



o/c

TSL/UPPCB/Form-V/2023/09-2
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 the year F.Y 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 -28, Site -4, Ind. Area, Sahibabad..


Signature

Executive Plant Head



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


Ro CEM
28/09/2023
REGIONAL OFFICE
U.P. Pollution Control Board
Sector-2, Vasundhara
Ghaziabad

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 Homi Mody Street Fort Mumbai 400001 India Tel 91 22 66658282 Fax 91 22 66657724
Corporate Identity Number L27100MH1907PLC000260 Website www.tatasteel.com



TSL/UPPCB/Form-V/2023/09-2
28th September 2023.

The Chief Environment Engineer (Circle-1)
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Signature


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FORM - V

(SEE RULE 14)

ENVIRONMENTAL STATEMENT

FOR

THE FINANCIAL YEAR ENDING

31ST MARCH 2023.

PRESENTED BY:

M/s. TATA STEEL LIMITED.
PLOT NO.-28, 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. 28/4, site- iv, Sahibabad industrial area, Sahibabad, Ghaziabad, (U.P).
ii.	Industry category	Orange
	Primary (STC Code),	Secondary Metallurgical Industry
	Secondary (STC Code)	Tube mill
iii.	Production capacity	Tube Making (Steel Pipes & Tube Making) = 10000 Mt/month (120000 MTPA). Production During 2022-23: Tube Making (Steel Pipes & Tube) = 4669 Mt/Month (56028 MTPA).
iv.	Year of Establishment	2001
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.-m3/day)	58	54
a)	Process Water / Cooling(m3/day)	32	28
b)	Domestic (m3/day)	24	23
c)	Others (m3/day)	2	3
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)
Tube Making (Pipes & Tube Making)	0.42 KL/Mt		0.36 KL/Mt
B-3: Raw Material Consumption			
Name of Raw material	Name of Product	Raw material consumption	
		During Previous Financial Year (2021-22)	During financial Year (2022-23)
CR & HR Coils	Tube Making (Pipes & tube Making)	51236 Mt	57061 Mt
GP coils		31.89 Mt	881 Mt
Cutting Oil		63840 Liter	44310 Liter

R.P. Oil		133890 Liter	149739 Liter
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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 2. COD 3. TSS 4. pH 5. O&G 6. Iron (as Fe)	30 250 100 5.5 -9.0 10 3	NA	ETP Treated water is followed by ZED and back for reuse. Hence No effluent discharge outside pf plant premises.	NA
Water (STP discharge)				
1. pH 2. O&G 3. BOD 4. COD 5. TSS	6.5-9.0 10 mg/L 20 mg/L 250 mg/L <50 mg/L	Zero STP water discharge	STP treated water is now being used in ZED. and back for reuse. Hence No effluent discharge outside pf plant premises	NA
Plant follows the Zero Liquid Discharge (ZLD) concept. Generated wastewater is treated and reused in the plant itself.				
C-2: Air Pollution				
Pollutant Parameters	Prescribed Standard (mg/Nm ³)	Quantity of pollutants Discharged (kg/d)	Concentration of pollutants Discharged (kg/d)	Percentage variation from prescribed standards with reasons.
NA	NA	NA	NA	NA

A) Ambient Air Quality	Plant Locations				
	RO Plant area	Temple area	Near cooling tower area	Main Gate Area	Limit
PM 10	89.60	82.30	85.90	90.70	100
PM 2.5	34.10	25.50	33.20	37.10	60
SO2	19.30	13.00	12.00	23.00	80
NO2	28.00	27.10	32.60	30.50	80

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
Waste cutting oil	256.82	257.21
Waste residue containing oil	Nil	Nil
Cotton waste	Nil	4.20
Spent oil	Nil	Nil
D-2: From pollution control facilities		
NA.	NA	NA

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
Scrap	1718	1018
E-2: Generation from Pollution Control Facility		
Name	Total Quantity (tons)	
	During the previous financial Year 2021-22	During the current financial Year 2022-23
NA	NA	NA
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
(a) NIL	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
NIL	NA	NA
E-3.2: Sold		
	Total Quantity (tons)	

Name	During the current financial Year 2021-22	During the current financial Year 2022-23
NIL	NIL	NIL
E-3.3: Disposed		
	Total Quantity (tons)	
Name	During the current financial Year 2021-22	During the current financial Year 2022-23
Industrial Garbage	241.42	75.11

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
NA	NA	NA
NA	NA	NA
NA	NA	NA
NA	NA	NA

F-2: Solid Wastes

1.	NA	NA
2.	NA	NA

The APCS dust has been not generated as furnaces were dismantled and henceforth requisite facility had not required. We are at present falling under the **orange category** of Industry and there has been deployment of state of art technology for the cut down the any emission and discharge henceforth significant control on pollution as well as abetment at our premises.

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.

PLEASE SPECIFY THE CHARACTERISTICS (IN TERMS OF CONCENTRATION AND QUANTUM) OF HAZARDOUS AS WELL AS SOLID WASTES AND INDICATE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WASTES.

Effluent characteristic & source of effluent:

For this industry, Effluent is not generated so there is no need of Effluent Treatment Plant. For the domestic water treatment there is STP of modular MBBR type to treat all the domestic sludge of capacity 20 KLD. After the treatment water quality is permissible limit and regularly the treated water quality has been monitored by Third party approved lab. Treated water is being used for gardening purpose at inside the premises.



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

Steps taken by Tata steel Sahibabad to continuously improve in making Environment non-pollutant:-

We have installed Suction Hood Systems for dust and smoke, which is technically feasible solution to improve in making environment non- polluting and that is as follows. To arrest the fugitive emission at Strand mills of tube, 6 Nos of Fume Extraction system of MS CSF has been installed with the capacity of 4000 Cmh.



ZLD (Zero liquid discharge)-

Tube plant at Sahibabad have been granted Consent to Operate by the UP-Pollution Control Board (UPPCB), wherein there are many conditions to comply. However, one of the conditions is to maintain **Zero Liquid Discharge (ZLD)**. Zero liquid discharge is a sustainable wastewater management strategy that emphasizes on proper treatment of industrial trade effluent to recycle and reuse the treated effluent within the plant completely resulting no trade effluent to leave the plant boundary.



PART- H & I

ADDITIONAL INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION AND ABATEMENT OF POLLUTION.

The management has invested more than 2 crores to put up upgraded technology for Rainwater harvesting at the tube division with two nos of piezometric well has been installed for the monitoring of ground water development. Two nos. of ponds have been taken to enhance the ground water recharge facility.

We have invested more than 1 Crore rupees per year under operation of ZED to recycle and reuse of wastewater in plant operation.

A evaporation pond to be developed at the tube premises to maximize the reuse of water.

IMPROVING THE QUALITY OF ENVIRONMENT

We have already developed a green belt area. Further, we have planted trees around plant and other surrounding area. Good housekeeping and proper Control Measures are adopted regularly in keeping industry neat and clean.

We have kept open any investment proposal for pollution abatement in future. The Industry has developed for re-charge of Ground water by adopting village ponds to increase the ground water level with an investment of around 1.5 crore. We have successfully commissioned the Rainwater harvesting system and on top green cover has been developed.



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

Industry has investment approx. 6 Crore rupees to minimize Air as well as Water Pollution of surrounding industrial area. In order to meet the requirement DG set stack height to be increased as per the CPCB guidelines. We have installed fume mist extraction system at all tube mills to further cut down the fugitive emission. ZED Zero effluent discharge facility has been implemented and operational at the Tata Steel Sahibabad tube division.

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TEST REPORT

TEST REPORT NO.: ETS/1082-1/07/2023 URLNO.TC877123000010821F DATE OF REPORT: 10.07.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LTD.
(TUBE PLANT), 28/4,SITE-IV,SAHIBABAD
INDUSTRIAL AREA,SAHIBABAD GHAZIABAD U.P.

Date of Monitoring : 05.07.2023
Analysis Start Date : 06.07.2023
Analysis End Date : 10.07.2023
Duration Of Monitoring : 05.07.2023 To 06.07.2023
Time Of Monitoring : 11.00 AM To 11.00 AM (CO & O₃ for 1.0 Hrs.)
Sample ID No : 1082-1
Sampling Done By : ETS STAFF
Sampling Location : NEAR MAIN GATE
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL
Weather Condition : CLOUDY Ambient Temperature: 35.0 °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	90.7	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters,(PM _{2.5})	µg/m ³	37.1	For 24 Hrs.=60	IS 5182 (Part-24)
3	Sulphur Dioxide, (SO ₂)	µg/m ³	23.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide,(NO ₂)	µg/m ³	30.5	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)



Note:-

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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



TEST REPORT

TEST REPORT NO.: ETS/1082-1/07/2023

DATE OF REPORT: 10.07.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
8	Benzene, (C ₆ H ₆)	µg/m ³	<1.0	For 24 Hrs.=5	IS 5182 (Part-11)
9	Carbon Monoxide, (CO)	mg/m ³	0.72	For 1 Hrs.=4	IS 5182 (Part-10)
10	Benzo (a) Pyrene (BaP)	ng/m ³	<0.05	For Annual=01	IS 5182 (Part-12)
11	Arsenic, (As)	ng/m ³	<1.0	For Annual=06	IS 5182 (Part-22)
12	Nickel, (Ni)	ng/m ³	<1.0	For Annual=20	CPCB, Vol.-1, Pg.-48

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



Page 2 of 2

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

Quality Manager

Format No ETS/LAB/TR-01, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO.: ETS/1082-2/07/2023 URLNO.TC877123000010822F DATE OF REPORT: 10.07.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LTD.
(TUBE PLANT), 28/4,SITE-IV,SAHIBABAD
INDUSTRIAL AREA,SAHIBABAD GHAZIABAD U.P.

Date of Monitoring : 05.07.2023
Analysis Start Date : 06.07.2023
Analysis End Date : 10.07.2023
Duration Of Monitoring : 05.07.2023 To 06.07.2023
Time Of Monitoring : 11.10 AM To 11.10 AM (CO & O₃ for 1.0 Hrs.)
Sample ID No : 1082-2
Sampling Done By : ETS STAFF
Sampling Location : NEAR R.O PLANT.AREA
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL
Weather Condition : CLOUDY Ambient Temperature: 35.0 °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	89.6	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters,(PM _{2.5})	µg/m ³	34.1	For 24 Hrs.=60	IS 5182 (Part-24)
3	Sulphur Dioxide, (SO ₂)	µg/m ³	19.3	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide,(NO ₂)	µg/m ³	28.0	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

For ENVIRO-TEGH SERVICES

AUTHORIZED SIGNATORY
MD HUMRAJ
Quality Manager

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TEST REPORT

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DATE OF REPORT: 10.07.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
8	Benzene, (C ₆ H ₆)	µg/m ³	<1.0	For 24 Hrs.=5	IS 5182 (Part-11)
9	Carbon Monoxide, (CO)	mg/m ³	0.67	For 1 Hrs.=4	IS 5182 (Part-10)
10	Benzo (a) Pyrene (BaP)	ng/m ³	<0.05	For Annual=01	IS 5182 (Part-12)
11	Arsenic, (As)	ng/m ³	<1.0	For Annual=06	IS 5182 (Part-22)
12	Nickel, (Ni)	ng/m ³	<1.0	For Annual=20	CPCB, Vol.-1, Pg.-48

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

Page 2 of 2



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY,
Quality Manager

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TEST REPORT

TEST REPORT NO.: ETS/1082-3/07/2023 URLNO.TC877123000010823F DATE OF REPORT: 10.07.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LTD.
(TUBE PLANT), 28/4,SITE-IV,SAHIBABAD
INDUSTRIAL AREA,SAHIBABAD GHAZIABAD U.P.

Date of Monitoring : 05.07.2023
Analysis Start Date : 06.07.2023
Analysis End Date : 10.07.2023
Duration Of Monitoring : 05.07.2023 To 06.07.2023
Time Of Monitoring : 11.20 AM To 11.20 AM (CO & O₃ for 1.0 Hrs.)
Sample ID No : 1082-3
Sampling Done By : ETS STAFF
Sampling Location : NEAR COOLING TOWER AREA NO-03
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL
Weather Condition : CLOUDY Ambient Temperature: 35.0 °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	85.9	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters,(PM _{2.5})	µg/m ³	33.2	For 24 Hrs.=60	IS 5182 (Part-24)
3	Sulphur Dioxide, (SO ₂)	µg/m ³	12.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide,(NO ₂)	µg/m ³	32.6	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	18.0	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

For ENVIRO-TECH SERVICES

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MD. HUMRAJ
Quality Manager

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TEST REPORT

TEST REPORT NO.: ETS/1082-3/07/2023

DATE OF REPORT: 10.07.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
8	Benzene, (C ₆ H ₆)	µg/m ³	<1.0	For 24 Hrs.=5	IS 5182 (Part-11)
9	Carbon Monoxide, (CO)	mg/m ³	0.63	For 1 Hrs.=4	IS 5182 (Part-10)
10	Benzo (a) Pyrene (BaP)	ng/m ³	<0.05	For Annual=01	IS 5182 (Part-12)
11	Arsenic, (As)	ng/m ³	<1.0	For Annual=06	IS 5182 (Part-22)
12	Nickel, (Ni)	ng/m ³	<1.0	For Annual=20	CPCB, Vol.-1, Pg.-48

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

Page 2 of 2



For ENVIRO-TECH SERVICES

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TC-8771



TEST REPORT

TEST REPORT NO.: ETS/1082-4/07/2023 URLNO.TC877123000010824F DATE OF REPORT: 10.07.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LTD.
(TUBE PLANT), 28/4, SITE-IV, SAHIBABAD
INDUSTRIAL AREA, SAHIBABAD GHAZIABAD U.P.

Date of Monitoring : 05.07.2023
Analysis Start Date : 06.07.2023
Analysis End Date : 10.07.2023
Duration Of Monitoring : 05.07.2023 To 06.07.2023
Time Of Monitoring : 10.35 AM To 10.35 AM (CO & O₃ for 1.0 Hrs.)
Sample ID No : 1082-4
Sampling Done By : ETS STAFF
Sampling Location : NEAR TEMPLE AREA
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL
Weather Condition : CLOUDY Ambient Temperature: 35.0 °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	82.3	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters,(PM _{2.5})	µg/m ³	25.5	For 24 Hrs.=60	IS 5182 (Part-24)
3	Sulphur Dioxide, (SO ₂)	µg/m ³	13.0	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide,(NO ₂)	µg/m ³	27.1	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)



Page 1 of 2

For ENVIRO-TECH SERVICES

M. HUMRAJ
AUTHORIZED SIGNATORY
Quality Manager

Format No ETS/LAB/TR-01, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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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/1082-4/07/2023

DATE OF REPORT: 10.07.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
8	Benzene, (C ₆ H ₆)	µg/m ³	<1.0	For 24 Hrs.=5	IS 5182 (Part-11)
9	Carbon Monoxide, (CO)	mg/m ³	0.59	For 1 Hrs.=4	IS 5182 (Part-10)
10	Benzo (a) Pyrene (BaP)	ng/m ³	<0.05	For Annual=01	IS 5182 (Part-12)
11	Arsenic, (As)	ng/m ³	<1.0	For Annual=06	IS 5182 (Part-22)
12	Nickel, (Ni)	ng/m ³	<1.0	For Annual=20	CPCB, Vol.-1, Pg.-48

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



CHECKED BY
SHRADDHA GUPTA

Page 2 of 2

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
MDHUMRAJ
Quality Manager

Format No ETS/LAB/TR-01, 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/1082-5/07/2023 URLNO.TC877123000010825F DATE OF REPORT: 10.07.2023

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : TATA STEEL LTD.
(TUBE PLANT), 28/4, SITE-IV, SAHIBABAD
INDUSTRIAL AREA, SAHIBABAD GHAZIABAD U.P.

Date of Monitoring : 05.07.2023
Monitoring Start Date : 05.07.2023
Monitoring End Date : 06.07.2023
Duration Of Monitoring : 24 HOURS
Sample ID No : 1082-5
Monitoring Done By : ETS STAFF
Sampling Location : NEAR MAIN GATE SHED NO-01
Sampling Method : ETS/STP/NOISE-01
Category Of Area : INDUSTRIAL AREA

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Day Time Noise Level	Leq :dB (A)	65.1	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	57.3	70	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

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



Page 1 of 1

For ENVIRO-TECH SERVICES

MD NUMRAJ
AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-02, 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/1082-6/07/2023 URLNO.TC877123000010826F DATE OF REPORT: 10.07.2023

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : TATA STEEL LTD.
(TUBE PLANT), 28/4, SITE-IV, SAHIBABAD
INDUSTRIAL AREA, SAHIBABAD GHAZIABAD U.P.

Date of Monitoring : 05.07.2023
Monitoring Start Date : 05.07.2023
Monitoring End Date : 06.07.2023
Duration Of Monitoring : 24 HOURS
Sample ID No : 1082-6
Monitoring Done By : ETS STAFF
Sampling Location : TUBE MILL AREA SHED NO-02 & 03
Sampling Method : ETS/STP/NOISE-01
Category Of Area : INDUSTRIAL AREA

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Day Time Noise Level	Leq :dB (A)	70.4	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	58.9	70	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

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



Page 1 of 1

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
MD HUMRAJ
Quality Manager

Format No ETS/LAB/TR-02, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO.: ETS/1082-7/07/2023 URLNO.TC877123000010827F DATE OF REPORT: 10.07.2023

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : TATA STEEL LTD.
(TUBE PLANT), 28/4, SITE-IV, SAHIBABAD
INDUSTRIAL AREA, SAHIBABAD GHAZIABAD U.P.

Date of Monitoring : 05.07.2023
Monitoring Start Date : 05.07.2023
Monitoring End Date : 06.07.2023
Duration Of Monitoring : 24 HOURS
Sample ID No : 1082-7
Monitoring Done By : ETS STAFF
Sampling Location : CHILLER PLANT SHED NO-04
Sampling Method : ETS/STP/NOISE-01
Category Of Area : INDUSTRIAL AREA

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Day Time Noise Level	Leq :dB (A)	68.5	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	53.1	70	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

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

Page 1 of 1



For ENVIRO-TECH SERVICES
M. HUMRAJ
AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO.: ETS/1082-8/07/2023 URLNO.TC877123000010828F DATE OF REPORT: 10.07.2023

AMBIENT NOISE MONITORING REPORT

Name And Address of Customer : TATA STEEL LTD.
(TUBE PLANT), 28/4,SITE-IV,SAHIBABAD
INDUSTRIAL AREA,SAHIBABAD GHAZIABAD U.P.

Date of Monitoring : 05.07.2023
Monitoring Start Date : 05.07.2023
Monitoring End Date : 06.07.2023
Duration Of Monitoring : 24 HOURS
Sample ID No : 1082-8
Monitoring Done By : ETS STAFF
Sampling Location : CUTTING SECTION SHED NO-05
Sampling Method : ETS/STP/NOISE-01
Category Of Area : INDUSTRIAL AREA

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Day Time Noise Level	Leq :dB (A)	68.2	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	53.7	70	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

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



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SHRADDHA GUPTA

Page 1 of 1

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AUTHORIZED SIGNATORY
MD NUMRAJ
Quality Manager

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TC-8771



TEST REPORT

TEST REPORT NO.: ETS/1082-9/07/2023 URLNO.TC877123000010829F

DATE OF REPORT: 10.07.2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LTD.
(TUBE PLANT), 28/4,SITE-IV,SAHIBABAD
INDUSTRIAL AREA,SAHIBABAD GHAZIABAD U.P.

Date of Sampling : 05.07.2023

Analysis Start Date : 06.07.2023

Analysis End Date : 10.07.2023

Sample ID No : 1082-9

Sampling Done By : ETS STAFF

Sampling Description : DRINKING WATER

Sampling Location : FROM R.O. TAP

Sampling Method : ETS/STP/WATER-02

Sample Quantity : 2.0 + 0.5 Ltr

Packing Condition : SEALED

Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:10500: 2012)		Test Method
				Desirable	Permissible	
PHYSICAL & CHEMICAL PARAMETERS:-						
1	Colour	Hazen	< 5.0	5	15	APHA 2120-B
2	Odour	...	Agreeable	Agreeable	Agreeable	APHA 2150-B
3	Taste	...	Agreeable	Agreeable	Agreeable	APHA 2160-C
4	pH	...	7.14	6.5 - 8.5	No Relaxation	APHA 4500-H+
5	Turbidity	NTU	<1.0	1	5	APHA 2130-B
6	Fluoride,(F)	mg/L	<0.01	1	1.5	APHA 4500:(F)-D
7	Total Dissolved Solids,(TDS)	mg/L	109.0	500	2000	APHA 2540-C
8	Chlorine (Residual)	mg/L	<0.02	0.2	1	APHA 4500:(Cl)-B
9	Magnesium,(Mg)	mg/L	4.9	30	100	APHA 3500:(Mg)-B
10	Total Hardness,(CaCO ₃)	mg/L	43.0	200	600	APHA 2340-C
11	Calcium,(Ca)	mg/L	9.0	75	200	APHA 3500:(Ca)-B
12	Chloride,(Cl)	mg/L	17.0	250	1000	APHA 4500:(Cl)-B
13	Nitrate,(NO ₃)	mg/L	<0.1	45	No Relaxation	APHA 4500:(NO ₃)-B
14	Sulphate,(SO ₄)	mg/L	8.0	200	400	APHA 4500:(SO ₄)-E
HEAVY METALS:-						
15	Iron,(Fe)	mg/L	<0.05	1	No Relaxation	APHA-3120B
16	Copper,(Cu)	mg/L	<0.01	0.05	1.5	APHA 3120B
17	Manganese,(Mn)	mg/L	<0.01	0.1	0.3	APHA-3120B

Page 1 of 2

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SHRADDHA GUPTA

MD NUMRAJ
AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

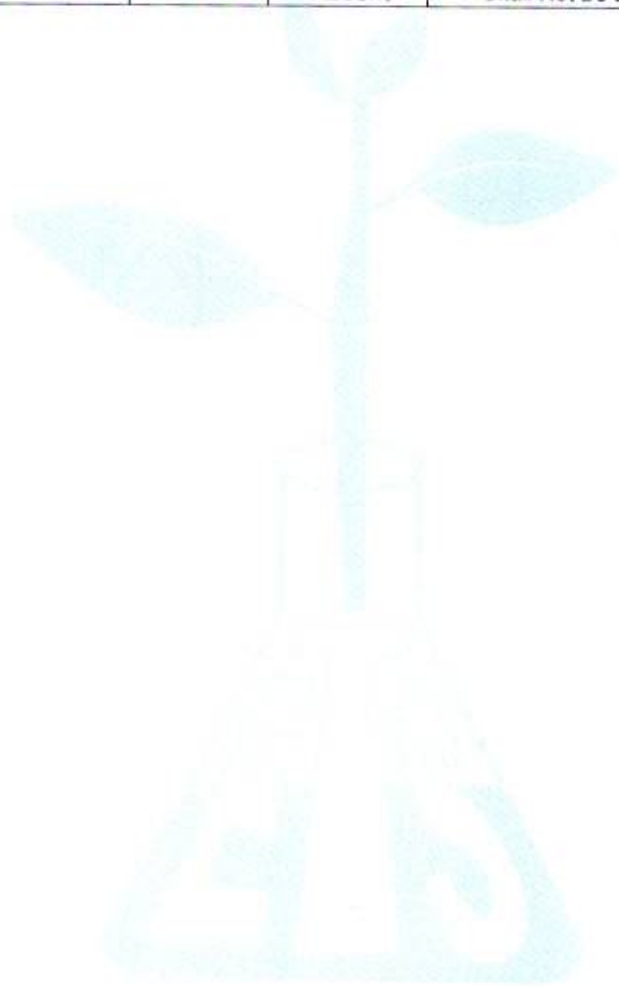
TEST REPORT NO.: ETS/1082-9/07/2023

DATE OF REPORT: 10.07.2023

WATER SAMPLE ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:10500: 2012)		Test Method
				Desirable	Permissible	
MICROBIOLOGICAL PARAMETER;						
18	Fecal Coliform (FC)	Per100mL	Absent	Shall Not Be Detectable		IS 15186
19	Escherichia coli	Per100mL	Absent	Shall Not Be Detectable		IS 15185

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



Page 2 of 2

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
MD HUMRAJ
Quality Manager

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ETS-LAB



TEST REPORT

TEST REPORT NO.: ETS/1082-10/07/2023 URL NO. TC877123000108210F DATE OF REPORT: 10.07.2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LTD.
(TUBE PLANT), 28/4, SITE-IV, SAHIBABAD
INDUSTRIAL AREA, SAHIBABAD GHAZIABAD U.P.

Date of Sampling : 05.07.2023

Analysis Start Date : 06.07.2023

Analysis End Date : 10.07.2023

Sample ID No : 1082-10

Sampling Done By : ETS STAFF

Sampling Description : GROUND WATER

Sampling Location : FROM BOREWELL NO-01

Sampling Method : ETS/STP/WATER-02

Sample Quantity : 2.0 + 0.5 Ltr

Packing Condition : SEALED

Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:10500: 2012)		Test Method
				Desirable	Permissible	
PHYSICAL & CHEMICAL PARAMETERS:						
1	Colour	Hazen	< 5.0	5	15	APHA 2120-B
2	Odour	...	Agreeable	Agreeable	Agreeable	APHA 2150-B
3	Taste	...	Salty	Agreeable	Agreeable	APHA 2160-C
4	pH	...	7.38	6.5 - 8.5	No Relaxation	APHA 4500-H+
5	Turbidity	NTU	5.0	1	5	APHA 2130-B
6	Fluoride, (F)	mg/L	0.13	1	1.5	APHA 4500:(F)-D
7	Total Dissolved Solids, (TDS)	mg/L	2577.0	500	2000	APHA 2540-C
8	Chlorine (Residual)	mg/L	<0.1	0.2	1	APHA 4500:(Cl)-B
9	Magnesium, (Mg)	mg/L	80.8	30	100	APHA 3500:(Mg)-B
10	Total Hardness, (CaCO ₃)	mg/L	717.0	200	600	APHA 2340-C
11	Calcium, (Ca)	mg/L	152.0	75	200	APHA 3500:(Ca)-B
12	Chloride, (Cl)	mg/L	834.0	250	1000	APHA 4500:(Cl)-B
13	Nitrate, (NO ₃)	mg/L	1.14	45	No Relaxation	APHA 4500:(NO ₃)-B
14	Sulphate, (SO ₄)	mg/L	40.0	200	400	APHA 4500:(SO ₄)-E
HEAVY METALS:-						
15	Iron, (Fe)	mg/L	0.17	1	No Relaxation	APHA-3120B
16	Copper, (Cu)	mg/L	<0.01	0.05	1.5	APHA 3120B
17	Manganese, (Mn)	mg/L	<0.01	0.1	0.3	APHA-3120B



Page 1 of 2

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

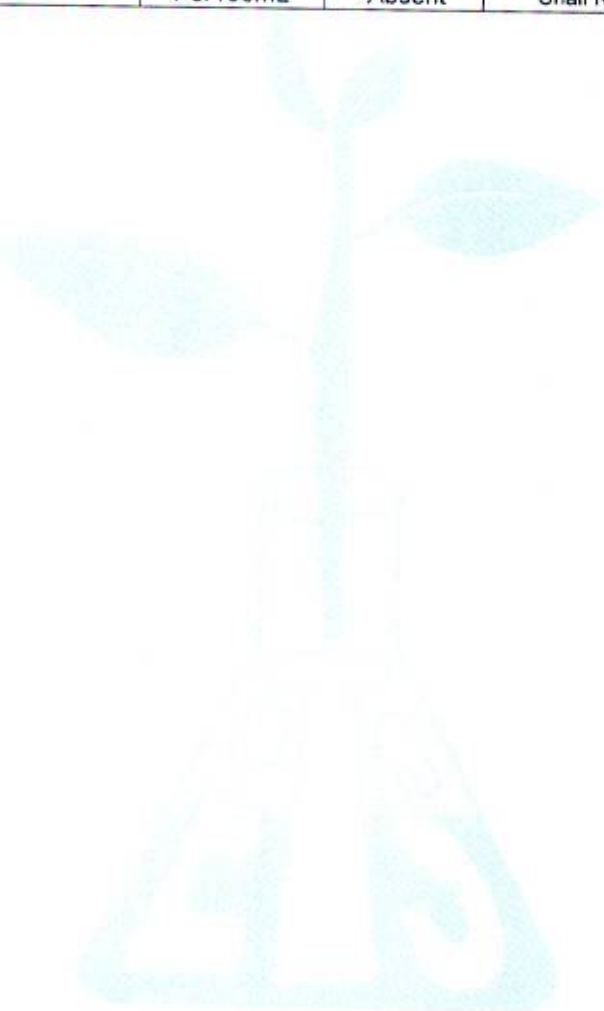
TEST REPORT NO.: ETS/1082-10/07/2023

DATE OF REPORT: 10.07.2023

WATER SAMPLE ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:10500: 2012)		Test Method
				Desirable	Permissible	
MICROBIOLOGICAL PARAMETER;						
18	Fecal Coliform (FC)	Per100mL	Absent	Shall Not Be Detectable		IS 15186
19	Escherichia coli	Per100mL	Absent	Shall Not Be Detectable		IS 15185

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



Page 2 of 2

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
MO. HUMRAJ
Quality Manager

Format No ETS/LAB/TR-09, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO.: ETS/1082-11/07/2023

URLNO.TC877123000108211F

DATE OF REPORT: 10.07.2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LTD.
(TUBE PLANT), 28/4,SITE-IV,SAHIBABAD
INDUSTRIAL AREA,SAHIBABAD GHAZIABAD U.P.

Date of Sampling : 05.07.2023

Analysis Start Date : 06.07.2023

Analysis End Date : 10.07.2023

Sample ID No : 1082-11

Sampling Done By : ETS STAFF

Sampling Description : GROUND WATER

Sampling Location : FROM BOREWELL NO-02

Sampling Method : ETS/STP/WATER-02

Sample Quantity : 2.0 + 0.5 Ltr

Packing Condition : SEALED

Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:10500: 2012)		Test Method
				Desirable	Permissible	
PHYSICAL & CHEMICAL PARAMETERS;						
1	Colour	Hazen	< 5.0	5	15	APHA 2120-B
2	Odour	...	Agreeable	Agreeable	Agreeable	APHA 2150-B
3	Taste	...	Salty	Agreeable	Agreeable	APHA 2160-C
4	pH	...	7.44	6.5 - 8.5	No Relaxation	APHA 4500-H+
5	Turbidity	NTU	5.0	1	5	APHA 2130-B
6	Fluoride,(F)	mg/L	0.13	1	1.5	APHA 4500:(F)-D
7	Total Dissolved Solids,(TDS)	mg/L	2883.7	500	2000	APHA 2540-C
8	Chlorine (Residual)	mg/L	<0.1	0.2	1	APHA 4500:(Cl)-B
9	Magnesium,(Mg)	mg/L	91.9	30	100	APHA 3500:(Mg)-B
10	Total Hardness,(CaCO ₃)	mg/L	733.0	200	600	APHA 2340-C
11	Calcium,(Ca)	mg/L	140.0	75	200	APHA 3500:(Ca)-B
12	Chloride,(Cl)	mg/L	897.0	250	1000	APHA 4500:(Cl)-B
13	Nitrate,(NO ₃)	mg/L	1.62	45	No Relaxation	APHA 4500:(NO ₃)-B
14	Sulphate,(SO ₄)	mg/L	43.0	200	400	APHA 4500:(SO ₄)-E
HEAVY METALS;-						
15	Iron,(Fe)	mg/L	0.19	1	No Relaxation	APHA-3120B
16	Copper,(Cu)	mg/L	<0.01	0.05	1.5	APHA 3120B
17	Manganese,(Mn)	mg/L	<0.01	0.1	0.3	APHA-3120B



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



TEST REPORT

TEST REPORT NO.: ETS/1082-11/07/2023

DATE OF REPORT: 10.07.2023

WATER SAMPLE ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:10500: 2012)		Test Method
				Desirable	Permissible	
MICROBIOLOGICAL PARAMETER;						
18	Fecal Coliform (FC)	Per100mL	Absent	Shall Not Be Detectable		IS 15186
19	Escherichia coli	Per100mL	Absent	Shall Not Be Detectable		IS 15185

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



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SHRADDHA GUPTA

Page 2 of 2

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Format No ETS/LAB/TR-09, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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ENVIRO-TECH SERVICES

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TC-8771



TEST REPORT

TEST REPORT NO.: ETS/1082-12/07/2023 URLNO.TC877123000108212F DATE OF REPORT: 10.07.2023

WORK ZONE MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LTD.
(TUBE PLANT), 28/4, SITE-IV, SAHIBABAD
INDUSTRIAL AREA, SAHIBABAD GHAZIABAD U.P.

Date of Monitoring : 05.07.2023

Analysis Start Date : 06.07.2023

Analysis End Date : 10.07.2023

Duration Of Monitoring : 05.07.2023 To 05.07.2023 8 HOURS, TWA

Time Of Monitoring : 10.10 AM To 6.10 PM

Sample ID No : 1082-12

Sampling Done By : ETS STAFF

Sampling Location : TUBE MILL NO-01, SHED NO-01

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLOUDY Ambient Temperature: 35.0 °C

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per Factory Act.)	Test Method
1	Room Temperature	°C	30.5	Not Specified	ETS/STP/AIR-13
2	Relative Humidity,(RH)	%	55.7	Not Specified	ETS/STP/AIR-13



Page 1 of 2

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
MOHIT RAJ
Quality Manager

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

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TEST REPORT

TEST REPORT NO.: ETS/1082-12/07/2023

DATE OF REPORT: 10.07.2023

WORK ZONE MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per Factory Act.)	Test Method
3	Particulate Matters,(PM ₁₀)	mg/m ³	1.24	5,OSHA	IS: 5182 (Part-23)
4	Particulate Matters,(PM _{2.5})	µg/m ³	29.5	For 24 Hrs.=60, CPCB	IS: 5182 (Part-24)
5	Sulphur Dioxide,(SO ₂)	mg/m ³	0.037	5	IS: 5182 (Part-2)
6	Nitrogen Dioxide,(NO ₂)	mg/m ³	0.066	6	IS: 5182 (Part-6)
7	Carbon Monoxide,(CO)	mg/m ³	0.42	55	IS: 5182 (Part-10)
8	Ammonia,(NH ₃)	mg/m ³	<0.01	18	IS: 5182 (Part-25)
9	Oil Mist	mg/m ³	<0.01	5	Volumetric

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

Page 2 of 2



For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

INDU KUMAR
Quality Manager

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

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ETS-LAB

ENVIRO-TECH SERVICES

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TC-8771

TEST REPORT

TEST REPORT NO.: ETS/1082-13/07/2023 URLNO.TC877123000108213F DATE OF REPORT: 10.07.2023

WORK ZONE MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LTD.
(TUBE PLANT), 28/4,SITE-IV,SAHIBABAD
INDUSTRIAL AREA,SAHIBABAD GHAZIABAD U.P.

Date of Monitoring : 05.07.2023

Analysis Start Date : 06.07.2023

Analysis End Date : 10.07.2023

Duration Of Monitoring : 05.07.2023 To 05.07.2023 8 HOURS, TWA

Time Of Monitoring : 10.16 AM To 06.16 PM

Sample ID No : 1082-13

Sampling Done By : ETS STAFF

Sampling Location : SHED NO-02

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLOUDY Ambient Temperature: 35.0 °C

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per Factory Act.)	Test Method
1	Room Temperature	°C	31.1	Not Specified	ETS/STP/AIR-13
2	Relative Humidity,(RH)	%	57.3	Not Specified	ETS/STP/AIR-13

For ENVIRO-TECH SERVICES

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY
MD. HUMRAJ
Quality Manager

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

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TEST REPORT

TEST REPORT NO.: ETS/1082-13/07/2023

DATE OF REPORT: 10.07.2023

WORK ZONE MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per Factory Act.)	Test Method
3	Particulate Matters, (PM ₁₀)	mg/m ³	1.27	5, OSHA	IS: 5182 (Part-23)
4	Particulate Matters, (PM _{2.5})	µg/m ³	32.2	For 24 Hrs. =60, CPCB	IS: 5182 (Part-24)
5	Sulphur Dioxide, (SO ₂)	mg/m ³	0.039	5	IS: 5182 (Part-2)
6	Nitrogen Dioxide, (NO ₂)	mg/m ³	0.072	6	IS: 5182 (Part-6)
7	Carbon Monoxide, (CO)	mg/m ³	0.45	55	IS: 5182 (Part-10)
8	Ammonia, (NH ₃)	mg/m ³	<0.01	18	IS: 5182 (Part-25)
9	Oil Mist	mg/m ³	<0.01	5	Volumetric

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

Page 2 of 2



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Quality Manager

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TC-8771



TEST REPORT

TEST REPORT NO.: ETS/1082-14/07/2023 URLNO.TC877123000108214F DATE OF REPORT: 10.07.2023

WORK ZONE MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LTD.
(TUBE PLANT), 28/4,SITE-IV,SAHIBABAD
INDUSTRIAL AREA,SAHIBABAD GHAZIABAD U.P.

Date of Monitoring : 05.07.2023
Analysis Start Date : 06.07.2023
Analysis End Date : 10.07.2023
Duration Of Monitoring : 05.07.2023 To 05.07.2023 8 HOURS, TWA
Time Of Monitoring : 10.00 AM To 06.00 PM
Sample ID No : 1082-14
Sampling Done By : ETS STAFF
Sampling Location : TUBE MILL AREA NO-06, SHED NO-03
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL
Weather Condition : CLOUDY Ambient Temperature: 35.0 °C

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per Factory Act.)	Test Method
1	Room Temperature	°C	28.8	Not Specified	ETS/STP/AIR-13
2	Relative Humidity,(RH)	%	52.2	Not Specified	ETS/STP/AIR-13

Page 1 of 2



For ENVIRO-TECH SERVICES

MD HUMRAJ
AUTHORIZED SIGNATORY

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TEST REPORT

TEST REPORT NO.: ETS/1082-14/07/2023

DATE OF REPORT: 10.07.2023

WORK ZONE MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per Factory Act.)	Test Method
3	Particulate Matters,(PM ₁₀)	mg/m ³	1.23	5,OSHA	IS: 5182 (Part-23)
4	Particulate Matters,(PM _{2.5})	µg/m ³	27.9	For 24 Hrs.=60, CPCB	IS: 5182 (Part-24)
5	Sulphur Dioxide,(SO ₂)	mg/m ³	0.030	5	IS: 5182 (Part-2)
6	Nitrogen Dioxide,(NO ₂)	mg/m ³	0.054	6	IS: 5182 (Part-6)
7	Carbon Monoxide,(CO)	mg/m ³	0.37	55	IS: 5182 (Part-10)
8	Ammonia,(NH ₃)	mg/m ³	<0.01	18	IS: 5182 (Part-25)
9	Oil Mist	mg/m ³	<0.01	5	Volumetric

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



Page 2 of 2

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
MO HUMRAJ
Quality Manager

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TC-8771



TEST REPORT

TEST REPORT NO.: ETS/1082-15/07/2023 URLNO.TC877123000108215F DATE OF REPORT: 10.07.2023

WORK ZONE MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LTD.
(TUBE PLANT), 28/4, SITE-IV, SAHIBABAD
INDUSTRIAL AREA, SAHIBABAD GHAZIABAD U.P.

Date of Monitoring : 05.07.2023

Analysis Start Date : 06.07.2023

Analysis End Date : 10.07.2023

Duration Of Monitoring : 05.07.2023 To 05.07.2023 8 HOURS, TWA

Time Of Monitoring : 10.20 AM To 06.20 PM

Sample ID No : 1082-15

Sampling Done By : ETS STAFF

Sampling Location : CHILLER PLANT AREA SHED NO-04

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLOUDY Ambient Temperature: 35.0 °C

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per Factory Act.)	Test Method
1	Room Temperature	°C	27.4	Not Specified	ETS/STP/AIR-13
2	Relative Humidity,(RH)	%	50.1	Not Specified	ETS/STP/AIR-13



Page 1 of 2

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
MS HOMRA
Quality Manager

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

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TEST REPORT

TEST REPORT NO.: ETS/1082-15/07/2023

DATE OF REPORT: 10.07.2023

WORK ZONE MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per Factory Act.)	Test Method
3	Particulate Matters,(PM ₁₀)	mg/m ³	1.19	5.OSHA	IS: 5182 (Part-23)
4	Particulate Matters,(PM _{2.5})	µg/m ³	23.4	For 24 Hrs =60, CPCB	IS: 5182 (Part-24)
5	Sulphur Dioxide,(SO ₂)	mg/m ³	0.027	5	IS: 5182 (Part-2)
6	Nitrogen Dioxide,(NO ₂)	mg/m ³	0.052	6	IS: 5182 (Part-6)
7	Carbon Monoxide,(CO)	mg/m ³	0.29	55	IS: 5182 (Part-10)
8	Ammonia,(NH ₃)	mg/m ³	<0.01	18	IS: 5182 (Part-25)
9	Oil Mist	mg/m ³	<0.01	5	Volumetric

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



Page 2 of 2

For ENVIRO-TECH SERVICES

MD NUMRAJ
AUTHORIZED SIGNATORY
Quality Manager

Format No ETS/LAB/TR-04, 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/1082-16/07/2023 URLNO.TC877123000108216F DATE OF REPORT: 10.07.2023

WORK ZONE MONITORING AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LTD.
(TUBE PLANT), 28/4,SITE-IV,SAHIBABAD
INDUSTRIAL AREA,SAHIBABAD GHAZIABAD U.P.

Date of Monitoring : 05.07.2023

Analysis Start Date : 06.07.2023

Analysis End Date : 10.07.2023

Duration Of Monitoring : 05.07.2023 To 05.07.2023 8 HOURS, TWA

Time Of Monitoring : 10.25 AM To 06.25 PM

Sample ID No : 1082-16

Sampling Done By : ETS STAFF

Sampling Location : SHED NO-04 AREA

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 METER FROM GROUND LEVEL

Weather Condition : CLOUDY Ambient Temperature: 35.0 °C

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per Factory Act.)	Test Method
1	Room Temperature	°C	32.7	Not Specified	ETS/STP/AIR-13
2	Relative Humidity,(RH)	%	57.4	Not Specified	ETS/STP/AIR-13



Page 1 of 2

For ENVIRO-TECH SERVICES

MR HUMRAJ
AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO.: ETS/1082-16/07/2023

DATE OF REPORT: 10.07.2023

WORK ZONE MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per Factory Act.)	Test Method
3	Particulate Matters,(PM ₁₀)	mg/m ³	1.30	5, OSHA	IS: 5182 (Part-23)
4	Particulate Matters,(PM _{2.5})	µg/m ³	29.2	For 24 Hrs.=60, CPCB	IS: 5182 (Part-24)
5	Sulphur Dioxide,(SO ₂)	mg/m ³	0.034	5	IS: 5182 (Part-2)
6	Nitrogen Dioxide,(NO ₂)	mg/m ³	0.067	6	IS: 5182 (Part-6)
7	Carbon Monoxide,(CO)	mg/m ³	0.38	55	IS: 5182 (Part-10)
8	Ammonia,(NH ₃)	mg/m ³	<0.01	18	IS: 5182 (Part-25)
9	Oil Mist	mg/m ³	<0.01	5	Volumetric

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

Page 2 of 2



For ENVIRO-TECH SERVICES
AUTHORIZED SIGNATORY
MD. HUMRAJ
Quality Manager

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ENVIRO-TECH SERVICES

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TC-8771



ETS-LAB



TEST REPORT

TEST REPORT NO.: ETS/1082-17/07/2023 URLNO.TC877123000108217F DATE OF REPORT: 10.07.2023

SOIL SAMPLE AND ANALYSIS REPORT

Name And Address of Customer : TATA STEEL LTD.
(TUBE PLANT), 28/4,SITE-IV,SAHIBABAD
INDUSTRIAL AREA,SAHIBABAD GHAZIABAD U.P.

Date of Sampling : 05.07.2023

Analysis Start Date : 06.07.2023

Analysis End Date : 10.07.2023

Sample ID No : 1082-17

Sampling Done By : ETS STAFF

Sampling Description : SOIL

Sampling Location : PARK AREA

Sampling Method : ETS/STP/SOIL-01

Sample Quantity : 2.0 Kg.

Packing Condition : SEALED

Packed In : POLY BAG

S. No.	Test Parameter	Unit	Result	Test Method
1	Cadmium,(Cd)	mg/kg	<0.01	USEPA-3050A
2	Chromium,(Cr)	mg/kg	<0.01	USEPA-3050A



CHECKED BY
SHRADDHA GUPTA

Page 1 of 2

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

MD HUMRAJ
Quality Manager

Format No ETS/LAB/TR-12, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO.: ETS/1082-17/07/2023

DATE OF REPORT: 10.07.2023

SOIL SAMPLE AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Test Method
3	Sand	%	68.2	IS 2720 (Part-4)
4	Silt	%	19.3	IS 2720 (Part-4)
5	Clay	%	22.5	IS 2720 (Part-4)
6	pH	...	7.90	IS 2720 (Part-26)
7	Electrical Conductivity (EC)	µs/cm	83.0	IS 14767
8	Water Holding Capacity (WHC)	%	0.52	IS 2720 (Part-2)
9	Sodium, (Na)	mg/kg	<0.01	USEPA-3050A
10	Phosphorus (PO ₄)	mg/kg	18.0	ETS/STP/SOIL-19
11	Potassium (K)	mg/kg	41.0	USEPA-3050A
12	Calcium, (Ca)	mg/kg	16.0	IS 2720 (Part-23)
13	Magnesium, (Mg)	mg/kg	29.0	ETS/STP/SOIL-08
14	Organic Carbon, (OC)	%	7.6	BS 1377 -3
15	Nitrate, (NO ₃)	mg/kg	0.72	IS 14684: 1999 (RA 2005)
16	Sulphate (SO ₄)	mg/kg	142.0	ETS/STP/SOIL
17	Chloride, (Cl)	mg/kg	23.2	BS 1377 -3
18	Iron, (Fe)	mg/kg	<0.05	USEPA-3050A
19	Calcium Carbonate	mg/kg	<5.0	IS 2720 (Part-23)
20	Specific Gravity	...	1.14	IS 2720 (Part- 3))

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



Page 2 of 2

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

MD HUMRAJ
Quality Manager

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U.P. Pollution Control Board

CONSENT ORDER

Ref No. - 103077/UPPCB/Ghaziabad(UPPCBRO)/CTO/water/GHAZIABAD/2020

Dated : 16/09/2020

To ,

Shri Dinesh Kumar tyagi
M/s TATA STEEL BSL LIMITED Fomely Known as Bhushan Steel Limited
Plot No-28/4 Industrial Area Sahibabad, Ghaziabad,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 Fomely Known as Bhushan Steel Limited

Reference Application No :9445267

Dated :16/09/2020

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 Fomely Known as Bhushan Steel 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 tant/soak pit subject to general and special conditions mentioned in the annexure ,in refrence to their foresaid application .
2. This consent is valid for the period from 01/01/2021 to 31/07/2025 .
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 (Previntion and Controt 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

REGIONAL OFFICER, GHAZIABAD

**Enclosed : As above
(condition of consent):**

Copy to: CEO-1, UPPCB, LUCKNOW

REGIONAL OFFICER, GHAZIABAD

U.P. POLLUTION CONTROL BOARD, LUCKNOW

Annexure to Consent issued to M/s.TATA STEEL BSL LIMITED Formerly Known as Bhushan Steel Limited vide

Consent Order No. 9445267/ Water

Dated : 16/09/2020

CONDITIONS OF CONSENT

1. This consent is valid only for the approved production capacity of Steel Pipe & Tube – 5173 MT/month (dry process) .
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	Drain	STP

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	Total Suspended Solids	100mg/l
2	BOD	30 mg/l
3	COD	250 mg/l
4	Oil & Grease	10 mg/l
5	Quantity of Discharge	12 KLD

- 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

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 .

Specific Conditions:

1. This CTO is being granted to M/s TATA STEEL BSL LIMITED Formerly Known as Bhushan Steel Limited, Plot No-28/4 Industrial Area Sahibabad, Ghaziabad for Steel Pipe & Tube – 5173 MT/month (dry process) ONLY. This CTO will be VOID if there is any change in above mentioned address or product. The applicant shall make an application along with prescribed fee for renewal/consent(CTO) at least 30 days before the operation of unit.
2. The industry can only manufacture products, at the rate of production as mentioned in consent order. In case of any change in production capacity, process, raw materials use etc. the industry will have to intimate the Board. For any enhancement of the above, fresh Consent to Establish has to be obtained from U.P. State Pollution Control Board.
3. Industry shall comply with various Waste Management Rules as notified by MoEF&CC i.e. Plastic Waste Management Rules, 2016, Solid Waste Management Rules, 2016, Hazardous and Other Wastes (Management and Transboundary) Rules, 2016, E-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016.
4. Industry shall ensure adequate plantation and green belt within its premises. Green cover shall be in compliance of approved map from concerned Authority.
5. Industry shall ensure that industrial effluent is discharged from approved outlet and only after treatment in effluent treatment plant (as per proposal).
6. Under the Noise Pollution (Regulation and Control) Rule 2000, the industry shall take adequate measures for control of noise from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(A) during day time and 70 dB(A)
7. Industry shall abide by directions given by Hon'ble Supreme Court, High Court, National Green Tribunals, Central Pollution Control Board and Uttar Pradesh Pollution Control Board for protection and safeguard of environment from time to time.
8. Prior to abstraction, industry shall obtain a No Objection Certificate from Central Ground Water Authority for abstraction of ground water.
9. The industry shall provide adequate arrangement for fighting the accidental leakages/discharge of any air pollutant/gas/liquid from the vessel, machinery etc. which are likely to cause fire hazard including environmental pollution.
10. The industry shall adhere to general standards terms and conditions of Water/Air Acts and compliance of Environment standards as per Environment (protection) Act 1986.
11. Industry shall submit first compliance report with respect to conditions imposed within 30 days of issue of this permission.
12. Industry shall develop green belt in accordance with Government Order 07/55-022018/09(writ)/2016 dated 26/02/2018 and UPPCB Office order issued vide letter no. H16405/220/2018/02 dated 16/02/2018
13. Industry shall ensure carbon offsetting as per Government Order (Environment Department) issued vide letter no. H17259/ 183/55-2-2018/09(writ)/2016 dated 15.03.2018.
14. A good house keeping shall be maintained both within the factory and in the premises. All hoods, pipes, valves, sewers and drains shall be leak proof. Floor washings shall be admitted into the effluent collection system only and shall not be allowed to find their way into storm drains or open areas.
15. Separate power connection with energy meter shall be provided for the Pollution Control Equipments and record of power consumption and chemicals consumption for the operation of pollution control equipment shall be maintained separately.
16. The applicant shall furnish to the visiting officer and / or the Board any information regarding the construction, installation or operation of the effluent treatment system / air pollution control equipment / secured storage area of Hazardous Waste and such other particulars as may be pertinent for preventing and controlling pollution.
17. The industry shall comply with ambient air quality standards of SO₂ - 80 g/m³; NO_x - 80 g/m³, PM_{2.5} - 60 g/m³ ; PM₁₀ – 100 g/m³ ; and other parameters as notified by MoEF & CC, GOI vide notification No.GSR 826(E), dated 16.11.2009 during operational phase of the project.
18. The industry shall provide & operate the following dust containment / suppression measures to comply with standards prescribed by the Board. a) Shall construct wind breaking wall all around the periphery of the site. b) Shall install machinery in a closed shed. c) Shall provide bag filter to mitigate fugitive dust emissions from process section and house the bag filter in closed shed. d) Shall store all the raw materials & products in closed sheds only. e) Shall regularly undertake cleaning & wetting of ground at your premises. f) Shall provide & operate water sprinklers at all dust emanating sources.
19. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attract action under the provisions of relevant pollution control Acts.
20. Copy of NOC from Central Ground Water Authority (CGWA) should be submitted to this office within 03 months, failing which this consent shall be automatic revoked.

21. The industry is liable to pay compensation for any environmental damage caused by it, as fixed by the Hon'ble Supreme Court, High Court, National Green Tribunal, Central Pollution Control Board and Uttar Pradesh Pollution Control Board.

22. The Board reserves its right to modify above conditions or stipulate any additional conditions including revocation of this order, in the interest of environment protection. In case of violation of above mentioned conditions or any public complaint the CTO shall be withdrawn.

Issued with the permission of competent authority .

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

REGIONAL OFFICER, GHAZIABAD



U.P. Pollution Control Board

CONSENT ORDER

Ref No. - 103031/U.P.P.C.B./Ghaziabad(U.P.P.C.B.R.O)/CTO/air/GHAZIABAD/2020

Dated : 16/09/2020

To ,

Shri Dinesh Kumar tyagi
M/s TATA STEEL BSL LIMITED Fomely Known as Bhushan Steel Limited
Plot No-28/4 Industrial Area Sahibabad, Ghaziabad,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 Fomely Known as Bhushan Steel Limited

Reference Application No. 9441370

Dated : 16/09/2020

1. With reference to the application for consent for emission of air pollutants from the plant of M/s TATA STEEL BSL LIMITED Fomely Known as Bhushan Steel 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 01/01/2021 to 31/07/2025 .
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

REGIONAL OFFICER, GHAZIABAD

**Enclosed : As above
(condition of consent):**

Copy to: CEO-1, U.P.P.C.B., LUCKNOW

REGIONAL OFFICER, GHAZIABAD

U.P. Pollution Control Board

Dated : 16/09/2020

CONDITIONS OF CONSENT

1. This consent is valid only for the approved production capacity of Steel Pipe & Tube – 5173 MT/month (dry process) .
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 Polution Source	Type of Fuel	Stack No.	Parameters	Height
1	DG SET 500 KVA	HSD	1	Particulate Matter	AS PER E.P. Act

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

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 monitering report should be submitted .

Specific Conditions:

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2. The industry can only manufacture products, at the rate of production as mentioned in consent order. In case of any change in production capacity, process, raw materials use etc. the industry will have to intimate the Board. For any enhancement of the above, fresh Consent to Establish has to be obtained from U.P. State Pollution Control Board.
3. Industry shall comply with various Waste Management Rules as notified by MoEF&CC i.e. Plastic Waste Management Rules, 2016, Solid Waste Management Rules, 2016, Hazardous and Other Wastes (Management and Transboundary) Rules, 2016, E-waste (Management) Rules, 2016, Construction and Demolition Waste Management Rules, 2016.
4. Industry shall ensure adequate plantation and green belt within its premises. Green cover shall be in compliance of approved map from concerned Authority.
5. Industry shall ensure that industrial effluent is discharged from approved outlet and only after treatment in effluent treatment plant (as per proposal).
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7. Industry shall abide by directions given by Hon'ble Supreme Court, High Court, National Green Tribunals, Central Pollution Control Board and Uttar Pradesh Pollution Control Board for protection and safeguard of environment from time to time.
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11. Industry shall submit first compliance report with respect to conditions imposed within 30 days of issue of this permission.
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16. The applicant shall furnish to the visiting officer and / or the Board any information regarding the construction, installation or operation of the effluent treatment system / air pollution control equipment / secured storage area of Hazardous Waste and such other particulars as may be pertinent for preventing and controlling pollution.
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REGIONAL OFFICER, GHAZIABAD