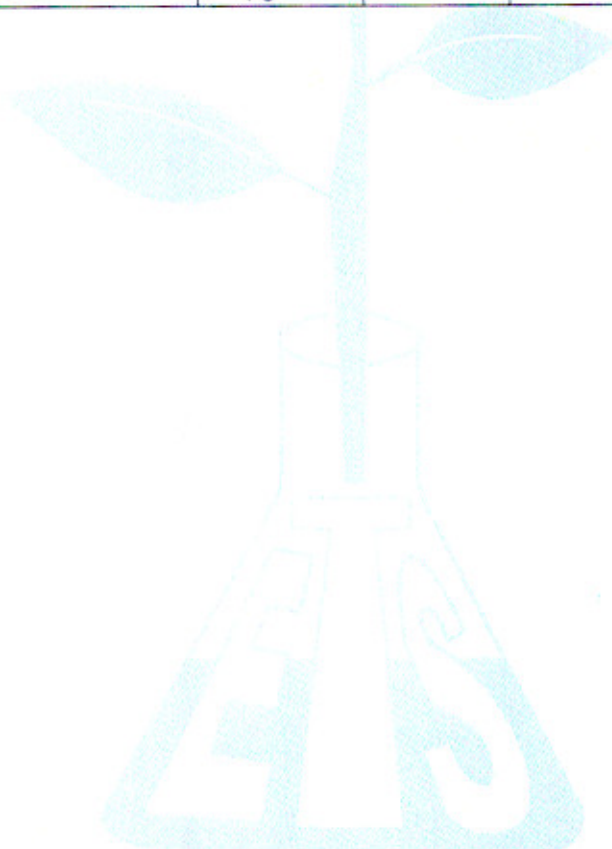
TEST REPORT NO.: ETS/2120/07/2023

DATE OF REPORT: 28.07.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
8	Arsenic,(As)	ng/m ³	<1.0	For Annual=06	IS 5182 (Part-22)
9	Nickel,(Ni)	ng/m ³	<1.0	For Annual=20	CPCB,Vol.-1, Pg.-48
10	Carbon Monoxide,(CO)	mg/m ³	0.46	For 1 Hrs.=4	IS 5182 : Part 10
11	Benzo (a) Pyrine (BaP)	ng/m ³	<0.05	For Annual=01	IS: 5182 (Part-12)
12	Benzene,(C ₆ H ₆)	µg/m ³	<1.0	For 24 Hrs.=5	IS 5182 (Part-11)

*****End of Test Report*****



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TEST REPORT

TEST REPORT NO.: ETS/2121/07/2023

URLNO.TC877123000002121F

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 25.07.2023
Analysis Start Date : 26.07.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 30.0 MIN
Sample ID No. : 2121
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : BOILER NO.1(UP - 5447)
Capacity Of Stack : 10.0 TPH
Quantity Of Fuel Used : 602NM³/HR
Type Of Fuel Used : L.N.G
Stack Height Above Ground : 38.0 MTR.
Stack Dia At The Top : 1000.0 MM
Material Of Construction : M.S
Attached APCS :
Normal Operating Schedule : 24.0 HOURS PER DAY
Ambient Temperature : 34.0^oC
Flue Gas Temperature : 160.0^oC
Velocity Of Flue Gases : 9.2 MTR./SEC.
Quantity Of Emission Discharged : 25999.2 m³/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters,(PM)	mg/Nm ³	23.2	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide,(CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide,(CO ₂)	%v/v	<1.0	IS: 13270: 2008
6	Oxygen,(O ₂)	%v/v	11.3	IS: 13270: 2008
7	Lead,(Pb)	mg/Nm ³	< 0.05	USEPA 6010D
8	Zinc,(Zn)	mg/Nm ³	< 0.05	USEPA 6010D

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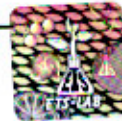


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TEST REPORT

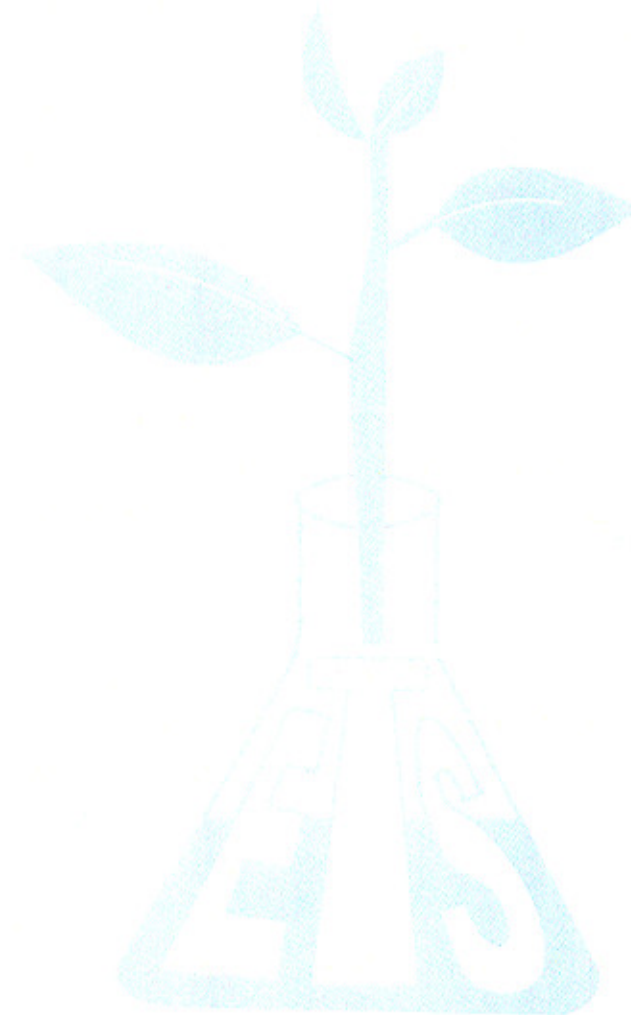
TEST REPORT NO.: ETS/2121/07/2023

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Test Method
9	Acid Mist (HCL)	mg/Nm ³	<0.02	Volumetric Method

*****End of Test Report*****



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TEST REPORT

TEST REPORT NO.: ETS/2122/07/2023

URLNO.TC877123000002122F

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 25.07.2023
Analysis Start Date : 26.07.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 30.0 MIN
Sample ID No. : 2122
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : BOILER NO.2(UP - 5446)
Capacity Of Stack : 10.0 TPH
Quantity Of Fuel Used : 592NM³/HR
Type Of Fuel Used : L.N.G
Stack Height Above Ground : 47.0 MTR.
Stack Dia At The Top : 1000.0 MM
Material Of Construction : M.S
Attached APCS :
Normal Operating Schedule : 24.0 HOURS PER DAY
Ambient Temperature : 38.0°C
Flue Gas Temperature : 176.0°C
Velocity Of Flue Gases : 7.3 MTR./SEC.
Quantity Of Emission Discharged : 20629.8 m³/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters.(PM)	mg/Nm ³	23.8	IS-11255 (Part-1)
2	Sulphur Dioxide.(SO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen.(NOX as NO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide.(CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide.(CO ₂)	%v/v	<1.0	IS: 13270: 2008
6	Oxygen.(O ₂)	%v/v	11.5	IS: 13270: 2008
7	Zinc,(Zn)	mg/Nm ³	< 0.05	USEPA 6010D

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Page 1 of 2

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Rishabh Mittal
Lab In-charge
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TEST REPORT

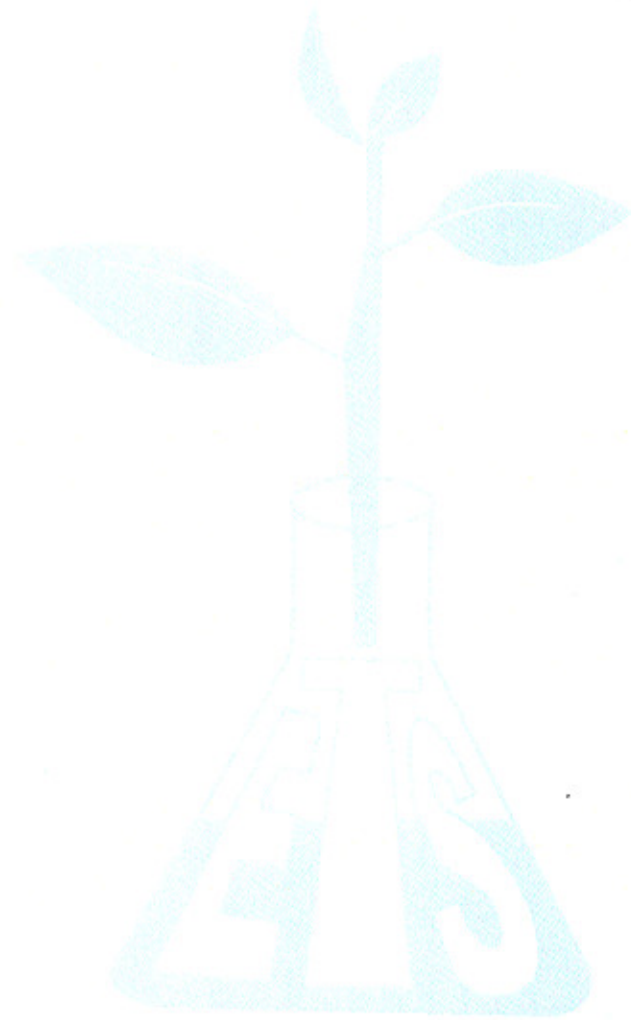
TEST REPORT NO.: ETS/2122/07/2023

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Test Method
8	Acid Mist (HCL)	mg/Nm ³	<0.02	Volumetric Method

*****End of Test Report*****



Page 2 of 2

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[Signature]
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Lab In-charge

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TEST REPORT

TEST REPORT NO.: ETS/2123/07/2023

URLNO.TC877123000002123F

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 25.07.2023
Analysis Start Date : 26.07.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 30.0 MIN
Sample ID No. : 2123
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : CCL INCINERATOR OF PAINT FUMES
Capacity Of Stack :
Quantity Of Fuel Used :
Type Of Fuel Used : L.N.G
Stack Height Above Ground : 40.0 MTR.
Stack Dia At The Top : 1980.0 MM
Material Of Construction : M.S
Attached APCS :
Normal Operating Schedule : 24.0 HOURS PER DAY
Ambient Temperature : 38.0°C
Flue Gas Temperature : 157.0°C
Velocity Of Flue Gases : 12.8 MTR./SEC.
Quantity Of Emission Discharged : 141811.84 m³/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters,(PM)	mg/Nm ³	26.7	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide,(CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide,(CO ₂)	%v/v	<1.0	IS: 13270: 2008
6	Oxygen,(O ₂)	%v/v	11.4	IS: 13270: 2008
7	Zinc,(Zn)	mg/Nm ³	< 0.05	USEPA 6010D



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[Signature]
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Note:-

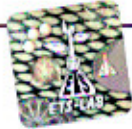
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TEST REPORT

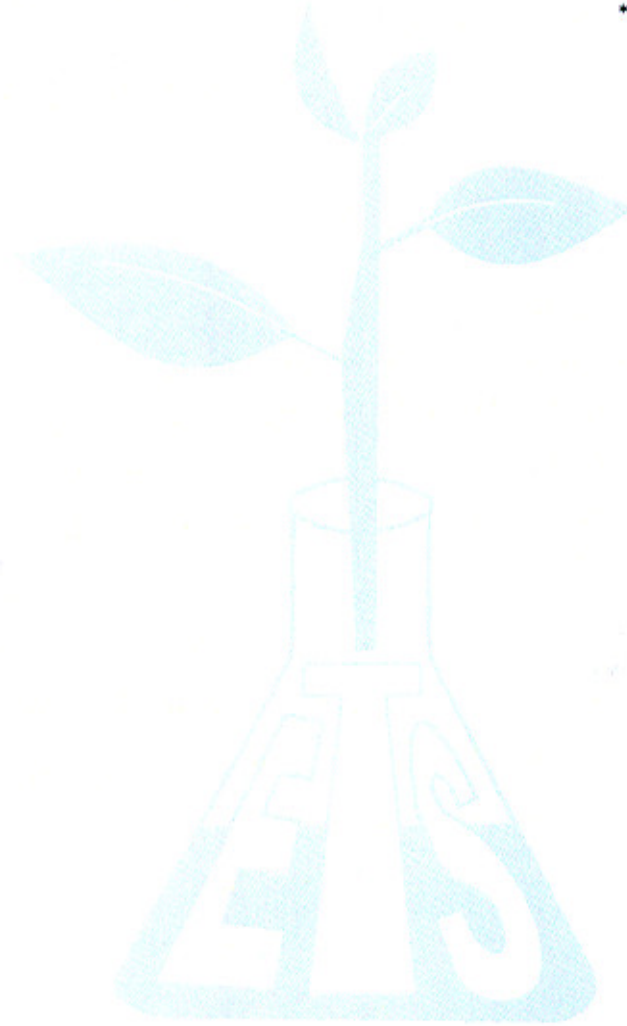
TEST REPORT NO.: ETS/2123/07/2023

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT


S. No.	Test Parameter	Unit	Result	Test Method
8	Alkali Fumes	mg/Nm ³	0.34	NIOSH

*****End of Test Report*****



Page 2 of 2


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TC-8771



TEST REPORT

TEST REPORT NO.: ETS/2124/07/2023 URLNO.TC877123000002124F DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4, SITE-IV, SAHIBABAD INDUSTRIAL AREA, SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 25.07.2023
Analysis Start Date : 26.07.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 30.0 MIN
Sample ID No. : 2124
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : ECL-ALKALI FUMES EXHAUST
Capacity Of Stack :
Quantity Of Fuel Used :
Type Of Fuel Used : ELECTRICITY
Stack Height Above Ground : 22.0 MTR.
Stack Dia At The Top : 1000.0 MM
Material Of Construction : M.S
Attached APCS :
Normal Operating Schedule : 24.0 HOURS PER DAY
Ambient Temperature : 38.0°C
Flue Gas Temperature : 95.0°C
Velocity Of Flue Gases : 12.4 MTR./SEC.
Quantity Of Emission Discharged : 35042.4 m³/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters,(PM)	mg/Nm ³	13.5	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide,(CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide,(CO ₂)	%v/v	<1.0	IS: 13270: 2008
6	Oxygen,(O ₂)	%v/v	8.7	IS: 13270: 2008
7	Lead,(Pb)	mg/Nm ³	< 0.05	USEPA 6010D
8	Zinc,(Zn)	mg/Nm ³	<0.05	USEPA 6010D

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TEST REPORT

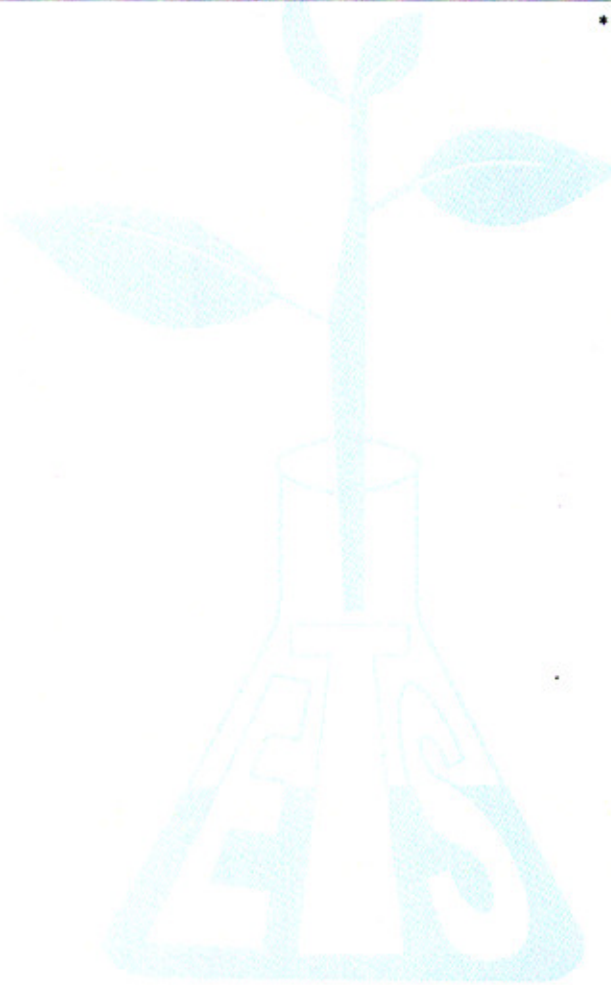
TEST REPORT NO.: ETS/2124/07/2023

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Test Method
9	Acid Mist (HCL)	mg/Nm ³	<0.02	Volumetric Method
10	Alkali Fumes	mg/Nm ³	0.28	NIOSH

*****End of Test Report*****



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Lab In-charge

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TC-8771



TEST REPORT

TEST REPORT NO.: ETS/2125/07/2023 URLNO.TC877123000002125F DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 25.04.2023
Analysis Start Date : 26.04.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 30.0 MIN
Sample ID No. : 2125
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : ACID FUMES OLD PICKLING
Capacity Of Stack : --
Quantity Of Fuel Used : ---
Type Of Fuel Used : ---
Stack Height Above Ground : 30.0 MTR.
Stack Dia At The Top : 800.0 MM
Material Of Construction : F.R.P
Attached APCS : ...
Normal Operating Schedule : AS PER REQUIREMENTS
Ambient Temperature : 38.0 °C
Flue Gas Temperature : 98.0 °C
Velocity Of Flue Gases : 12.7 MTR./SEC.
Quantity Of Emission Discharged : 23874.04 m³/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters,(PM)	mg/Nm ³	16.0	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO ₂)	mg/Nm ³	5.2	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO ₂)	mg/Nm ³	12.1	IS-11255 (Part-7)
4	Carbon Monoxide,(CO)	%v/v	0.35	IS: 13270: 2008
5	Carbon Dioxide,(CO ₂)	%v/v	0.81	IS: 13270: 2008
6	Oxygen,(O ₂)	%v/v	8.0	IS: 13270: 2008
7	Zinc,(Zn)	mg/Nm ³	< 0.05	USEPA 6010D



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Pushkar Mittal
Lab In-charge

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TEST REPORT

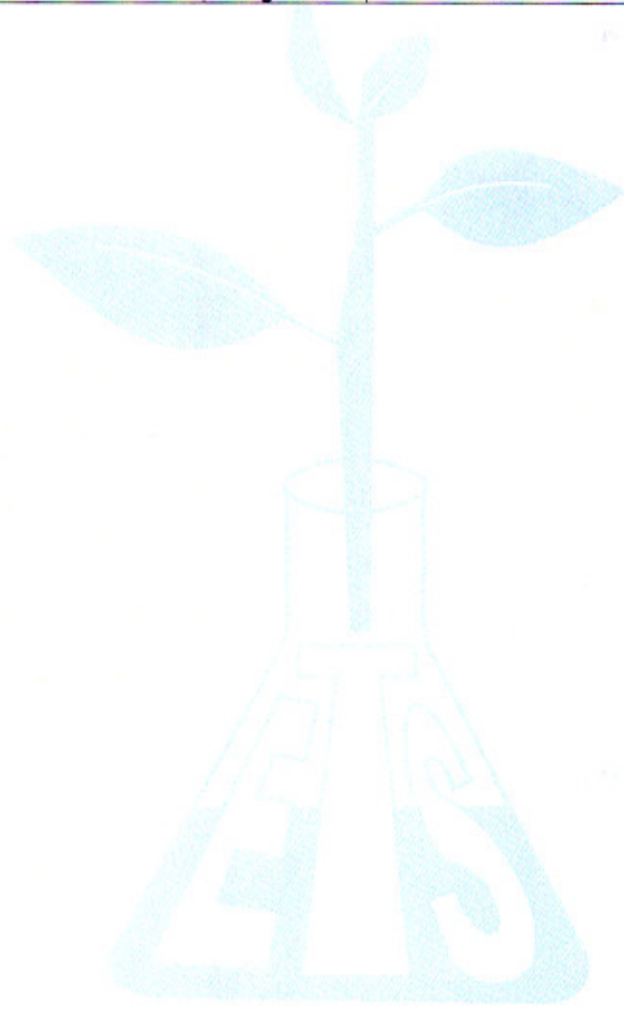
TEST REPORT NO.: ETS/2125/07/2023

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Test Method
8	Acid Mist (HCL)	mg/Nm ³	<0.02	Volumetric Method

*****End of Test Report*****



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TEST REPORT

TEST REPORT NO.: ETS/2126/07/2023

URLNO.TC877123000002126F

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 25.07.2023
Analysis Start Date : 26.07.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 30.0 MIN
Sample ID No. : 2126
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : ACID FUMES NEW PICKLING
Capacity Of Stack : --
Quantity Of Fuel Used : ---
Type Of Fuel Used : ---
Stack Height Above Ground : 30.0 MTR.
Stack Dia At The Top : 650.0 MM
Material Of Construction : F.R.P
Attached APCS : ...
Normal Operating Schedule : AS PER REQUIREMENTS
Ambient Temperature : 38.0 °C
Flue Gas Temperature : 75.0 °C
Velocity Of Flue Gases : 11.8 MTR./SEC.
Quantity Of Emission Discharged : 14089.02 m³/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters,(PM)	mg/Nm ³	9.4	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide,(CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide,(CO ₂)	%v/v	<1.0	IS: 13270: 2008
6	Oxygen,(O ₂)	%v/v	11.8	IS: 13270: 2008
7	Zinc,(Zn)	mg/Nm ³	< 0.05	USEPA 6010D

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Rajendra Kumar Mittal
Lab In-charge

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TEST REPORT

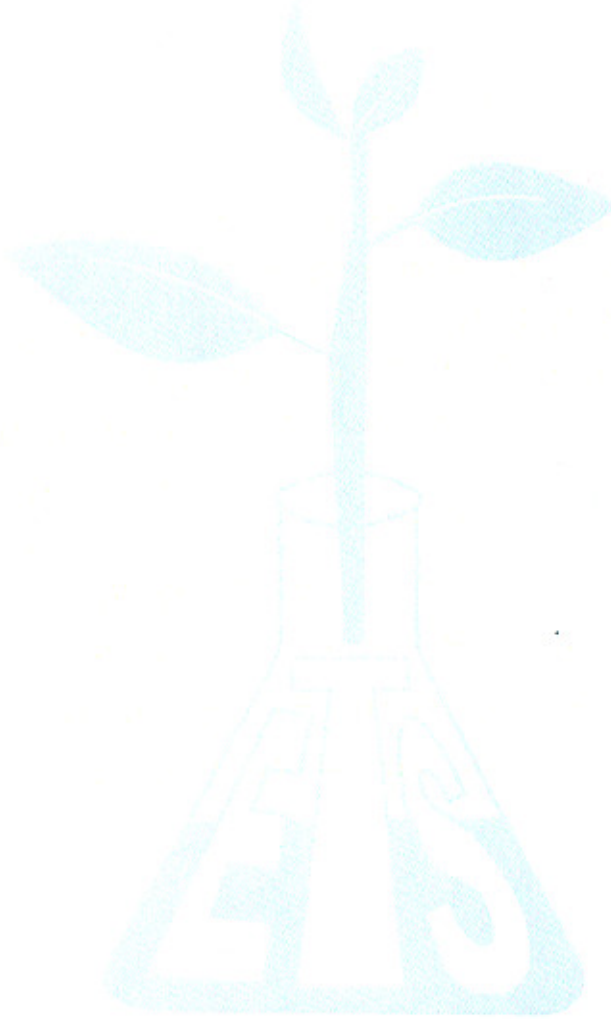
TEST REPORT NO.: ETS/2126/07/2023

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Test Method
8	Acid Mist (HCL)	mg/Nm ³	<0.02	Volumetric Method

*****End of Test Report*****



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Ruchkar Mittal
Lab In-charge

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TEST REPORT

TEST REPORT NO.: ETS/2127/07/2023 URLNO.TC877123000002127F DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 26.07.2023
Analysis Start Date : 26.07.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 30.0 MIN
Sample ID No. : 2127
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : GP III NON OX
Capacity Of Stack : --
Quantity Of Fuel Used : ---
Type Of Fuel Used : L.N.G
Stack Height Above Ground : 25.0 MTR.
Stack Dia At The Top : 860.0 MM
Material Of Construction : M.S
Attached APCS :
Normal Operating Schedule : 24.0 HOURS PER DAY
Ambient Temperature : 38.0°C
Flue Gas Temperature : 180.0°C
Velocity Of Flue Gases : 12.1 MTR./SEC.
Quantity Of Emission Discharged : 25290.32 m³/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters,(PM)	mg/Nm ³	17.1	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide,(CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide,(CO ₂)	%v/v	<1.0	IS: 13270: 2008
6	Oxygen,(O ₂)	%v/v	11.8	IS: 13270: 2008
7	Lead,(Pb)	mg/Nm ³	< 0.05	USEPA 6010D
8	Zinc,(Zn)	mg/Nm ³	< 0.05	USEPA 6010D

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Pooja
Lab In-charge
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TEST REPORT

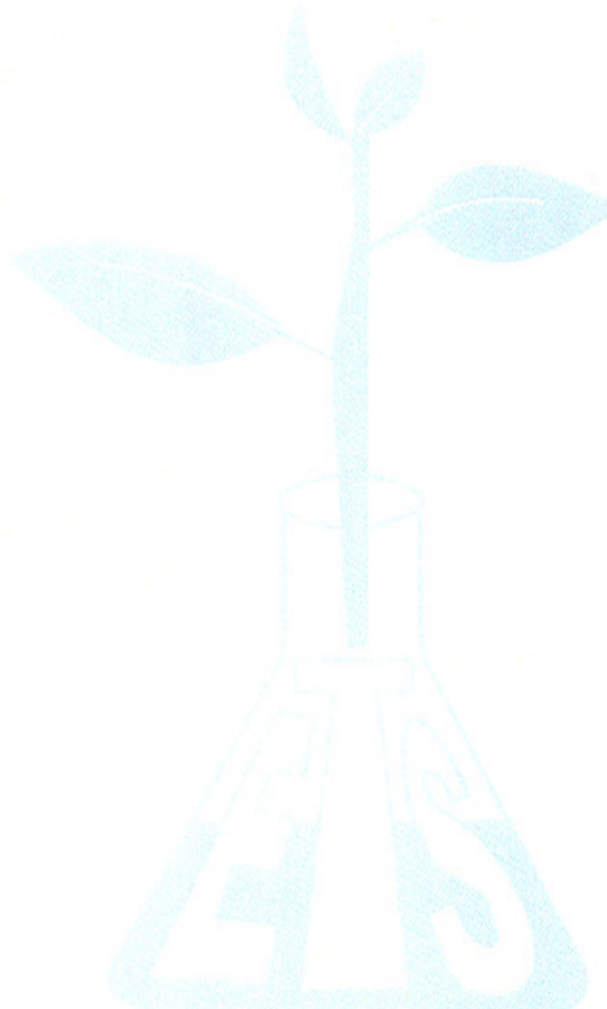
TEST REPORT NO.: ETS/2127/07/2023

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Test Method
9	Acid Mist (HCL)	mg/Nm ³	<0.02	Volumetric Method

*****End of Test Report*****



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Ashish Kumar Mittal
Lab in-charge
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TC-8771



TEST REPORT

TEST REPORT NO.: ETS/2128/07/2023

URLNO.TC877123000002128F

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4, SITE-IV, SAHIBABAD INDUSTRIAL AREA, SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 26.07.2023
Analysis Start Date : 26.07.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 30.0 MIN
Sample ID No. : 2128
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : GP III HAG
Capacity Of Stack : --
Quantity Of Fuel Used : ---
Type Of Fuel Used : L.N.G
Stack Height Above Ground : 25.0 MTR.
Stack Dia At The Top : 500.0 MM
Material Of Construction : M.S
Attached APCS :
Normal Operating Schedule : 24.0 HOURS PER DAY
Ambient Temperature : 38.0°C
Flue Gas Temperature : 140.0°C
Velocity Of Flue Gases : 10.7 MTR./SEC.
Quantity Of Emission Discharged : 7559.55 m³/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters,(PM)	mg/Nm ³	21.1	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide,(CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide,(CO ₂)	%v/v	<1.0	IS: 13270: 2008
6	Oxygen,(O ₂)	%v/v	9.7	IS: 13270: 2008
7	Lead,(Pb)	mg/Nm ³	< 0.05	USEPA 6010D
8	Zinc,(Zn)	mg/Nm ³	< 0.05	USEPA 6010D

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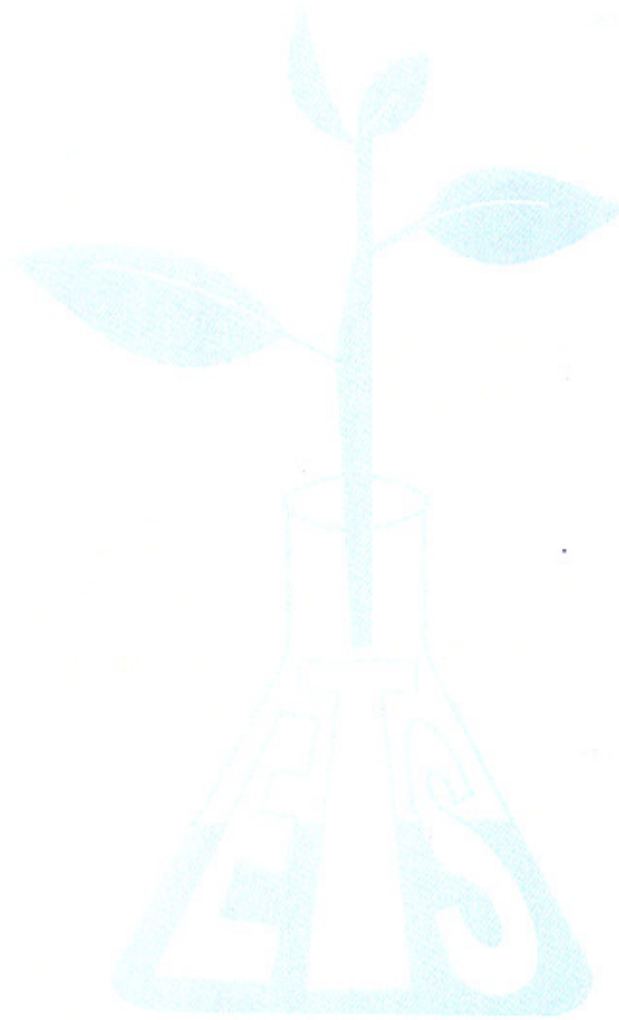
TEST REPORT NO.: ETS/2128/07/2023

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Test Method
9	Acid Mist (HCL)	mg/Nm ³	<0.02	Volumetric Method


*****End of Test Report*****



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Poojika Mittal
Lab in-charge
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TC-8771



TEST REPORT

TEST REPORT NO.: ETS/2129/07/2023

URLNO.TC877123000002129F

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 26.07.2023
Analysis Start Date : 26.07.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 30.0 MIN
Sample ID No. : 2129
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : GP III ZINC POT FURNACE
Capacity Of Stack :
Quantity Of Fuel Used :
Type Of Fuel Used : L.N.G
Stack Height Above Ground : 25.0 MTR.
Stack Dia At The Top : 400.0 MM
Material Of Construction : M.S
Attached APCS :
Normal Operating Schedule : 24.0 HOURS PER DAY
Ambient Temperature : 38.0°C
Flue Gas Temperature : 192.0°C
Velocity Of Flue Gases : 11.6 MTR./SEC.
Quantity Of Emission Discharged : 5245.05 m³/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters,(PM)	mg/Nm ³	27.5	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide,(CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide,(CO ₂)	%v/v	<1.0	IS: 13270: 2008
6	Oxygen,(O ₂)	%v/v	8.7	IS: 13270: 2008
7	Lead,(Pb)	mg/Nm ³	< 0.05	USEPA 6010D
8	Zinc,(Zn)	mg/Nm ³	< 0.05	USEPA 6010D

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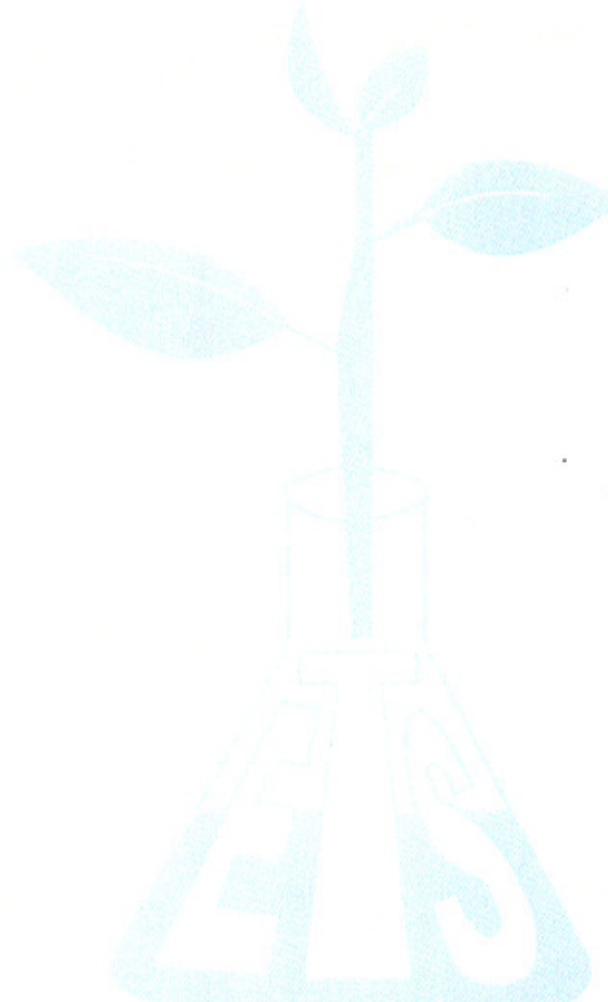
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DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Test Method
9	Acid Mist (HCL)	mg/Nm ³	<0.02	Volumetric Method

*****End of Test Report*****



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TEST REPORT

TEST REPORT NO.: ETS/2130/07/2023

URLNO.TC877123000002130F

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 26.07.2023
Analysis Start Date : 26.07.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 30.0 MIN
Sample ID No. : 2130
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : GP - IV FURNACE EXHAUST (DFH)
Capacity Of Stack :
Quantity Of Fuel Used :
Type Of Fuel Used : L.N.G
Stack Height Above Ground : 25.0 MTR.
Stack Dia At The Top : 3800.0 MM
Material Of Construction : M.S
Attached APCS :
Normal Operating Schedule : 24.0 HOURS PER DAY
Ambient Temperature : 38.0°C
Flue Gas Temperature : 1820°C
Velocity Of Flue Gases : 10.4 MTR./SEC.
Quantity Of Emission Discharged : 424397.37 m³/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters,(PM)	mg/Nm ³	25.7	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide,(CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide,(CO ₂)	%v/v	<1.0	IS: 13270: 2008
6	Oxygen,(O ₂)	%v/v	8.9	IS: 13270: 2008
7	Zinc,(Zn)	mg/Nm ³	< 0.05	USEPA 6010D

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Page 1 of 2

For Enviro Tech Services
Pushkar Mittal
Lab In-Charge
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Format No ETS/LAB/TR-01, Issue No. 06, Date 01.05.2022, Amd. No. 05 Date 01.05.2022

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063



TEST REPORT

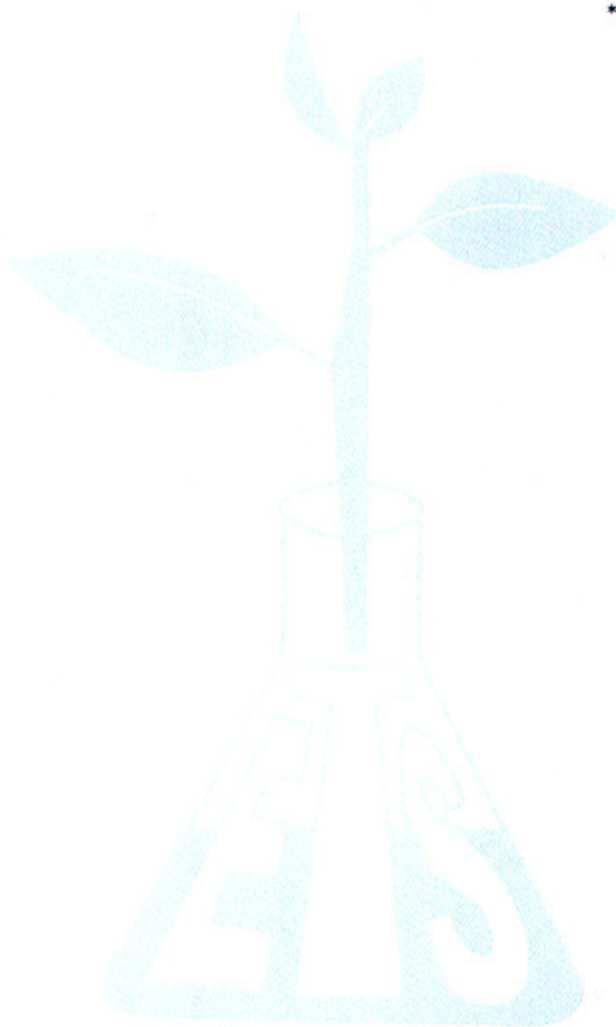
TEST REPORT NO.: ETS/2130/07/2023

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Test Method
8	Acid Mist (HCL)	mg/Nm ³	<0.02	Volumetric Method

*****End of Test Report*****



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Page 2 of 2

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Rishabh Mittal
Lab In-charge

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TC-8771



TEST REPORT

TEST REPORT NO.: ETS/2131/07/2023

URLNO.TC87712300002131F

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 26.07.2023
Analysis Start Date : 26.07.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 30.0 MIN
Sample ID No. : 2131
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : GP - IV FURNACE EXHAUST (RTH)
Capacity Of Stack :
Quantity Of Fuel Used :
Type Of Fuel Used : L.N.G
Stack Height Above Ground : 25.0 MTR.
Stack Dia At The Top : 3400.0 MM
Material Of Construction : M.S
Attached APCS :
Normal Operating Schedule : 24.0 HOURS PER DAY
Ambient Temperature : 38.0°C
Flue Gas Temperature : 185.0°C
Velocity Of Flue Gases : 12.4 MTR./SEC.
Quantity Of Emission Discharged : 405090.14 m³/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters,(PM)	mg/Nm ³	27.3	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide,(CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide,(CO ₂)	%v/v	<1.0	IS: 13270: 2008
6	Oxygen,(O ₂)	%v/v	10.2	IS: 13270: 2008
7	Zinc,(Zn)	mg/Nm ³	< 0.05	USEPA 6010D

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TEST REPORT

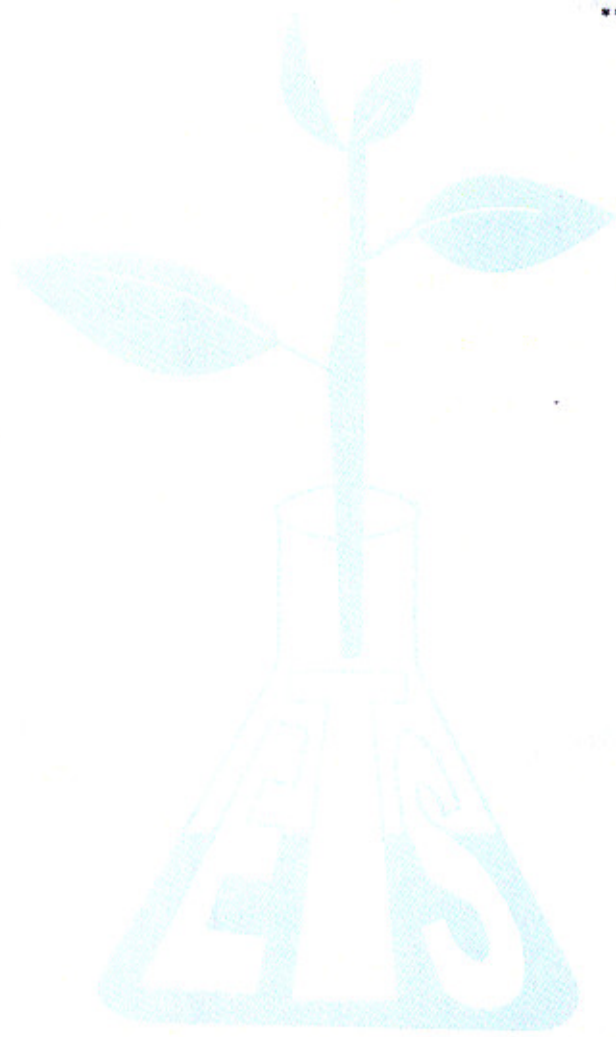
TEST REPORT NO.: ETS/2131/07/2023

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Test Method
8	Acid Mist (HCL)	mg/Nm ³	<0.02	Volumetric Method

*****End of Test Report*****



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TC-8771



TEST REPORT

TEST REPORT NO.: ETS/2132/07/2023

URLNO.TC877123000002132F

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 26.07.2023
Analysis Start Date : 26.07.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 30.0 MIN
Sample ID No. : 2132
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : GP - IV FURNACE EXHAUST (HAG)
Capacity Of Stack :
Quantity Of Fuel Used :
Type Of Fuel Used : ELECTRICITY
Stack Height Above Ground : 25.0 MTR.
Stack Dia At The Top : 3400.0 MM
Material Of Construction : M.S
Attached APCS :
Normal Operating Schedule : 24.0 HOURS PER DAY
Ambient Temperature : 38.0°C
Flue Gas Temperature : 179.0°C
Velocity Of Flue Gases : 13.2 MTR./SEC.
Quantity Of Emission Discharged : 431224.99 m³/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters,(PM)	mg/Nm ³	19.7	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide,(CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide,(CO ₂)	%v/v	<1.0	IS: 13270: 2008
6	Oxygen,(O ₂)	%v/v	13.4	IS: 13270: 2008
7	Zinc,(Zn)	mg/Nm ³	< 0.05	USEPA 6010D



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Pushkar Mittal
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TEST REPORT

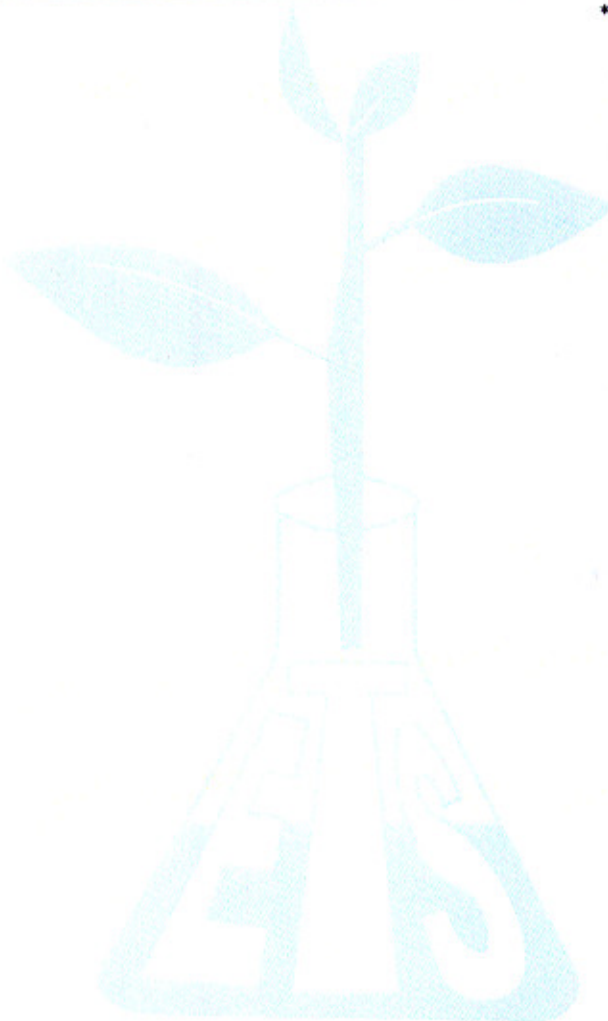
TEST REPORT NO.: ETS/2132/07/2023

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Test Method
8	Acid Mist (HCL)	mg/Nm ³	<0.02	Volumetric Method

*****End of Test Report*****



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Pushkar Mittal
Lab In-charge

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TEST REPORT

TEST REPORT NO.: ETS/2133/07/2023

URLNO.TC877123000002133F

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 26.07.2023
Analysis Start Date : 26.07.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 30.0 MIN
Sample ID No. : 2133
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : GP -1 (RTF)
Capacity Of Stack :
Quantity Of Fuel Used :
Type Of Fuel Used : L.N.G
Stack Height Above Ground : 25.0 MTR.
Stack Dia At The Top : 700.0 MM
Material Of Construction : M.S
Attached APCS :
Normal Operating Schedule : 24.0 HOURS PER DAY
Ambient Temperature : 38.0°C
Flue Gas Temperature : 196.0°C
Velocity Of Flue Gases : 12.6 MTR./SEC.
Quantity Of Emission Discharged : 17447.72 m³/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters,(PM)	mg/Nm ³	26.82	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide,(CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide,(CO ₂)	%v/v	<1.0	IS: 13270: 2008
6	Oxygen,(O ₂)	%v/v	10.2	IS: 13270: 2008
7	Lead,(Pb)	mg/Nm ³	< 0.05	USEPA 6010D
8	Zinc,(Zn)	mg/Nm ³	0.37	USEPA 6010D

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TEST REPORT

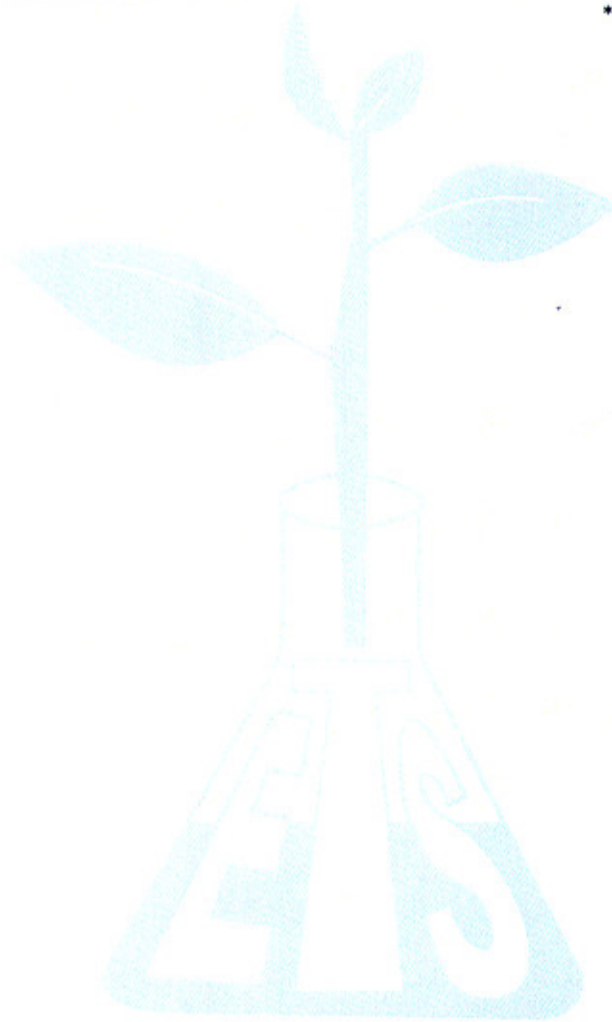
TEST REPORT NO.: ETS/2133/07/2023

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Test Method
9	Acid Mist (HCL)	mg/Nm ³	<0.02	Volumetric Method

*****End of Test Report*****



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Page 2 of 2

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[Signature]
AUTHORIZED SIGNATORY
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TC-8771



TEST REPORT

TEST REPORT NO.: ETS/2134/07/2023 URLNO.TC877123000002134F DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 26.07.2023
Analysis Start Date : 26.07.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 30.0 MIN
Sample ID No. : 2134
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : GP -1 (HAG)
Capacity Of Stack :
Quantity Of Fuel Used :
Type Of Fuel Used : L.N.G
Stack Height Above Ground : 5.0 MTR.
Stack Dia At The Top : 500.0 MM
Material Of Construction : M.S
Attached APCS :
Normal Operating Schedule : 24.0 HOURS PER DAY
Ambient Temperature : 38.0°C
Flue Gas Temperature : 154.0°C
Velocity Of Flue Gases : 11.3 MTR./SEC.
Quantity Of Emission Discharged : 7983.45 m³/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters,(PM)	mg/Nm ³	21.6	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide,(CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide,(CO ₂)	%v/v	<1.0	IS: 13270: 2008
6	Oxygen,(O ₂)	%v/v	11.5	IS: 13270: 2008
7	Zinc,(Zn)	mg/Nm ³	0.42	USEPA 6010D

*****End of Test Report*****



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For Enviro-Tech Services

AUTHORIZED SIGNATORY
Pushkar Mittal
Lab In-charge

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TEST REPORT NO.: ETS/2135/07/2023 URLNO.TC877123000002135F DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4,SITE-IV,SAHIBABAD INDUSTRIAL AREA,SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 26.07.2023
Analysis Start Date : 26.07.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 30.0 MIN
Sample ID No. : 2135
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : ARP - I
Capacity Of Stack : --
Quantity Of Fuel Used : ---
Type Of Fuel Used : L.N.G
Stack Height Above Ground : 27.5 MTR.
Stack Dia At The Top : 600.0 MM
Material Of Construction : F.R.P
Attached APCS :
Normal Operating Schedule : AS PER REQUIREMENTS
Ambient Temperature : 38.0°C
Flue Gas Temperature : 98.0°C
Velocity Of Flue Gases : 12.5 MTR./SEC.
Quantity Of Emission Discharged : 12717.00 m³/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters,(PM)	mg/Nm ³	21.6	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide,(CO)	%v/v	<0.1	IS: 13270
5	Carbon Dioxide,(CO ₂)	%v/v	<1.0	IS: 13270
6	Oxygen,(O ₂)	%v/v	12.8	IS: 13270



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TEST REPORT

TEST REPORT NO.: ETS/2135/07/2023

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Test Method
7	Zinc, (Zn)	mg/Nm ³	< 0.05	ETS/STP/STACK-08
8	Acid Mist (HCL)	mg/Nm ³	<0.02	Volumetric Method

*****End of Test Report*****



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TEST REPORT

TEST REPORT NO.: ETS/2136/07/2023 URLNO.TC877123000002136F DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LIMITED
23/4, SITE-IV, SAHIBABAD INDUSTRIAL AREA, SAHIBABAD
GHAZIABAD U.P.

Date Of Sampling : 26.07.2023
Analysis Start Date : 26.07.2023
Analysis End Date : 28.07.2023
Duration Of Sampling : 60.0 MIN
Sample ID No. : 2136
Sampling Done By : ETS STAFF
Sampling Method : ETS/STP/STACK-01
Stack Attached To : ARP - II
Capacity Of Stack : --
Quantity Of Fuel Used : ---
Type Of Fuel Used : L.N.G
Stack Height Above Ground : 27.5 MTR.
Stack Dia At The Top : 600.0 MM
Material Of Construction : F.R.P
Attached APCS :
Normal Operating Schedule : 24.0 HOURS PER DAY
Ambient Temperature : 38.0°C
Flue Gas Temperature : 94.0°C
Velocity Of Flue Gases : 11.4 MTR./SEC.
Quantity Of Emission Discharged : 11597.90 m³/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters, (PM)	mg/Nm ³	27.8	IS-11255 (Part-1)
2	Sulphur Dioxide, (SO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen, (NOX as NO ₂)	mg/Nm ³	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide, (CO)	%v/v	<0.1	IS: 13270
5	Carbon Dioxide, (CO ₂)	%v/v	<1.0	IS: 13270
6	Oxygen, (O ₂)	%v/v	11.3	IS: 13270
7	Zinc, (Zn)	mg/Nm ³	< 0.05	USEPA 6010D



Page 1 of 2

For Enviro-Tech Services

AUTHORIZED SIGNATORY
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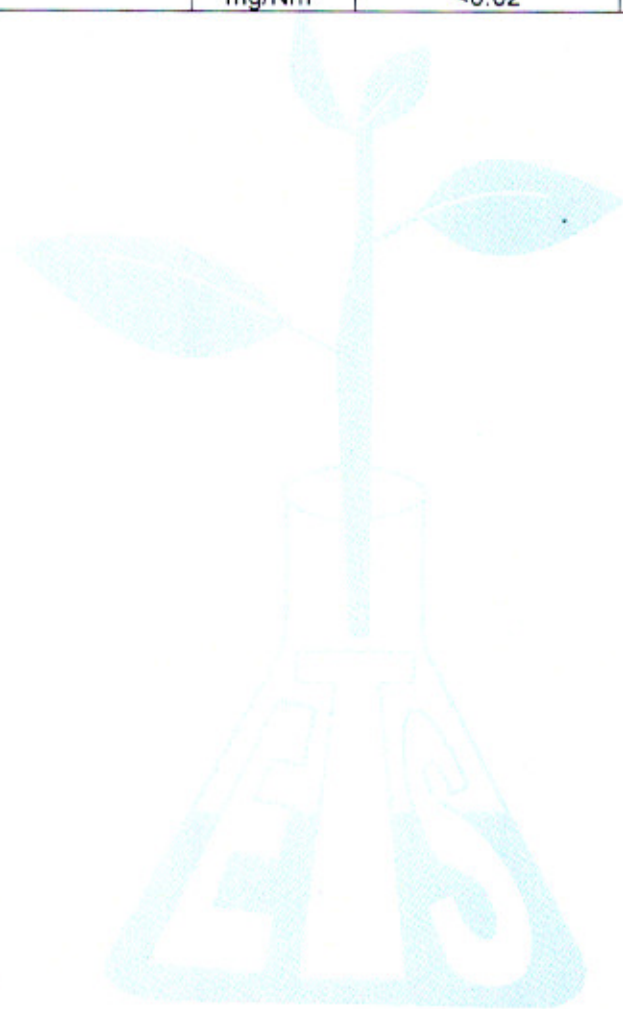
TEST REPORT NO.: ETS/2136/07/2023

DATE OF REPORT: 28.07.2023

STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Test Method
8	Acid Mist (HCL)	mg/Nm ³	<0.02	Volumetric Method

*****End of Test Report*****



Page 2 of 2

CHECKED BY
SHRADDHA GUPTA

Format No ETS/LAB/TR-05, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.



UTTAR PRADESH POLLUTION CONTROL BOARD
Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

CONSENT ORDER

Ref No. -
97147/UPPCB/Ghaziabad(LAB)/CTO/water/GH
AZIABAD/2020

Dated : 22/12/2020

To ,

Shri RAJEEV SINGHAL

M/s TATA STEEL BSL LIMITED

Plot no - 23/4 Site-4, Sahibabad Industrial area, Sahibabad, Ghaziabad, Uttar

Pradesh.,GHAZIABAD,201010

GHAZIABAD

Sub : Consent under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974 (as amended) for discharge of effluent to M/s. TATA STEEL BSL LIMITED

Reference Application No :8882210

Dated :22/12/2020

1. For disposal of effluent into water body or drain or land under The Water (Prevention and control of Pollution) Act,1974 as amended (here in after referred as the act) M/s. TATA STEEL BSL LIMITED is hereby authorized by the board for discharge of their industrial effluent generated through ETP for irrigation/river through drain and disposal of domestic effluent through septic tank/soak pit subject to general and special conditions mentioned in the annexure ,in reference to their foresaid application .
2. This consent is valid for the period from 24/06/2020 to 31/12/2024 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 27(2) of the Water (Prevention and Control of Pollution) Act, 1974 as amended .

This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

C.E.O

C-1

Enclosed : As above
(condition of consent):

Copy to: Regional Office, U.P. Pollution Control Board, Ghaziabad

C.E.O

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U.P. POLLUTION CONTROL BOARD, LUCKNOW

Annexure to Consent issued to M/s.TATA STEEL BSL LIMITED vide

Consent Order No. 8882210/ Water

Dated : 22/12/2020

CONDITIONS OF CONSENT

1. This consent is valid only for the approved production capacity of COLD ROLLED STRIPS & SHEETS 1250 MT/day and GALVANIZED PLAIN / CORRUGATED SHEETS 1250 MT/day.
2. The quantity of maximum daily effluent discharge should not be more than the following :

Effluent Discharge Details			
S.No	Kind of Effluent	Maximum daily discharge,KL/day	Treatment facility and discharge point
1	Domestic	60 KLD	STP
2	Industrial	800 KLD	ETP

3. Arrangement should be made for collection of water used in process and domestic effluent separately in closed water supply system. The treated domestic and industrial effluent if discharged outside the premises, if meets at the end of final discharge point, arrangement should be made for measurement of effluent and for collecting its sample. Except the effluent informed in the application for consent no other effluent should enter in the said arrangements for collection of effluent. It should also be ensured that domestic effluent should not be discharged in storm water drain .
- 4(a) The domestic effluent should be treated in treatment plant so that the should be in conformity with the following norms dated treated effluent .

Domestic Effluent		
S.No	Parameter	Standard
1	Quantity of Discharge	60 KLD
2	Total Suspended Solids	As per E.P Rules 1986
3	BOD	As per E.P Rules 1986
4	COD	As per E.P Rules 1986
5	Oil & Grease	As per E.P Rules 1986

- 4(b). The industrial effluent should be treated in treatment plant so that the treated effluent should be in conformity with the following norms. .

Industrial Effluent		
S.No	Parameter	Standard
1	Total Suspended Solids	As per E.P Rules 1986
2	BOD	As per E.P Rules 1986
3	COD	As per E.P Rules 1986
4	Oil & Grease	As per E.P Rules 1986
5	Quantity of Discharge	800 KLD

5. Effluent generated in all the processes, bleed water, cooling effluent and the effluent generated from washing of floor and equipments etc should be treated before its disposal with treated industrial effluent so that it should be according to the norms prescribed under The Environment (Protection) Act,1986 or otherwise mandatory .
6. The other pollutant for which norms have not been prescribed, the same should not be more than the norms prescribed for the water used in manufacturing process of the industry .
7. The method for collecting industrial and domestic effluent and its analysis should be as per legal Indian standards and its subsequent amendments/standards prescribed under The Environment (Protection) Act, 1986.

8. The treated domestic and industrial effluent be mixed (as per the provisions of Condition No. 2) and disposed of on one disposal point. This common effluent disposal point should have arrangement for flow meter/V Notch for measuring effluent and its log book be maintained .
9. The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

Specific Conditions:

- 1- This consent is valid only for products and quantity mentioned above. Industry shall obtain prior approval before making any modification in product/process /fuel/ Plant machinery failing which consent would be deemed void.
- 2- The industry shall comply with various provisions of Air (Prevention and Control of Pollution) Act 1981 as amended, Water (Prevention and Control of Pollution) Act 1974 as amended and all other applicable rules notified under E.P. Act 1986.
- 3- The industry shall dispose the hazardous waste through authorized recyclers/TSDf and comply with the provisions of Hazardous and Other Wastes (Management and Trans-boundary Movement) Amendment Rules, 2016 as amended.
- 4- The industry should be operated in such a way so that there is no adverse impact on public and environment.
- 5- The industry shall submit quarterly monitoring reports of treated effluent from a certified / approved laboratory under E.P. Act 1986
- 6- The industry will ensure the continuous and uninterrupted data supply from the OCEEMS to the CPCB server. The unit shall maintain strict supervision on fluctuations in operating parameters with respect to each treatment unit of the Effluent treatment plant.
- 7- The industry should ensure the operation of the ETP in such a manner that it confirm the standards lay down under the E.P. Rules 1986
- 8- The treated effluent shall be allowed to be discharged in the ambient environment only after exhausting options for reuse in industrial process/ irrigation in order to minimize freshwater usage.
- 9- Electromagnetic Flow meter to be installed in all water abstraction points and usage of fresh water to be minimized.
- 10- The industry shall obtain No Objection Certificate (NOC) from the CGWA or the competent authority for abstraction of groundwater within six months failing which this CTO shall stand automatically revoked.
- 11- The industry shall submit the point wise compliance report of the conditions imposed in the CTO issued by the Board for year 2019 and audited balance sheet for the current year and the details of fees deposited during last three years within a month otherwise this CTO may be revoked.
- 12- If the CPCB or UPPCB issues the Closure order against the industry this consent order stands automatically suspended for that period.
- 13- The industry shall submit Environmental Statement in prescribed form V as per rule no.14 of E.P Rules 1986.
- 14- The Industry shall abide by orders / directions issued by Hon'ble Supreme Court Hon'ble High Court, Hon'ble National Green Tribunal, Central Pollution Control Board and U.P Pollution Control Board for protection and safeguard of environment from time to time.
- 15- The industry shall develop proper green belt and rain water harvesting system as per guidelines. For green belt at least 8 feet height plants should be planted which shall be properly protected as proper irrigation and maneuvering arrangements shall be made. For the development of the green belt the guidelines issued vide Board office order no. H10405/220/2018/02 Dt. 16-02-2018 shall be complied.
- 16- The industry shall submit the copy of Certificate of Registration in compliance of the section no. 11 of The Uttar Pradesh Ground Water (Management and Regulation) Act, 2019 (U.P. Act No-13 of 2019) for existing users of ground water in notified areas within six months failing which this CTO shall stand automatically revoked.
- 17- The The Industry shall ensure the time bound compliance of stringent norms as published by the UPPCB vide office memorandum no.H48273/C-1/NGT-83/2020, dt. 27-02-2020 (available at URL uppcb.com/pdf/uppcb_28022020.pdf) in compliance of The Hon'ble NGT order dt. 14.11.2019 in O.A. no. 1038/2018.
18. The unit shall submit a detailed report within 3 months of operation on expanded capacity on the observation made during technical evaluation of CTO application alongwith which is as under "1- Operational water balance has not been verified during inspections. The monitored inputs and outputs in water balance structure still need to be identified, marked and interpreted appropriately. Water balance diagram needs to be structured accordingly and commented upon. 2- Total water consumption has to be categorized and verified during inspection which has not been done. 3- Similarly effluent discharges have not been measured appropriately and categorized. 4- As per the comment made in point 22 that "maximum treatment capacity of ETP is of 480 KLD. In that case the average discharge of approximately 350 KLD still does not utilized full hydraulic capacity of ETP " No comments on the impact of this deficit is made in the report. 5- Further, unit wise water pollution load reduction has not been verified whereas ETP comprises of various unit operations. 6- ETP inlet and outlet sample analysis dated 28-12-2019 presents error in analysis, since sample collection date and analysis start date have sufficient gaps. No comments on that is given in the report. Also concentration of pollutants reported are in decimals whereas analysis is said to be done as per offline standard methodology. Moreover, the situation becomes more precarious when based on such

analysis of ETP inlet and outlet the efficiency of ETP is calculated. 7- ETP efficiency as per the aforesaid analysis has been found to be just 10% for TSS removal , 22% BOD removal and 48% for COD removal. ETP inlet and outlet values indicates that there is no need of ETP as such. This discrepancy needs to be sorted out since the foundation of recommendation itself is very shaky on technical analysis terms. Therefore screen this fault seriously. ETP as such has just turned out to be a polishing unit rather than treatment unit. 8- STP analysis has not been done. 9- A perusal of different stack emission monitoring reports shows cumulative buildup of particulate matter in concentration in one premises itself in close vicinity. This concentration buildup is not reflected in ambient air quality monitoring. As far as achievement of standards is concerned emission factors first needs to be established and then compared to the standards which has not been done in this case. 10- Compute source air pollution load and give a comparison with finding of ambient air quality analysis so that the situation is adjudged accordingly.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .

C.E.O

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UTTAR PRADESH POLLUTION CONTROL BOARD
Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

CONSENT ORDER

Ref No. - 96499/UPPCB/Ghaziabad(LAB)/CTO/air/GHAZIABAD/2020

Dated : 22/12/2020

To ,

Shri RAJEEV SINGHAL

M/s TATA STEEL BSL LIMITED

Plot no - 23/4 Site-4, Sahibabad Industrial area, Sahibabad, Ghaziabad, uttar

Pradesh.,GHAZIABAD,201010

GHAZIABAD

Sub : Consent under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 (as amended) to M/s. TATA STEEL BSL LIMITED

Reference Application No. 8799665

Dated : 22/12/2020

1. With reference to the application for consent for emission of air pollutants from the plant of M/s TATA STEEL BSL LIMITED. under Air Act 1981. It is being authorised for said emissions, as per the standards, in environment, by the Board as per enclosed conditions .
2. This consent is valid for the period from 24/06/2020 to 31/12/2024 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 21 (6) of the Air (Prevention and Control of Pollution) Act, 1981 as amended.
This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

C.E.O
C-1

Enclosed : As above
(condition of consent):

Copy to: Regional Office, U.P. Pollution Control Board, Ghaziabad

C.E.O
C-1

U.P. Pollution Control Board

Dated : 22/12/2020

CONDITIONS OF CONSENT

1. This consent is valid only for the approved production capacity of COLD ROLLED STRIPS & SHEETS 1250 MT/day and GALVANIZED PLAIN / CORRUGATED SHEETS 1250 MT/day.
2. This consent is valid only for products and quantity mentioned above. Industry shall obtain prior approval before making any modification in product/ process /fuel/ plant machinery failing which consent would be deemed void.
- 3(a) The maximum rate of emission of flue gas should not be more than the emission norms for the stacks.
- 3(b) Air Pollution Source Details.

Air Pollution Source Details					
S.No	Air Pollution Source	Type of Fuel	Stack No.	Parameters	Height
1	Pickling Section	process emission	1	Particulate Matter	27 mt. stack height from the G.L with 4 numbers wet scrubbers
2	Heating in galvanising line	LNG	2	Particulate Matter	47 mt. stack height from the G.L
3	2X 5 TPH Boiler	LNG	3	Sulphur Dioxide	47 mt. stack height from the G.L
4	2X 10 TPH Boiler	LNG	4	Sulphur Dioxide	38 mt. stack from G.L
5	2X 12 MW D.G set	L.S.H.S	5,6	Sulphur Dioxide	Each minimum 105 mt. from the G.L

- 3(c) The emissions by various stacks into the environment should be as per the norms of the Board .

Emission Quality Details Detail			
S.No	Stack No	Parameter	Standard
1	1	Particulate Matter	As per E.P Rules 1986
2	2	Particulate Matter	As per E.P Rules 1986
3	3.4.5.6	Sulphur Dioxide	As per E.P Rules 1986

4. Quantity of other pollutants should also be as per the norms prescribed by the Board/MOEF & CC/or otherwise mandatory .
5. The equipment for air pollution control system and monitoring ,as proposed by the industry and approved by the Board should be installed in their premises itself .
6. The modification or installation in the existing pollution control equipments should be done only by prior approval of Board .
7. The operation of air pollution control system and maintenance be done in such a way that the quantity of pollutants should be in accordance with the standards prescribed by the Board/MoEF & CC/or otherwise mandatory .
8. Unit should do provisions for fugitive emissions chimney/stack as per the norms of the Board/MOEF & CC/or otherwise mandatory .

9. The unit should submit the stack emissions monitoring report within one month from issuance of consent order along with the point wise compliance report of the consent order . Further quarterly monitoring report should be submitted .

The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

Specific Conditions:

1. The industry should be operated in such a manner that it does not adversely affect the environment and the solid waste generated such as ash etc. be disposed in eco friendly manner.
2. Any source of emission other than that mentioned in the Air consent seeking application will not be permitted by the Board. The industry shall only use PNG as fuel once PNG pipeline is available in that industrial area.
3. The industry should ensure the operation of the air pollution control system (APCS) in such a manner that the air emission conforms with the standards prescribed under the E.P Act 1986 as amended and will ensure the continuous and uninterrupted data supply from the OCEEMS to the SPCB and CPCB server.
4. The industry shall submit the point wise compliance report of the conditions imposed in the CTE issued to the unit for the expansion in the production capacity and the audited balance sheet for the current year within two months otherwise this CTO may be revoked.
5. This consent is valid only for products and quantity mentioned above. Industry shall obtain prior approval before making any modification in product/ process /fuel/ plant machinery failing which consent would be deemed void.
6. The industry shall abide by orders / directions issued by Hon'ble Supreme court Hon'ble High Court, Hon'ble National Green tribunal, Central Pollution Control Board and U.P Pollution Control Board for protection and safe guard of environment from time to time.
7. The industry shall submit monitoring reports of all stacks and ambient air quality from a certified /approved laboratory under E.P. Act 1986.
8. The industry shall comply with various provisions of Air (Prevention and Control of Pollution) Act 1981 as amended, Water (Prevention and Control of Pollution) Act 1974 as amended and all other applicable rules notified under E.P. Act 1986.
9. The industry shall submit the details of fees deposited during last three years within a month.
10. The industry shall obtain prior consents in the event of any addition of new emission generation sources such as- Boiler/ Furnace/ Heaters/ D.G. Sets or alteration of existing emission sources in accordance with section- 21/22 of air Act 1981 (as amended respectively).
11. The use of Pet coke and Furnace oil as a fuel is restricted in compliance of the Hon'ble Supreme court order.
12. The Industry will use minimum 20% Bio Briquette as fuel in the Boiler depending upon its availability.
13. The Industry shall submit Environmental Statement in prescribed format as per rule no.14 as per E.P Rules 1986.
14. Minimum 33% of the land on which industry is established will be covered by the plantation of tall trees of suitable species as per the guidelines set up by the Board vide its Office Order no.H-16405/220/2018/02 dt. 16/02/2018. The copy of this guideline is available at URL http://www.uppcb.com/pdf/Green-Belt-Guidle_160218.pdf.
15. The Industry shall ensure the time bound compliance of stringent norms as published by the UPPCB vide office memorandum no.H48273/C-1/NGT-83/2020, dt. 27-02-2020 (available at URL www.uppcb.com/pdf/uppcb_28022020.pdf) in compliance of The Hon'ble NGT order dt. 14.11.2019 in O.A. no. 1038/2018.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .

C.E.O

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