



TSL/SBBD/EMD/2025-26/55  
25<sup>th</sup> November 2025

**The Deputy Director General of Forests (C)**  
Integrated Regional Office  
Ministry of Environment, Forest and Climate Change,  
Kendriya Bhawan, 5th Floor, Sector "H", Aliganj,  
Lucknow – 226020

**Subject: Half Yearly EC Compliance Status of existing production facilities for 0.91 MTPA Cold rolled strips & sheets (1250 MT/Day) and Galvanized plain/corrugated sheets (1250 MT/Day) at Plot no-23, Site-IV, Industrial Area, Sahibabad, District Ghaziabad, Uttar Pradesh for the period April 2025 to September 2025**

**Reference:** EC vide letters no. IA-J-11011/497/2021-IA-II(IND-I) Dated 09.07.2024

Dear Sir/Madam,


This has reference to the captioned subject and cited reference. We are herewith submitting six monthly compliance status report for the conditions stipulated in the Environment Clearance of 0.91 MTPA Cold rolled strips & sheets (1250 MT/Day) and Galvanized plain/corrugated sheets (1250 MT/Day) at Plot no-23, Site-IV, Industrial Area, Sahibabad, District Ghaziabad for the period from April 2025 to September 2025 along with monitoring report for your kind consideration.

The copy of above compliance report is also being sent in soft format through email ([rocz.lko-mef@nic.in](mailto:rocz.lko-mef@nic.in), [monitoring-ec@nic.in](mailto:monitoring-ec@nic.in)) for your kind perusal. Also copy of EC compliance is being uploaded on MoEF&CC website on portal <http://environmentalclearance.nic.in>.

Hope, the above are in line with the statutory requirements.

Thanking You.

Yours Faithfully,  
**For, Tata Steel Limited**

  
Chandra Prakash  
(Chief- CRM & Tubes, Sahibabad)

Encl: As above

Copy To-

- I. The Member Secretary, Uttar Pradesh State Pollution Control Board, Building. No. TC-12V. Vibhuti Khand, Gomti Nagar. Lucknow-226 010
- II. The Regional Officer, Uttar Pradesh Pollution Control Board, INS/2, Sector-16, Vasundhara, Ghaziabad (U.P.)
- III. The Chief Environment Engineer (Circle-1), U.P. Pollution Control Board, TC- 12V, Vibhuti Khand, Gomati Nagar, Lucknow-226010 (U.P.)

**TATA STEEL LIMITED**

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Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001 India Tel 91 22 66658282 Fax 91 22 66657724  
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**Compliance Status of Environmental Clearance for Regularization of existing production facilities for 0.91 MTPA Cold rolled strips & sheets (1250 MT/Day) and Galvanized plain/corrugated sheets (1250 MT/Day) at Plot no-23, Site-IV, Industrial Area, Sahibabad, District Ghaziabad, Uttar Pradesh.  
MoEF&CC File no. IA-J-11011/497/2021-IA-II(IND-I) Dated 09.07.2024.**

Sl. N.	EC Conditions	Compliance Status
<b>1.</b>	<b>Specific Conditions</b>	
1.1	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Agreed to Comply.
1.2	The PP shall strictly comply with the Directions issued by the Commission for Air Quality Management in National Region and Adjoining Areas.	Agreed and complied. All the applicable directions issued by the Commission for Air Quality Management in National Region and Adjoining Areas are implemented.
1.3	In pursuance to MoEF&CC OMs dated 31st October, 2019 & 30th December, 2019 issued in compliance of the order of Hon'ble NGT in OA No. 1038/2018 dated 19th August, 2019, the compliance of all the conditions applicable to CEPI shall be implemented as per the submitted plan.	Agreed and complied. Applicable conditions of CEPI are implemented.
1.4	The industry shall use PNG gas as per direction no. 64 of the Commission for Air Quality Management in National Region and Adjoining Areas by 30.09.2022.	Complied. Unit is using PNG for plant operation.
1.5	The PP shall strictly implement the mitigation measures to minimise the ambient air pollution so that the Air Quality Data will be as per notified Standards.	Complied. We have implemented all the mitigation measures to minimize the ambient air pollution and to improve the Air Quality Data.
1.6	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	Complied. We have implemented the environmental protection measures and safeguards proposed in the documents submitted to the Ministry and the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project are being ensured.
1.7	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	Complied. We have implemented various energy efficiency projects to reduce energy consumption and carbon emission per metric tonne of production. Yearly report on implemented Energy efficiency projects attached as <b>annexure-1</b> .
1.8	Ghaziabad is at a distance of 1 km and other sensitive areas such as Health centers, Schools etc. within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. The project proponent needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also	Complied. We have taken and implemented all the appropriate environmental safeguard measures to minimize the impact on the local habitations. We are developing and maintaining a green belt in and outside the plant premises. We have conducted Environmental Monitoring at different locations in plant area through NABL accredited

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	include some of these locations in its environmental monitoring programme.	laboratory. Ambient air quality reports of the period August 2025 attached as <b>annexure-2</b> .
1.9	As reported, Hindon Cut is at a distance of 1.5 km, eastern Yamuna Canal at 2 km along with other water bodies within the study area of the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.	Complied. We have implemented the necessary measures to protect and maintain the flow of natural drainage.
1.10	Approved Management plan for Okhla Bird Sanctuary shall be strictly implemented.	Being Complied. Applicable conditions of approved management plan of Okhla Bird Sanctuary are ensured and followed at unit level.
1.11	The water requirement of 1962 KLD, is proposed to be obtained from ground water. PP shall obtain necessary permission from the Competent Authority. Also as committed, PP shall undertake gradual phasing out of groundwater and switch to alternate source of water.	Complied. We have obtained NOC for GW drawl of 1530 KLD from Uttar Pradesh Ground Water Department (UPGWD). Unit have made an agreement with Ghaziabad Nagar Nigam (GNN) for the supply of STP Treated water for plant operation and have started utilisation of STP recycled water. GW NOC copy and GNN Agreement Copy attached as <b>annexure-3</b>
1.12	Three tier Green Belt shall be developed in atleast 40% of the project area in a period of 1 year of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards sensitive areas nearby project site. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.	Complied. Green Belt has been developed on the existing available patches of land inside the plant premises as well as outside the plant premises on the allotted land by Ghaziabad Nagar Nigam. Efforts are being put to maintain & plant more no. of saplings to go beyond the compliance requirement of 40 percentage (7.12 ha) of the total existing plant area of 17.8 ha. Details attached as <b>annexure-4</b> .
1.13	All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.	Being complied. We have implemented multiple development program nearby village under CSR initiatives. Report Attached as <b>annexure-5</b> .
1.14	The project proponent shall undertake village adoption program and prepare and implement the action plan to develop them into a model village.	Shall be complied. We have initiated and implemented various development program in nearby village. Report Attached as <b>annexure-5</b> .

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1.15	The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.	Shall be complied. A Management plan for Okhla Bird Sanctuary (2022-23 to 2031-32) has been prepared by Divisional Forests Officer, Gautam Budh Nagar and same has been approved from Principal Chief Conservator of Forest, Wildlife, Uttar Pradesh vide letter no. 3115/ 23-7-9, Lucknow dated 26th May 2022
1.16	Tree Plantation to be developed in 7.12 Ha and the same should be taken up under #एक पेड़ माँ के नाम campaign and their survival be ensured.	Complied. We have planted above 96000 Saplings under the campaign #एक पेड़ माँ के नाम in FY 25 & in FY 26 till September 2025.
<b>Standard EC Conditions</b>		
<b>1. Specific Conditions</b>		
1.1	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.	Agreed to comply. We abide all the applicable conditions as stipulated in the Acts/Rules/Subordinate legislation.
1.2	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Agreed to Comply.
<b>2. Air Quality Monitoring And Preservation</b>		
2.1	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous and their no's.)	Being Complied. We have installed CEMS at Pickling, ARP and Boiler stacks and connected it with CPCB/SPCB server. Unit has installed 01 No. of Continuous Ambient Air Quality Station (CAAQMS) for the monitoring of AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. Connectivity of CAAQMS to CPCB/SPCB server has been initiated and is Under progress. Unit have also conducted manual Environment monitoring through NABL accredited laboratory. Analysis report for the period of August 2025 attached as <b>annexure-2</b> .
2.2	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and	Being Complied. We have installed 01 No. of Continuous Ambient Air Quality Station (CAAQMS) for the monitoring of AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and conducted



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	outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.	manual Ambient Air Quality monitoring at 4 location covering upward and downward location.
2.3	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Complied. Monitoring in the plant premises are being done through NABL accredited laboratory.
2.4	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions.	Complied. Sampling facility for manual monitoring of emissions at process stacks are provided as per the CPCB guidelines.
2.5	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Complied. We have installed appropriate Air Pollution Control (APC) system (e.g. Wet Scrubbers at Pickling and ARP unit) so as to comply prescribed stack emission standards. Stack monitoring report for the period of August 2025 attached as <b>annexure 2</b> .
2.6	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	<b>Not Applicable.</b> Stipulated condition is applicable to Bag filters type of APCD.
2.7	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Complied. We have deployed road sweeping machine to improve housekeeping in plant area.
2.8	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	Complied. Compliance to the condition has been ensured. Though we are not using or conveying the raw materials like Coal, we have made necessary arrangements and facility for tarpaulin cover.
2.9	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.	Complied. We have installed the fume extraction system at all processes.
2.10	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	<b>Not applicable.</b> No Stockpiles available in the plant premises.
2.11	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Complied. We have provided adequate ventilation system in oil cellars to increase air circulation.
2.12	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.	Complied. We have provided adequate Pollution control devices as per CPCB/SPCB guidelines.
2.13	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, adsorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted	Complied. We have provided adequate Pollution control devices to arrest pollutants generated due to operation. We have also started using Natural Gases as a cleaner fuel in our Boilers and Furnaces. In a green initiative, we have started using EV vehicles for the Transportation of Goods and materials. We are using water sprinklers inside the plant premises to suppress any dust due to vehicular movement.

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	Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.	
2.14	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.	<b>Not applicable.</b> Bag Filters are not available/ installed.
2.15	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.	<b>Not applicable.</b> We are operating cold rolling mill and using Hot rolled coil as a raw material.
2.16	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm <sup>3</sup> and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.	Complied. We have started using Natural Gas as fuel hence particulate matter emissions are well under the prescribed norms. Stack Monitoring report of period August 2025 attached as <b>annexure 2</b> .
2.17	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.	<b>Not applicable.</b> We are operating cold rolling mill and using Hot rolled coil as a raw material.
<b>3. Water Quality Monitoring And Preservation</b>		
3.1	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Complied. We are achieving Zero Effluent Discharge (ZED). Aside, the Continuous effluent quality monitoring systems (CEQMS) are in place to monitor & control the quality of effluent and improve the effectiveness of treatment processes. CEQMS is connected to CPCB /SPCB Server.
3.2	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Complied. Ground water quality is being monitored on half yearly basis (Pre and Post Monsoon) through NABL accredited lab. Ground water Report attached as <b>annexure-2</b> .
3.3	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	<b>Not Applicable.</b> Stockpile is not available in plant area.
3.4	Water meters shall be provided at the inlet to all unit processes in the steel plants.	Complied. Water meters are installed at all major inlet point of unit processes.

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3.5	The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Complied. We have installed and Operating ZED plant to reuse and recycle maximum quantity of generated Effluent. As well as we have started utilisation of STP recycled water of Ghaziabad Nagar Nigam to significantly reduce the use of Fresh water consumption.
3.6	The proposed project shall be designed as Zero Liquid Discharge Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.	Complied. We have installed 800 KLD capacity ETP and 60+140 KLD capacity STP Plant followed by ZED (750 KLD) to treat the effluent and sewage generated in plant premises and reuse back in process after treatment.
3.7	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.	Complied. We are operating cold rolling mill and using Hot rolled coil as a raw material. Though, we have made arrangements to store the raw material and our finish good products under cover shed and on impervious flooring.
3.8	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.	Complied. We have installed and maintained rainwater harvesting structure inside the plant premises, as well as ponds have been adopted to catch runoff. Photographs attached as <b>annexure 6</b> .
<b>4. Water Quality Monitoring And Preservation In Case Of Rolling Mills</b>		
4.1	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time. (in case of rolling mills)	Complied. We have installed and operate 800 KLD capacity ETP followed by ZED plant (750 KLD capacity) for effective treatment and maximum recovery.
4.2	Cold Rolling Mill (CRM), color coating and galvanizing plants shall have CETP to treat and recycle the treated water from CRM complex. Sludge generated at CRM ETP shall be sent to TSDF. (in case of cold rolling mills)	Complied. We have installed and operate 800 KLD capacity ETP followed by ZED plant (750 KLD capacity) for effective treatment and maximum recovery. Generated Sludge is being sent to TSDF for disposal.
<b>5. Noise Monitoring And Prevention</b>		
5.1	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Complied. Noise level monitoring is being done through NABL accredited laboratory. Monitoring report for the period of May 2025 attached as <b>annexure 2</b> .
5.2	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Complied. Ambient Noise levels are within the prescribed standard and monitoring is being done through NABL accredited laboratory.
<b>6. Energy Conservation Measures</b>		

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6.1	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;	Complied. We have installed and maintain 100.4 KVA rooftop solar panel to promote renewal energy initiatives.
6.2	Provide LED lights in their offices and residential areas.	Complied. We have installed LED light in plant as well as office area to reduce power consumption.
<b>7. Waste Management</b>		
7.1	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area.	Complied. We have made oil collection pit in cellars and same has been reused and transfer into barrel and sent to PCB approved recycler.
7.2	Kitchen waste shall be composted or converted to biogas for further use.	Complied. Compost machine has been installed to convert Canteen generated Biodegradable waste in compost.
7.3	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	<b>Not Applicable.</b> Fly ash not generated.
7.4	The Plastic Waste Management Rules 2016, inter alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <a href="https://cpcb.nic.in/technical-guidelines-3/">https://cpcb.nic.in/technical-guidelines-3/</a> . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.	Complied. We have provided awareness training among the people working within the project area as well as local surrounding area towards ban on single use plastic. Photographs attached as <b>annexure 07</b> .
7.5	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	Complied. We have engaged PCB approved recycler/refurbisher for recycling of generated e-waste.
<b>8. Green Belt</b>		
8.1	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	Being Complied. GHG emission inventory is being maintained at plant. We have engaged resources to develop and maintain a green belt on 7.12 Ha of land, that will support as a sink and helps to sequesterate the emitted carbon.



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8.2	Project proponent shall submit a study report on Decarbonization program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.	Complied. Company's (i.e. Tata Steel Limited) consolidated decarbonization program has been framed which includes timebound strategies to offset emitted carbon and reduce carbon intensity. To support and monitor the progresses, we have conducted study through Bureau of Energy efficiency (BEE).
8.3	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	Complied. We have implemented initiatives on greening and paving the available patch of plant area to arrest soil erosion.
<b>9. Public Hearing And Human Health Issues</b>		
9.1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied. We have implemented Emergency Preparedness Plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan.
9.2	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.	Shall be complied. We are identifying the work zone vulnerable to high temperature for heat stress analysis. If necessitates, we will conduct the study. We ensure that the Workmen working in the plant premises must wear the applicable PPE's. Regular training on safety aspects are also being imparted through various medium.
9.3	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	<b>Not Applicable.</b> The industry is in operation since 1990 and no residential facility available in plant area.
9.4	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Complied. Occupational health surveillance of the workers is being done on a regular basis and records are maintained at Plant OHC.
<b>10. Environment Management</b>		
10.1	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.	Complied. We have implemented multiple programs in nearby surrounding area under CSR initiative for upliftment of people and community. Report Attached as <b>annexure 5</b> .

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MoEF&CC File no. IA-J-11011/497/2021-IA-II(IND-I) Dated 09.07.2024.**

10.2	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Complied. Unit has a separate environmental Policy includes all aspect which is signed by CEO and MD. Copy of Environmental Policy attached as <b>annexure-8</b> .
10.3	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Complied. An Environmental Management Cell (EMC) has been formed, which is responsible for monitoring EMP and its implementation. Head - Environment is looking for environmental management at Plant who reports Chief (Environment) at corporate level.
10.4	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.	Shall be Complied. We have conducted monitoring from NABL accredited laboratory. Environmental Monitoring results are well within the prescribed norms.
<b>11. Miscellaneous</b>		
11.1	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied. Environmental Clearance has been advertised in two local newspapers i.e., Nav Bharat Times Ghaziabad in Hindi language and Times of India Ghaziabad in English language on July 15, 2024. The same has already been communicated to the Regional Office of MOEF&CC, vide our letter no TSL/EC-CRM/2024/07-01 July 16, 2024.
11.2	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied. Environmental Clearance copy has been submitted to local government authority i.e. Municipal commissioner, UPPCB etc. Receiving copy attached as <b>annexure 9</b> .
11.3	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Complied. Environmental Clearance has been uploaded and Half Yearly compliance report displayed on our company website <a href="https://www.tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports">https://www.tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports</a>

**Compliance Status of Environmental Clearance for Regularization of existing production facilities for 0.91 MTPA Cold rolled strips & sheets (1250 MT/Day) and Galvanized plain/corrugated sheets (1250 MT/Day) at Plot no-23, Site-IV, Industrial Area, Sahibabad, District Ghaziabad, Uttar Pradesh.  
MoEF&CC File no. IA-J-11011/497/2021-IA-II(IND-I) Dated 09.07.2024.**

11.4	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Complied. All the pollutants level being monitored and displayed at the main gate of the Company.
11.5	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented.	Complied. We have constructed and paved all Internal or connecting roads.
11.6	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Complied. Half yearly compliance report is being submitted on Parivesh Portal.
11.7	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Complied. The Environmental Statement in Form-V is being submitted to SPCB on before 30th September of every year. The Environment Statement for the FY 2024-25 was submitted vide letter no. TSL/SBBD/EMD/2025-26/37 Dated- 26 <sup>th</sup> September 2025. The same has been displayed on our company website <a href="https://www.tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports">https://www.tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports</a>
11.8	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	Complied. The industry is in operation since 1990 and the Consent to operate has been granted by concerned authority.
11.9	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Agreed and being complied. Recommendations EIA/EMP report are being complied.
11.10	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.	Being Complied. Okhla Bird Sanctuary is falling in Gautam Budh Nagar district is more than 8 km from existing plant site located at industrial area site 4, Ghaziabad. As per the EIA study report, there are no direct and indirect evidence of presence of any wildlife in the core and buffer area of the plant site. A Management plan for Okhla Bird Sanctuary (2022-23 to 2031-32) has been prepared by Divisional Forests Officer, Gautam Budh Nagar and same has been approved from Principal Chief Conservator of

**Compliance Status of Environmental Clearance for Regularization of existing production facilities for 0.91 MTPA Cold rolled strips & sheets (1250 MT/Day) and Galvanized plain/corrugated sheets (1250 MT/Day) at Plot no-23, Site-IV, Industrial Area, Sahibabad, District Ghaziabad, Uttar Pradesh.  
MoEF&CC File no. IA-J-11011/497/2021-IA-II(IND-I) Dated 09.07.2024.**

		Forest, Wildlife, Uttar Pradesh vide letter no. 3115/ 23-7-9, Lucknow dated 26th May 2022.
11.11	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.	Complied. Environmental Clearance and supporting documents has been uploaded and displayed on our company website <a href="https://www.tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports">https://www.tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports</a>
11.12	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Agreed to Comply
11.13	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed to Comply
11.14	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed to Comply
11.15	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed & shall be complied.
11.16	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Agreed to Comply
11.17	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed to Comply





# **Annexure-01**

**FORM-3**

Refer rule 3(2)

**DETAILS OF ENERGY EFFICIENCY IMPROVEMENT MEASURES IMPLEMENTED, INVESTMENT MADE AND SAVINGS IN ENERGY ACHIEVED AND PROGRESS MADE IN THE IMPLEMENTATION OF OTHER RECOMMENDATIONS****A. Implemented : - (2024-25)**

Sr. No.	Description of Energy efficiency Improvement measure	Category	Investment (Rupees)	Verified Savings (Rupees) - Annual	Verified energy savings- (Annual)	Units	Fuel	Remark
1	Automatic Stop of 4 Nos. 37 KW Jet Cooling Fans During Line Stoppage at GP-1 Line. Previously Fans were operate normally during line stoppage. Line stoppage hour @1560.07 Hours	20	-	482705	66580	KWh	-	Meter Readings (August 24 - March 25)
2	Automatic Stop of 1 Nos. 37 KW Air Dilution blower During Line Stoppage at GP-1 Line. Previously blower was operate normally during line stoppage. Line stoppage hour @1560.07 Hours	20	-	243854	33635	KWh	-	Meter Readings (August 24 - March 25)
3	To optimize power consumption during the processing of thinner segment materials at the GP-4 Line by reducing the number of cooling tower blowers from 03 to 02. Rating of Each Blower: 110 kW & Processing Duration for Thin Material: 826.8 hours	20	-	135017	18623	KWh	-	Meter Readings (December 24 - March 25)
4	Optimize Furnace Utilization to Reduce LNG consumption, 0.730 MMBTU/ton to 0.724 MMBTU/ton at the Batch Annealing Furnace (Wider)	26	-	1996014	1406	MMBTU	R-LNG	Meter Readings (May 24 - March 25)
5	Automate the heating and soaking cycles of the Batch Annealing Furnace (Wider) to Reduced Machine operation Hours to Enhanced efficiency in operation & Decrease in energy consumption and operational costs. Machines Involved: (1.) Work Base Fan: 22 KW Motor, (2.) Combustion Air Blower: 11 KW Motor. (3.) Cooling Well Blowers: 2 x 5 KW Motors	20	-	2166424	298817	KWh	-	Meter Readings (Aug 24 - March 25)
6	Transitioning from DC to AC motors to significantly reduce energy consumption and operational costs. <b>Recoller Motor</b> : Replace 110 KW DC Motor with a 200 KW AC Motor. <b>Sitter Motor</b> : Replace 50 KW DC Motor with a 90 KW AC Motor.	20	1180442	177915	24540	KWh	-	Meter Readings (Nov 24 - March 25)
7	Automatic Stop of Hydraulic pump during line ideal time, 37 KW, 1 Nos each, at Rewinding-6 & CRS-14, 22 KW & 11 KW at 2 HI SPM, 11 KW, 01 Nos each at Rewinding-2 and CRS-14. Previously pumps were operate normally during line stoppage.	20	-	2689518	370968	KWh	-	Meter Readings (July 24 - March 25)
								

Sr. No.	Description of Energy efficiency Improvement measure	Category	Investment (Rupees)	Verified Savings (Rupees) - Annual	Verified energy savings- (Annual)	Units	Fuel	Remark
8	Energy savings by replacing existing Hydraulic equipment. Previous Equipment: Motor: 37 KW Pump: 100 DR Current Equipment: Motor: 22 KW Pump: 71 DR Location: CRS-13 & CRS-14	20	-	461083	63598	KWh	-	Meter Readings (Dec 24 - March 25)
9	Energy Saving by optimizing the demand-side requirements for compressed air in order to reduce overall power consumption by 3% at the Compressor House. Previous Equipment - No addnl Equipment to reduce air pressure Previous Air Pressure 6.0 Kg Current Equi. to Control Air : 6 Nos IFC Unit Current Air Pressure : 5.0 Kg	20	4249999	2358048	325248	KWh	-	Meter Readings (Aug 24 - March 25)
10	Replacement of three (3) units of 250 TR water-cooled screw chillers (Voltas, refrigerant R-22) with three (3) units of energy-efficient 315 TR water-cooled VFD screw chillers (Voltas, refrigerant R-134a). Previous Equipment: Quantity: 3 Nos. Type: 250 TR Water Cooled Screw Chillers Brand: Voltas Refrigerant: R-22 Current Equipment: Quantity: 3 Nos. Type: 315 TR Water Cooled VFD Screw Chillers Brand: Voltas Refrigerant: R-134a Energy Efficiency: Enhanced energy savings and reduced operational costs.	20	13460000	3147660	434160	KWh	-	Previous Specific Energy Consumption 0.92 KWh/TR Current Specific Energy Consumption - 0.65 KWh/TR
11	By Implementing power-saving measures at the OCRM Pump House by connecting the GP-4 cooling water supply to the main header and deactivating the separate 75 KW Motor Pump Set.	20	-	1076516	148485	KWh	-	Meter Readings (Dec 24 - March 25)
								

B. Recommended Energy Conservation Measures in Mandatory Energy Audit: - September-2024



Sr. No.	Description of Energy efficiency Improvement measure	Category	Investment (Rupees)	Verified Savings (Rupees) - Annual	Verified energy savings - (Annual)	Units	Fuel	Remark
Sr. No.	Description of Energy efficiency Improvement measure	Category	Estimated Investment (Rupees)	Estimated Savings (Rupees)	Estimated Annual Energy Savings	Units	Fuel	Status of Implementation
1	Savings due o replacement 30 HP motors with IE3 Motors		2145000	897000	126367	KWh	-	Under Process
2	Savings due to replacement of HPSV 250 watt with 120 LED		40000	32000	4550	KWh	-	Under Process

Signature



Nature of Energy Manager : EA-24842

Name of the Company : TATA STEEL LIMITED

Full Address : 23 Site-IV Sahibabad Industrial Area

Sahibabad Ghaziabad U.P. - 201010

Contact Person : SUNIL KUMAR

Email Address : sunil.kumar50@tatasteel.com

Telephone/ Fax number : 0120-2770601/0120-773602



Signature



Name of the accredited energy auditor : AMULYA KUMAR MOHINI

AEA-002

Accreditation Details : AEA -

Seal





# **Annexure-02**



## TEST REPORT

TEST REPORT NO.: ETS/142/08/2025

ULRNO.TC153902500000142F

DATE OF REPORT: 25.08.2025

### 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

: 21.08.2025

Analysis Start Date

: 22.08.2025

Analysis End Date

: 25.08.2025

Duration Of Monitoring

: 21.08.2025 To 22.08.2025

Time Of Monitoring

: 10.10 AM To 10.10 AM (24 Hrs.)

Sample ID No

: E-142/08

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

: CLOUDY Ambient Temperature: 36.0 °C

Wind Direction

: E To W

Equipment Used

: Respirable Dust Sampler (PM<sub>10</sub>) + Fine Particulate Sampler (PM<sub>2.5</sub>)

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters, (PM <sub>10</sub> )	µg/m <sup>3</sup>	87.1	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters, (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	36.4	For 24 Hrs.=60	IS 5182 (Part-24)
3	Sulphur Dioxide, (SO <sub>2</sub> )	µg/m <sup>3</sup>	12.8	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide, (NO <sub>2</sub> )	µg/m <sup>3</sup>	34.2	For 24 Hrs.=80	IS: 5182 (Part-8)
5	Ammonia, (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20.0	For 24 Hrs.=400	IS 5182 (Part-25)
6	Ozone, (O <sub>3</sub> )	µg/m <sup>3</sup>	22.0	For 1 Hrs.=180	IS: 5182 (Part-9)
7	Lead, (Pb)	µg/m <sup>3</sup>	<0.05	For 24 Hrs.=1	IS 5182 (Part-22)

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



Page 1 of 1

For Enviro Tech Services Pvt. Ltd.  
AUTHORIZED SIGNATORY

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

Pushtkar Mittal  
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.





(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, 8130255461



## TEST REPORT

TEST REPORT NO.: ETS/142/06/2025

DATE OF REPORT: 25.08.2025

### 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 <sup>3</sup>	<1.0	For Annual=06	CPCB, Vol.-1, Pg.-48
9	Nickel, (Ni)	ng/m <sup>3</sup>	<1.0	For Annual=20	IS 5182 (Part-26)
10	Carbon Monoxide, (CO)	mg/m <sup>3</sup>	0.50	For 1 Hrs.=4	IS 5182 : Part 10
11	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	<0.05	For Annual=01	IS: 5182 (Part-12)
12	Benzene, (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	<1.0	For Annual =5	IS 5182 (Part-11)

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



Page 1 of 1

For Enviro Tech Services Pvt. Ltd.

**AUTHORIZED SIGNATORY**

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

**Pushkar Mittal**  
Lab In-charge

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## TEST REPORT

TEST REPORT NO.: ETS/143/08/2025

ULRNO.TC153902500000143F

DATE OF REPORT: 25.08.2025

### 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

: 21.08.2025

Analysis Start Date

: 22.08.2025

Analysis End Date

: 25.08.2025

Duration Of Monitoring

: 21.08.2025 To 22.08.2025

Time Of Monitoring

: 10.30 AM To 10.30 AM (24 Hrs.)

Sample ID No

: E-143/08

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: 36.0 °C

Wind Direction

: E To W

Equipment Used

: Respirable Dust Sampler (PM<sub>10</sub>) + Fine Particulate Sampler (PM<sub>2.5</sub>)

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters, (PM <sub>10</sub> )	µg/m <sup>3</sup>	84.0	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters, (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	33.1	For 24 Hrs.=60	IS 5182 (Part-24)
3	Sulphur Dioxide, (SO <sub>2</sub> )	µg/m <sup>3</sup>	10.7	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide, (NO <sub>2</sub> )	µg/m <sup>3</sup>	36.4	For 24 Hrs.=80	IS: 5182 (Part-6)
5	Ammonia, (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20.0	For 24 Hrs.=400	IS 5182 (Part-25)
6	Ozone, (O <sub>3</sub> )	µg/m <sup>3</sup>	24.0	For 1 Hrs.=180	IS: 5182 (Part.-9)
7	Lead, (Pb)	µg/m <sup>3</sup>	<0.05	For 24 Hrs.=1	IS 5182 (Part-22)

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



Page 1 of 1

For Enviro Tech Services Pvt. Ltd.  
AUTHORIZED SIGNATORY

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

Pushkar Mittal  
Lab in-charge

#### Note:-

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## TEST REPORT

TEST REPORT NO.: ETS/143/08/2025

DATE OF REPORT: 03.05.2025

### 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 <sup>3</sup>	<1.0	For Annual=06	CPCB, Vol.-1, Pg.-48
9	Nickel, (Ni)	ng/m <sup>3</sup>	<1.0	For Annual=20	IS 5182 (Part-26)
10	Carbon Monoxide, (CO)	mg/m <sup>3</sup>	0.62	For 1 Hrs.=4	IS 5182 : Part 10
11	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	<0.05	For Annual=01	IS: 5182 (Part-12)
12	Benzene, (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	<1.0	For Annual =5	IS 5182 (Part-11)

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



Page 1 of 1

For Enviro Tech Services Pvt. Ltd.  
**AUTHORIZED SIGNATORY**

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

Pushkar Mittal  
Lab In-charge

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## TEST REPORT

TEST REPORT NO.: ETS/145/08/2025

ULRNO.TC153902500000145F

DATE OF REPORT: 25.08.2025

### 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

: 22.08.2025

Analysis Start Date

: 23.08.2025

Analysis End Date

: 25.08.2025

Duration Of Monitoring

: 22.08.2025 To 23.08.2025

Time Of Monitoring

: 10.52 AM To 10.52 AM (24 Hrs.)

Sample ID No

: E-145/08

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

: CLOUDY Ambient Temperature: 36.0 °C

Wind Direction

: E To W

Equipment Used

: Respirable Dust Sampler (PM<sub>10</sub>) + Fine Particulate Sampler (PM<sub>2.5</sub>)

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters, (PM <sub>10</sub> )	µg/m <sup>3</sup>	85.8	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters, (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	40.1	For 24 Hrs.=60	IS 5182 (Part-24)
3	Sulphur Dioxide, (SO <sub>2</sub> )	µg/m <sup>3</sup>	10.5	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide, (NO <sub>2</sub> )	µg/m <sup>3</sup>	32.2	For 24 Hrs.=80	IS: 5182 (Part-6)
5	Ammonia, (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20.0	For 24 Hrs.=400	IS 5182 (Part-25)
6	Ozone, (O <sub>3</sub> )	µg/m <sup>3</sup>	24.0	For 1 Hrs.=180	IS: 5182 (Part.-9)
7	Lead, (Pb)	µg/m <sup>3</sup>	<0.05	For 24 Hrs.=1	IS 5182 (Part-22)

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



Page 1 of 1

For Enviro Tech Services Pvt. Ltd.  
AUTHORIZED SIGNATORY

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

Pushkar Mittal  
Lab In-charge

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## TEST REPORT

TEST REPORT NO.: ETS/145/08/2025

DATE OF REPORT: 25.08.2025

### 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 <sup>3</sup>	<1.0	For Annual=06	CPCB, Vol.-1, Pg.-48
9	Nickel, (Ni)	ng/m <sup>3</sup>	<1.0	For Annual=20	IS 5182 (Part-26)
10	Carbon Monoxide, (CO)	mg/m <sup>3</sup>	0.53	For 1 Hrs.=4	IS 5182 : Part 10
11	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	<0.05	For Annual=01	IS: 5182 (Part-12)
12	Benzene, (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	<1.0	For Annual =5	IS 5182 (Part-11)

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

Page 1 of 1



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

For Enviro Tech Services Pvt. Ltd.  
  
**AUTHORIZED SIGNATORY**  
 Pushkar Mittal  
 Lab in-charge

#### Note:-

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## TEST REPORT

TEST REPORT NO.: ETS/144/06/2025 ULRNO.TC153902500000144F DATE OF REPORT: 25.08.2025

### 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 : 22.08.2025

Analysis Start Date : 23.08.2025

Analysis End Date : 25.08.2025

Duration Of Monitoring : 22.08.2025 To 23.08.2025

Time Of Monitoring : 10.40 AM To 10.40 AM (24 Hrs.)

Sample ID No : E-144/08

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 : CLOUDY Ambient Temperature: 36.0 °C

Wind Direction : E To W

Equipment Used : Respirable Dust Sampler (PM<sub>10</sub>) + Fine Particulate Sampler (PM<sub>2.5</sub>)

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1	Particulate Matters, (PM <sub>10</sub> )	µg/m <sup>3</sup>	81.6	For 24 Hrs.=100	IS 5182 (Part-23)
2	Particulate Matters, (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	36.3	For 24 Hrs.=60	IS 5182 (Part-24)
3	Sulphur Dioxide, (SO <sub>2</sub> )	µg/m <sup>3</sup>	12.7	For 24 Hrs.=80	IS: 5182 (Part-2)
4	Nitrogen Dioxide, (NO <sub>2</sub> )	µg/m <sup>3</sup>	28.0	For 24 Hrs.=80	IS: 5182 (Part-6)
5	Ammonia, (NH <sub>3</sub> )	µg/m <sup>3</sup>	<20.0	For 24 Hrs.=400	IS 5182 (Part-25)
6	Ozone, (O <sub>3</sub> )	µg/m <sup>3</sup>	25.0	For 1 Hrs.=180	IS: 5182 (Part.-9)
7	Lead, (Pb)	µg/m <sup>3</sup>	<0.05	For 24 Hrs.=1	IS 5182 (Part-22)

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



Page 1 of 1

For Enviro Tech Services Pvt. Ltd.  
AUTHORIZED SIGNATORY

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

Pushkar Mittal  
Lab In-charge

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 8130255461



## TEST REPORT

TEST REPORT NO.: ETS/144/08/2025

DATE OF REPORT: 25.08.2025

### 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 <sup>3</sup>	<1.0	For Annual=06	CPCB, Vol.-1, Pg.-48
9	Nickel, (Ni)	ng/m <sup>3</sup>	<1.0	For Annual=20	IS 5182 (Part-26)
10	Carbon Monoxide, (CO)	mg/m <sup>3</sup>	0.47	For 1 Hrs.=4	IS 5182 : Part 10
11	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	<0.05	For Annual=01	IS: 5182 (Part-12)
12	Benzene, (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	<1.0	For Annual =5	IS 5182 (Part-11)

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



Page 1 of 1

  
For Enviro Tech Services Pvt. Ltd.  
**AUTHORIZED SIGNATORY**

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

Pushkar Mittal  
Lab in-charge

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## TEST REPORT

TEST REPORT NO.: ETS/1433-1/08/2025

ULRNO.TC153902500014331F

DATE OF REPORT: 14.08.2025

## 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

: 08.08.2025

Analysis Start Date

: 11.08.2025

Analysis End Date

: 14.08.2025

Sample ID No

: 1433-1

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	---	6.35	5.5 - 9.0	5.5 - 9.0	APHA 4500-H+
2	Total Suspended Solids,(TSS)	mg/L	14.2	100	600	APHA 2540-D
3	Total Dissolved Solids,(TDS)	mg/L	875.1	2100	Not Specified	APHA 2540-C
4	Oil & Grease, (O & G )	mg/L	2.7	10	20	APHA 5520-B
5	Biochemical Oxygen Demand(BOD <sub>5</sub> ,27°C)	mg/L	13.0	30	350	IS: 3025 (Part-44)
6	Chemical Oxygen Demand,(COD)	mg/L	114.0	250	Not Specified	APHA 5220-B

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



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

For Enviro Tech Services Pvt. Ltd.  
**AUTHORIZED SIGNATORY**

Pushkar Mittal  
Lab in-charge

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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, 8130255461



## TEST REPORT

TEST REPORT NO.: ETS/1433-1/08/2025

DATE OF REPORT: 14.08.2025

### WASTE WATER SAMPLE ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per CPCB)		Test Method
				Inland Surface Water	Public Sewers	
7	Iron, (Fe)	mg/L	0.24	3	3	APHA-3120B
8	Total Hardness, (CaCO <sub>3</sub> )	mg/L	365.0	Not Specified	Not Specified	APHA 2340-C

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



For Enviro Tech Services Pvt. Ltd.  
**AUTHORIZED SIGNATORY**

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

Pushkar Mittal  
Lab In-charge

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TC-15390



## TEST REPORT

TEST REPORT NO.: ETS/1800/10/2025

ULRNO.TC153902500001800F

DATE OF REPORT: 20.10.2025

## 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 : 16.10.2025  
Analysis Start Date : 17.10.2025  
Analysis End Date : 20.10.2025  
Sample ID No : 1800  
Sampling Done By : ETS STAFF  
Sampling Description : GROUND WATER  
Sampling Location : NEAR RFO YARD AREA  
Sampling Method : IS:17614(PART1)  
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:11000: 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	...	Disagreeable	Agreeable	Agreeable	APHA 2160-C
4	pH	...	7.28	6.5 - 8.5	No Relaxation	APHA 4500-H+
5	Turbidity	NTU	<1.0	1	5	APHA 2130-B
6	Fluoride,(F)	mg/L	0.17	1	1.5	APHA 4500:(F <sup>-</sup> )-D
7	Total Dissolved Solids,(TDS)	mg/L	1872.5	500	2000	APHA 2540-C
8	Chlorine (Residual)	mg/L	<0.1	0.2	1	APHA 4500:(Cl <sup>-</sup> )-B
9	Magnesium,(Mg)	mg/L	65.2	30	100	APHA 3500:(Mg)-B
10	Total Hardness,(CaCO <sub>3</sub> )	mg/L	575.0	200	600	APHA 2340-C
11	Calcium,(Ca)	mg/L	122.0	75	200	APHA 3500:(Ca)-B
12	Chloride,(Cl)	mg/L	814.1	250	1000	APHA 4500:(Cl <sup>-</sup> )-B
13	Nitrate,(NO <sub>3</sub> )	mg/L	2.12	45	No Relaxation	APHA 4500:(NO <sub>3</sub> )-B
14	Sulphate,(SO <sub>4</sub> )	mg/L	164.0	200	400	APHA 4500:(SO <sub>4</sub> )-E
HEAVY METALS;-						
15	Copper,(Cu)	mg/L	<0.01	0.10	1.5	APHA 3120B
16	Manganese,(Mn)	mg/L	<0.01	0.1	0.3	APHA-3120B
17	Iron,(Fe)	mg/L	0.27	1	No Relaxation	APHA-3120B



AUTHORIZED SIGNATORY

(Quality Manager)

ETS/LAB/TR-01, Issue No. 06, Date 01.10.2022, Amd. No. 10 Date 01.10.2022

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## TEST REPORT

TEST REPORT NO.: ETS/1800/10/2025

DATE OF REPORT: 20.10.2025

### WATER SAMPLE ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:11000: 2012 )		Test Method
				Desirable	Permissible	
MICROBIOLOGICAL PARAMETER;						
18	Total Coliform	MPN/ 100mL	<2	Not Specified		IS 1622
19	Escherichia coli	MPN/ 100mL	<2	Not Specified		IS 1622

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



For Enviro Tech Services Pvt. Ltd.

*Joyita*  
AUTHORIZED SIGNATORY  
Joyita Neogi  
(Microbiologist)

Format No ETS/LAB/TR-01, Issue No. 06, Date 01.10.2022, Amd. No. 10 Date 01.10.2022

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TC-15390



## TEST REPORT

TEST REPORT NO.: ETS/1601/10/2025

ULRNO.TC153902500001801F

DATE OF REPORT: 20.10.2025

## 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 : 16.10.2025  
Analysis Start Date : 17.10.2025  
Analysis End Date : 20.10.2025  
Sample ID No : 1801  
Sampling Done By : ETS STAFF  
Sampling Description : GROUND WATER  
Sampling Location : NEAR PARK MAGNUM AREA  
Sampling Method : IS:17614(PART1)  
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:11000: 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	...	Disagreeable	Agreeable	Agreeable	APHA 2160-C
4	pH	...	7.15	6.5 - 8.5	No Relaxation	APHA 4500-H+
5	Turbidity	NTU	<1.0	1	5	APHA 2130-B
6	Fluoride,(F)	mg/L	0.24	1	1.5	APHA 4500:(F <sup>-</sup> )-D
7	Total Dissolved Solids,(TDS)	mg/L	1408.0	500	2000	APHA 2540-C
8	Chlorine (Residual)	mg/L	<0.1	0.2	1	APHA 4500:(Cl <sup>-</sup> )-B
9	Magnesium,(Mg)	mg/L	63.0	30	100	APHA 3500:(Mg)-B
10	Total Hardness,(CaCO <sub>3</sub> )	mg/L	548.0	200	600	APHA 2340-C
11	Calcium,(Ca)	mg/L	105.0	75	200	APHA 3500:(Ca)-B
12	Chloride,(Cl)	mg/L	792.0	250	1000	APHA 4500:(Cl <sup>-</sup> )-B
13	Nitrate,(NO <sub>3</sub> )	mg/L	1.87	45	No Relaxation	APHA 4500:(NO <sub>3</sub> )-B
14	Sulphate,(SO <sub>4</sub> )	mg/L	159.0	200	400	APHA 4500:(SO <sub>4</sub> )-E
HEAVY METALS:-						
15	Iron,(Fe)	mg/L	0.18	1	No Relaxation	APHA-3120B
16	Copper,(Cu)	mg/L	<0.01	0.10	1.5	APHA 3120B
17	Manganese,(Mn)	mg/L	<0.01	0.1	0.3	APHA-3120B



Format No ETS/LAB/TR-01, Issue No. 06, Date 01.10.2022, Amd. No. 10 Date 01.10.2022

For Enviro Tech Services Pvt. Ltd.

**AUTHORIZED SIGNATORY**  
Md Humraj  
(Quality Manager)

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## TEST REPORT

TEST REPORT NO.: ETS/1801/10/2025

DATE OF REPORT: 20.10.2025

### WATER SAMPLE ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:11000: 2012 )		Test Method
				Desirable	Permissible	
MICROBIOLOGICAL PARAMETER;						
18	Total Coliform	MPN/ 100mL	<2	Not Specified		IS 1622
19	Escherichia coli	MPN/ 100mL	<2	Not Specified		IS 1622

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



For Enviro Tech Services Pvt. Ltd.

*Joyita*  
AUTHORIZED SIGNATORY  
Joyita Neogi  
(Microbiologist)

Format No ETS/LAB/TR-01, Issue No. 06, Date 01.10.2022, Amd. No. 10 Date 01.10.2022

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TC-15390



## TEST REPORT

TEST REPORT NO.: ETS/1802/10/2025

ULRNO, TC153902500001802F

DATE OF REPORT: 20.10.2025

## 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

: 16.10.2025

Analysis Start Date

: 17.10.2025

Analysis End Date

: 20.10.2025

Sample ID No

: 1802

Sampling Done By

: ETS STAFF

Sampling Description

: GROUND WATER

Sampling Location

: NEAR H&T MANDIR AREA

Sampling Method

: IS:17614(PART1)

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:11000: 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	...	Disagreeable	Agreeable	Agreeable	APHA 2160-C
4	pH	...	7.38	6.5 - 8.5	No Relaxation	APHA 4500-H+
5	Turbidity	NTU	<1.0	1	5	APHA 2130-B
6	Fluoride,(F)	mg/L	0.21	1	1.5	APHA 4500:(F)-D
7	Total Dissolved Solids,(TDS)	mg/L	1662.0	500	2000	APHA 2540-C
8	Chlorine (Residual)	mg/L	<0.1	0.2	1	APHA 4500:(Cl)-B
9	Magnesium,(Mg)	mg/L	49.5	30	100	APHA 3500:(Mg)-B
10	Total Hardness,(CaCO <sub>3</sub> )	mg/L	527.0	200	600	APHA 2340-C
11	Calcium,(Ca)	mg/L	122.0	75	200	APHA 3500:(Ca)-B
12	Chloride,(Cl)	mg/L	739.0	250	1000	APHA 4500:(Cl)-B
13	Nitrate,(NO <sub>3</sub> )	mg/L	2.17	45	No Relaxation	APHA 4500:(NO <sub>3</sub> )-B
14	Sulphate,(SO <sub>4</sub> )	mg/L	146.0	200	400	APHA 4500:(SO <sub>4</sub> )-E
HEAVY METALS:-						
15	Copper,(Cu)	mg/L	<0.01	0.10	1.5	APHA 3120B
16	Manganese,(Mn)	mg/L	<0.01	0.1	0.3	APHA-3120B
17	Iron,(Fe)	mg/L	0.22	1	No Relaxation	APHA-3120B



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

(Signature)  
(Manager)

Formal No ETS/LAB/TR-01, Issue No. 06, Date 01.10.2022, Amd. No. 10 Date 01.10.2022

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## TEST REPORT

TEST REPORT NO.: ETS/1802/10/2025

DATE OF REPORT: 20.10.2025

### WATER SAMPLE ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:11000: 2012 )		Test Method
				Desirable	Permissible	
MICROBIOLOGICAL PARAMETER;						
18	Total Coliform	MPN/ 100mL	<2	Not Specified		IS 1622
19	Escherichia coli	MPN/ 100mL	<2	Not Specified		IS 1622

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



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

Joyita Neogi  
(Microbiologist)

Format No ETS/LAB/TR-01, Issue No. 05, Date 01.10.2022, Amd. No. 10 Date 01.10.2022

#### Note :-

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# ENVIRO TECH SERVICES PVT. LTD.

An Analytical Laboratory

(AN ISO 45001:2018 Certified Laboratory)

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

E-mail : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 8130255461



TC-15390



## TEST REPORT

TEST REPORT NO.: ETS/1803/10/2025

ULRNO: TC153902500001803F

DATE OF REPORT: 20.10.2025

## 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 : 16.10.2025  
Analysis Start Date : 17.10.2025  
Analysis End Date : 20.10.2025  
Sample ID No : 1803  
Sampling Done By : ETS STAFF  
Sampling Description : GROUND WATER  
Sampling Location : NEAR FIRE TANK AREA  
Sampling Method : IS:17614(PART1)  
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:11000: 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	...	Disagreeable	Agreeable	Agreeable	APHA 2160-C
4	pH	...	7.27	6.5 - 8.5	No Relaxation	APHA 4500-H+
5	Turbidity	NTU	<1.0	1	5	APHA 2130-B
6	Fluoride,(F)	mg/L	0.20	1	1.5	APHA 4500:(F)-D
7	Total Dissolved Solids,(TDS)	mg/L	1888.5	500	2000	APHA 2540-C
8	Chlorine (Residual)	mg/L	<0.1	0.2	1	APHA 4500:(Cl)-B
9	Magnesium,(Mg)	mg/L	57.5	30	100	APHA 3500:(Mg)-B
10	Total Hardness,(CaCO <sub>3</sub> )	mg/L	578.0	200	600	APHA 2340-C
11	Calcium,(Ca)	mg/L	131.0	75	200	APHA 3500:(Ca)-B
12	Chloride,(Cl)	mg/L	102.2	250	1000	APHA 4500:(Cl <sup>-</sup> )-B
13	Nitrate,(NO <sub>3</sub> <sup>-</sup> )	mg/L	2.44	45	No Relaxation	APHA 4500:(NO <sub>3</sub> <sup>-</sup> )-B
14	Sulphate,(SO <sub>4</sub> <sup>2-</sup> )	mg/L	154.0	200	400	APHA 4500:(SO <sub>4</sub> <sup>2-</sup> )-E
HEAVY METALS:-						
15	Copper,(Cu)	mg/L	<0.01	0.10	1.5	APHA 3120B
16	Manganese,(Mn)	mg/L	<0.01	0.1	0.3	APHA-3120B
17	Iron,(Fe)	mg/L	0.23	1	No Relaxation	APHA-3120B



For Enviro Tech Services Pvt. Ltd.

**AUTHORIZED SIGNATORY**

Md Humraj  
(Quality Manager)

Form No ETS/LAB/TR-01, Issue No. 06, Date 01.10.2022, Amd. No. 10 Date 01.10.2022

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TEST REPORT NO.: ETS/1803/10/2025

DATE OF REPORT: 20.10.2025

## TEST REPORT

### WATER SAMPLE ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:11000: 2012 )		Test Method
				Desirable	Permissible	
MICROBIOLOGICAL PARAMETER;						
18	Total Coliform	MPN/ 100mL	<2	Not Specified		IS 1622
19	Escherichia coli	MPN/ 100mL	<2	Not Specified		IS 1622

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



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

Joyita Neogi  
(Microbiologist)

Form No ETS/LAB/TR-01, Issue No. 06, Date 01.10.2022, Amd. No. 10 Date 01.10.2022

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TC-15390



## TEST REPORT

TEST REPORT NO.: ETS/1804/10/2025

ULRNO.TC153902500001804F

DATE OF REPORT: 20.10.2025

## 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 : 16.10.2025  
Analysis Start Date : 17.10.2025  
Analysis End Date : 20.10.2025  
Sample ID No : 1804  
Sampling Done By : ETS STAFF  
Sampling Description : GROUND WATER  
Sampling Location : NEAR BOREWELL  
Sampling Method : IS:17614(PART1)  
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:11000: 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	...	Disagreeable	Agreeable	Agreeable	APHA 2160-C
4	pH	...	7.38	6.5 - 8.5	No Relaxation	APHA 4500-H+
5	Turbidity	NTU	<1.0	1	5	APHA 2130-B
6	Fluoride,(F)	mg/L	0.26	1	1.5	APHA 4500:(F)-D
7	Total Dissolved Solids,(TDS)	mg/L	1955.4	500	2000	APHA 2540-C
8	Chlorine (Residual)	mg/L	<0.1	0.2	1	APHA 4500:(Cl)-B
9	Magnesium,(Mg)	mg/L	62.0	30	100	APHA 3500:(Mg)-B
10	Total Hardness,(CaCO <sub>3</sub> )	mg/L	545.0	200	600	APHA 2340-C
11	Calcium,(Ca)	mg/L	118.1	75	200	APHA 3500:(Ca)-B
12	Chloride,(Cl)	mg/L	872.4	250	1000	APHA 4500:(Cl- )-B
13	Nitrate,(NO <sub>3</sub> )	mg/L	2.36	45	No Relaxation	APHA 4500:(NO <sub>3</sub> )-B
14	Sulphate,(SO <sub>4</sub> )	mg/L	139.0	200	400	APHA 4500:(SO <sub>4</sub> )-E
HEAVY METALS:-						
15	Copper,(Cu)	mg/L	<0.01	0.10	1.5	APHA 3120B
16	Manganese,(Mn)	mg/L	<0.01	0.1	0.3	APHA-3120B
17	Iron,(Fe)	mg/L	0.20	1	No Relaxation	APHA-3120B



For Enviro Tech Services Pvt. Ltd.

**AUTHORIZED SIGNATORY**

Md Humraj  
(Quality Manager)

Formal No ETS/LAB/TR-01, Issue No. 06, Date 01.10.2022, Amd. No. 10 Date 01.10.2022

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TEST REPORT NO.: ETS/1804/10/2025

DATE OF REPORT: 20.10.2025

## TEST REPORT

### WATER SAMPLE ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per IS:11000: 2012 )		Test Method
				Desirable	Permissible	
MICROBIOLOGICAL PARAMETER;						
18	Total Coliform	MPN/ 100mL	<2	Not Specified		IS 1622
19	Escherichia coli	MPN/ 100mL	<2	Not Specified		IS 1622

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



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

Joyita Neogi  
(Microbiologist)

Form No ETS/LAB/TR-01, Issue No. 05, Date 01.10.2022, Amd. No. 10 Date 01.10.2022

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## TEST REPORT

TEST REPORT NO.: ETS/3533/05/2025

ULRNO.TC153902500003533F

DATE OF REPORT: 03.06.2025

## NOISE MONITORING REPORT

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

Date of Monitoring : 29.05.2025

Monitoring Start Date : 29.05.2025

Monitoring End Date : 30.05.2025

Duration Of Monitoring : 24 HOURS

Sample ID No : 3533

Monitoring Done By : ETS STAFF

Sampling Location : NEAR DG SET AREA

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)	70.8	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	62.6	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\*\*\*\*\*



Formal No ETS/LAB/TR-02, Issue No. 05, Date 01.04.2019, Amend. No. 04 Date 01.04.2019

For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY  
(Quality Manager)

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## TEST REPORT

TEST REPORT NO.: ETS/3530/05/2025 ULRNO.TC153902500003530F DATE OF REPORT: 03.06.2025

## NOISE MONITORING REPORT

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

Date of Monitoring : 29.05.2025  
Monitoring Start Date : 29.05.2025  
Monitoring End Date : 30.05.2025  
Duration Of Monitoring : 24 HOURS  
Sample ID No : 3530  
Monitoring Done By : ETS STAFF  
Sampling Location : NEAR MAIN GATE  
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)	67.4	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	56.1	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\*\*\*\*\*



For Enviro Tech Services Pvt. Ltd.

Mid Humraj  
(Quality Manager)  
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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## TEST REPORT

TEST REPORT NO.: ETS/3531/05/2025

ULRNO.TC153902500003531F

DATE OF REPORT: 03.06.2025

## NOISE MONITORING REPORT

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

Date of Monitoring : 29.05.2025

Monitoring Start Date : 29.05.2025

Monitoring End Date : 30.05.2025

Duration Of Monitoring : 24 HOURS

Sample ID No : 3531

Monitoring Done By : ETS STAFF

Sampling Location : NEAR ETP YARD AREA

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)	69.3	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	60.8	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\*\*\*\*\*



For Enviro Tech Services Pvt. Ltd.

**AUTHORIZED SIGNATORY**  
Md. Humair  
(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/3532/05/2025

ULRNO.TC153902500003532F

DATE OF REPORT: 03.06.2025

## NOISE MONITORING REPORT

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

Date of Monitoring : 29.05.2025

Monitoring Start Date : 29.05.2025

Monitoring End Date : 30.05.2025

Duration Of Monitoring : 24 HOURS

Sample ID No : 3532

Monitoring Done By : ETS STAFF

Sampling Location : NEAR SHERWANI AREA

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)	64.5	75	IS: 9989
2	Night Time Noise Level	Leq :dB (A)	53.2	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\*\*\*\*\*



For Enviro Tech Services Pvt. Ltd.

**AUTHORIZED SIGNATORY**  
Md Humayun (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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TC-15390

## TEST REPORT

TEST REPORT NO.: ETS/1351-1/08/2025 ULRNO TC153902500013511F DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025  
Analysis Start Date : 22.08.2025  
Analysis End Date : 25.08.2025  
Duration Of Sampling : 30.0 MIN  
Sample ID No. : 1351-1  
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 : H.C.L  
Stack Height Above Ground : 27.0 MTR.  
Stack Dia At The Top : 800.0 MM  
Material Of Construction : F.R.P  
Attached APCS : WET SCRUBBER  
Normal Operating Schedule : AS PER REQUIREMENTS  
Ambient Temperature : 34.0 °C  
Flue Gas Temperature : 62.0 °C  
Velocity Of Flue Gases : 9.9 MTR./SEC.  
Quantity Of Emission Discharged : 15936.7 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters (PM)	mg/Nm <sup>3</sup>	18.5	IS-11255 (Part-1)
2	Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	4.1	IS-11255 (Part-2)
3	Oxide of Nitrogen (NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	10.2	IS-11255 (Part-7)
4	Carbon Monoxide (CO)	%v/v	0.21	IS: 13270: 2008
5	Carbon Dioxide (CO <sub>2</sub> )	%v/v	0.40	IS: 13270: 2008
6	Oxygen (O <sub>2</sub> )	%v/v	9.1	IS: 13270: 2008
7	Zinc (Zn)	mg/Nm <sup>3</sup>	<0.05	USEPA 6010D



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

Md Humraj  
(Quality Manager)

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

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ETS-LAB

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## TEST REPORT

TEST REPORT NO.: ETS/1351-1/08/2025

DATE OF REPORT: 25.08.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

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

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



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

(Quality Manager)

Format No ETS/LAB/TR-01; Issue No. 06, Date 01.05.2022, Amd. No. 06 Date 01.05.2025

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## TEST REPORT

TEST REPORT NO.: ETS/1351-2/08/2025 ULRNO.TC153902500013512F DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025  
Analysis Start Date : 22.08.2025  
Analysis End Date : 25.08.2025  
Duration Of Sampling : 30.0 MIN  
Sample ID No. : 1351-2  
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 : H.C.L  
Stack Height Above Ground : 27.0 MTR.  
Stack Dia At The Top : 850.0 MM  
Material Of Construction : F.R.P  
Attached APCS : WET SCRUBBER  
Normal Operating Schedule : AS PER REQUIREMENTS  
Ambient Temperature : 34.0 °C  
Flue Gas Temperature : 71.0 °C  
Velocity Of Flue Gases : 10.3 MTR./SEC.  
Quantity Of Emission Discharged : 9064.8 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters (PM)	mg/Nm <sup>3</sup>	10.9	IS-11255 (Part-1)
2	Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen (NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide (CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide (CO <sub>2</sub> )	%v/v	<1.0	IS: 13270: 2008
6	Oxygen (O <sub>2</sub> )	%v/v	9.6	IS: 13270: 2008
7	Zinc (Zn)	mg/Nm <sup>3</sup>	<0.05	USEPA 6010D



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY  
Mid Humraj  
(Quality Manager)

Format No ETS/LAB/TR-01, Issue No. 05, Date 01.05.2022, Amd. No. 05 Date 01.05.2023

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ETS-LAB

# ENVIRO TECH SERVICES PVT. LTD.

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, 8130255461

## TEST REPORT

TEST REPORT NO.: ETS/1351-2/08/2025

DATE OF REPORT: 25.06.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

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

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



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY  
(Quality Manager)

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

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## TEST REPORT

TEST REPORT NO.: ETS/1351-3/08/2025 ULRNO.TC153902500013513F DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025  
Analysis Start Date : 22.08.2025  
Analysis End Date : 25.08.2025  
Duration Of Sampling : 30.0 MIN  
Sample ID No. : 1351-3  
Sampling Done By : ETS STAFF  
Sampling Method : ETS/STP/STACK-01  
Stack Attached To : H & T FURNACE NO.1  
Capacity Of Stack : --  
Quantity Of Fuel Used : ---  
Type Of Fuel Used : L.N.G  
Stack Height Above Ground : 47.0 MTR.  
Stack Dia At The Top : 350.0 MM  
Material Of Construction : M.S  
Attached APCS : NIL  
Normal Operating Schedule : 24.0 HOURS PER DAY  
Ambient Temperature : 34.0°C  
Flue Gas Temperature : 78.0 °C  
Velocity Of Flue Gases : 12.1 MTR./SEC.  
Quantity Of Emission Discharged : 3557.4 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters, (PM)	mg/Nm <sup>3</sup>	12.1	IS-11255 (Part-1)
2	Sulphur Dioxide, (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen, (NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide, (CO)	%v/v	<0.1	IS: 13270
5	Carbon Dioxide, (CO <sub>2</sub> )	%v/v	<1.0	IS: 13270
6	Oxygen, (O <sub>2</sub> )	%v/v	10.2	IS: 13270
7	Lead, (Pb)	mg/Nm <sup>3</sup>	<0.05	USEPA 6010D
8	Zinc, (Zn)	mg/Nm <sup>3</sup>	<0.05	USEPA 6010D



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY  
(Quality Manager)

Format No ETS/LAB/TR-05, Issue No: 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2024

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 8130255461

## TEST REPORT

TEST REPORT NO.: ETS/1351-3/08/2025

DATE OF REPORT: 25.08.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

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

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



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

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

Md Humraj  
(Quality Manager)

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## TEST REPORT

TEST REPORT NO.: ETS/1351-4/08/2025 ULRNO.TC153902500013514F DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025  
Analysis Start Date : 22.08.2025  
Analysis End Date : 25.08.2025  
Duration Of Sampling : 30.0 MIN  
Sample ID No. : 1351-4  
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 : 582 NM<sup>3</sup>/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 : 34.0°C  
Flue Gas Temperature : 127.0°C  
Velocity Of Flue Gases : 12.6 MTR./SEC.  
Quantity Of Emission Discharged : 26477.5 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters.(PM)	mg/Nm <sup>3</sup>	13.4	IS-11255 (Part-1)
2	Sulphur Dioxide.(SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen.(NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide.(CO)	%v/v	<0.1	IS-13270-2008
5	Carbon Dioxide.(CO <sub>2</sub> )	%v/v	<1.0	IS-13270-2008
6	Oxygen.(O <sub>2</sub> )	%v/v	8.2	IS-13270-2008
7	Lead.(Pb)	mg/Nm <sup>3</sup>	<0.05	USEPA 6010D
8	Zinc.(Zn)	mg/Nm <sup>3</sup>	<0.05	USEPA 6010D



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY  
Md Humraj  
(Quality Manager)

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

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## TEST REPORT

TEST REPORT NO.: ETS/1351-4/08/2025

DATE OF REPORT: 25.08.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

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

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



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

(Quality Manager)

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

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TC-15390

## TEST REPORT

TEST REPORT NO.: ETS/1351-508/2025 ULRNO: TC153902500013515F DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025  
Analysis Start Date : 22.08.2025  
Analysis End Date : 25.08.2025  
Duration Of Sampling : 30.0 MIN  
Sample ID No. : 1351-5  
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 : 460.0 MM  
Material Of Construction : M.S  
Attached APCS : ----  
Normal Operating Schedule : 24.0 HOURS PER DAY  
Ambient Temperature : 34.0°C  
Flue Gas Temperature : 121.0°C  
Velocity Of Flue Gases : 13.0 MTR./SEC.  
Quantity Of Emission Discharged : 5900.7 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters, (PM)	mg/Nm <sup>3</sup>	14.1	IS-11255 (Part-1)
2	Sulphur Dioxide, (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen, (NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide, (CO)	%v/v	<0.1	IS-13270: 2008
5	Carbon Dioxide, (CO <sub>2</sub> )	%v/v	<1.0	IS-13270: 2008
6	Oxygen, (O <sub>2</sub> )	%v/v	11.5	IS-13270: 2008
7	Lead, (Pb)	mg/Nm <sup>3</sup>	<0.05	USEPA 60100
8	Zinc, (Zn)	mg/Nm <sup>3</sup>	<0.05	USEPA 60100



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

Md Humraj  
(Quality Manager)

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

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# ENVIRO TECH SERVICES PVT. LTD.

An Analytical Laboratory



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## TEST REPORT

TEST REPORT NO.: ETS/1351-5/08/2025

DATE OF REPORT: 25.08.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

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

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



For Enviro Tech Services Pvt. Ltd.

**AUTHORIZED SIGNATORY**

Md Rumraj  
(Quality Manager)

Format No ETS/LAB/IR-01, Issue No. 05, Date 01.05.2022, Amnd. No. 05 Date 01.05.2022

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TC-15390

## TEST REPORT

TEST REPORT NO.: ETS/1351-6/08/2025

ULRNO: TC153902500013516F

DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025  
Analysis Start Date : 22.08.2025  
Analysis End Date : 25.08.2025  
Duration Of Sampling : 30.0 MIN  
Sample ID No. : 1351-6  
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 : 526.0 MM  
Material Of Construction : M.S  
Attached APCS : ----  
Normal Operating Schedule : 24.0 HOURS PER DAY  
Ambient Temperature : 34.0°C  
Flue Gas Temperature : 110.0°C  
Velocity Of Flue Gases : 11.6 MTR./SEC.  
Quantity Of Emission Discharged : 7112.1 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters, (PM)	mg/Nm <sup>3</sup>	12.3	IS-11255 (Part-1)
2	Sulphur Dioxide, (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen, (NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide, (CO)	%v/v	<0.1	IS-13270: 2008
5	Carbon Dioxide, (CO <sub>2</sub> )	%v/v	<1.0	IS-13270: 2008
6	Oxygen, (O <sub>2</sub> )	%v/v	10.5	IS-13270: 2008
7	Lead, (Pb)	mg/Nm <sup>3</sup>	<0.05	USEPA 6010D
8	Zinc, (Zn)	mg/Nm <sup>3</sup>	<0.05	USEPA 6010D



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY  
(Quality Manager)

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

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## TEST REPORT

TEST REPORT NO.: ETS/1351-6/08/2025

DATE OF REPORT: 25.08.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

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

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



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

Md Humraj  
(Quality Manager)

Format No ETS/LAB/TR-01, Issue No. 06, Date 01.06.2022, Amd. No. 05 Date 01.05.2022

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## TEST REPORT

TEST REPORT NO.: ETS/1351-7/08/2025

ULRNO: TC-153902500013517F

DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025

Analysis Start Date : 22.08.2025

Analysis End Date : 25.08.2025

Duration Of Sampling : 30.0 MIN

Sample ID No. : 1351-7

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 : 34.0°C

Flue Gas Temperature : 135.0°C

Velocity Of Flue Gases : 13.7 MTR./SEC.

Quantity Of Emission Discharged : 4530.8 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters, (PM)	mg/Nm <sup>3</sup>	11.9	IS-11255 (Part-1)
2	Sulphur Dioxide, (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen, (NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide, (CO)	%v/v	<0.1	IS-13270: 2008
5	Carbon Dioxide, (CO <sub>2</sub> )	%v/v	<1.0	IS-13270: 2008
6	Oxygen, (O <sub>2</sub> )	%v/v	10.1	IS-13270: 2008
7	Lead, (Pb)	mg/Nm <sup>3</sup>	<0.05	USEPA 6010D
8	Zinc, (Zn)	mg/Nm <sup>3</sup>	<0.05	USEPA 6010D



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

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

Md Humraj  
(Quality Manager)

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## TEST REPORT

TEST REPORT NO.: ETS/1351-7/08/2025

DATE OF REPORT: 25.08.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

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

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



For Enviro Tech Services Pvt. Ltd.

**AUTHORIZED SIGNATORY**

Formal No ETS/LAB/TR-01, Issue No. 06, Date 01.05.2022, Amd. No. 05 Date 01.05.2022 **Md Humraj**  
(Quality Manager)

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## TEST REPORT

TEST REPORT NO.: ETS/1351-8/08/2025

ULRN: TC153902500013518F

DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025

Analysis Start Date : 22.08.2025

Analysis End Date : 25.08.2025

Duration Of Sampling : 30.0 MIN

Sample ID No. : 1351-8

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 : 34.0°C

Flue Gas Temperature : 120.0°C

Velocity Of Flue Gases : 10.3 MTR./SEC.

Quantity Of Emission Discharged : 10834.5 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters, (PM)	mg/Nm <sup>3</sup>	13.4	IS-11255 (Part-1)
2	Sulphur Dioxide, (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen, (NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide, (CO)	%v/v	<0.1	IS-13270: 2008
5	Carbon Dioxide, (CO <sub>2</sub> )	%v/v	<1.0	IS-13270: 2008
6	Oxygen, (O <sub>2</sub> )	%v/v	12.2	IS-13270: 2008
7	Lead, (Pb)	mg/Nm <sup>3</sup>	<0.05	USEPA 6010D
8	Zinc, (Zn)	mg/Nm <sup>3</sup>	0.21	USEPA 6010D



For Enviro Tech Services Pvt. Ltd.  
AUTHORIZED SIGNATORY

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

Md Humraj  
(Quality Manager)

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph : 9911516076, 8130255461

## TEST REPORT

TEST REPORT NO.: ETS/1351-8/08/2025

DATE OF REPORT: 25.08.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

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

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



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

Mr. Himraj  
(Quality Manager)

Formal No ETS/LAB/TR-01, Issue No. 06, Date 01.05.2022, Amend. No. 05 Date 01.05.2022

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TC-15390

## TEST REPORT

TEST REPORT NO.: ETS/1351-8/08/2025 ULRNO: TC163902600013519F DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025  
Analysis Start Date : 22.08.2025  
Analysis End Date : 25.08.2025  
Duration Of Sampling : 30.0 MIN  
Sample ID No. : 1351-9  
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 : 200.0 x 250.0 MM  
Material Of Construction : M.S  
Attached APCS : ....  
Normal Operating Schedule : 24.0 HOURS PER DAY  
Ambient Temperature : 34.0°C  
Flue Gas Temperature : 115.0°C  
Velocity Of Flue Gases : 12.1 MTR./SEC.  
Quantity Of Emission Discharged : 1520.4 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters, (PM)	mg/Nm <sup>3</sup>	10.2	IS-11255 (Part-1)
2	Sulphur Dioxide, (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen, (NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide, (CO)	%v/v	<0.1	IS-13270: 2008
5	Carbon Dioxide, (CO <sub>2</sub> )	%v/v	<1.0	IS-13270: 2008
6	Oxygen, (O <sub>2</sub> )	%v/v	9.4	IS-13270: 2008
7	Zinc, (Zn)	mg/Nm <sup>3</sup>	0.20	USEPA 6010D

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



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

Quality Manager

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

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TC-15390

## TEST REPORT

TEST REPORT NO.: ETS/1351-10/08/2025 ULRNO: TC153902500135110F DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025

Analysis Start Date : 22.08.2025

Analysis End Date : 25.08.2025

Duration Of Sampling : 30.0 MIN

Sample ID No. : 1351-10

Sampling Done By : ETS STAFF

Sampling Method : ETS/STP/STACK-01

Stack Attached To : GP -1 ZINC PORT FURNACE

Capacity Of Stack : ....

Quantity Of Fuel Used : ....

Type Of Fuel Used : L.N.G

Stack Height Above Ground : 30.0 MTR.

Stack Dia At The Top : 460.0 MM

Material Of Construction : M.S

Attached APCS : ....

Normal Operating Schedule : 24.0 HOURS PER DAY

Ambient Temperature : 34.0°C

Flue Gas Temperature : 113.0°C

Velocity Of Flue Gases : 13.2 MTR./SEC.

Quantity Of Emission Discharged : 6111.2 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters, (PM)	mg/Nm <sup>3</sup>	14.7	IS-11255 (Part-1)
2	Sulphur Dioxide, (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen, (NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide, (CO)	%v/v	<0.1	IS-13270: 2008
5	Carbon Dioxide, (CO <sub>2</sub> )	%v/v	<1.0	IS-13270: 2008
6	Oxygen, (O <sub>2</sub> )	%v/v	13.8	IS-13270: 2008
7	Zinc, (Zn)	mg/Nm <sup>3</sup>	0.32	USEPA 6010D

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



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

For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

Md Humraj  
(Quality Manager)

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TC-15390

## TEST REPORT

TEST REPORT NO.: ETS/1351-11/08/2025 ULRNO.TC153902500135111F DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025  
Analysis Start Date : 22.08.2025  
Analysis End Date : 25.08.2025  
Duration Of Sampling : 30.0 MIN  
Sample ID No. : 1351-11  
Sampling Done By : ETS STAFF  
Sampling Method : ETS/STP/STACK-01  
Stack Attached To : GP -1 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 : 1000.0 MM  
Material Of Construction : M.S  
Attached APCS : ----  
Normal Operating Schedule : 24.0 HOURS PER DAY  
Ambient Temperature : 34.0°C  
Flue Gas Temperature : 125.0°C  
Velocity Of Flue Gases : 10.5 MTR./SEC.  
Quantity Of Emission Discharged : 22266.9 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters, (PM)	mg/Nm <sup>3</sup>	13.9	IS-11255 (Part-1)
2	Sulphur Dioxide, (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen, (NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide, (CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide, (CO <sub>2</sub> )	%v/v	<1.0	IS: 13270: 2008
6	Oxygen, (O <sub>2</sub> )	%v/v	11.8	IS: 13270: 2008
7	Lead, (Pb)	mg/Nm <sup>3</sup>	<0.05	USEPA 60100
8	Zinc, (Zn)	mg/Nm <sup>3</sup>	0.28	USEPA 60100



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

For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

Md Humraj  
(Quality Manager)

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## TEST REPORT

TEST REPORT NO.: ETS/1351-11/08/2025

DATE OF REPORT: 25.08.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

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

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



For Enviro Tech Services Pvt. Ltd.

**AUTHORIZED SIGNATORY**

Md Humraj  
(Quality Manager)

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/1351-12/08/2025 ULRNO.TC153902500135112F DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025  
Analysis Start Date : 22.08.2025  
Analysis End Date : 25.08.2025  
Duration Of Sampling : 30.0 MIN  
Sample ID No. : 1351-12  
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 : 610.0 MM  
Material Of Construction : M.S  
Attached APCS : ....  
Normal Operating Schedule : 24.0 HOURS PER DAY  
Ambient Temperature : 34.0°C  
Flue Gas Temperature : 137.0°C  
Velocity Of Flue Gases : 11.2 MTR/SEC.  
Quantity Of Emission Discharged : 8582.3 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters,(PM)	mg/Nm <sup>3</sup>	10.1	IS-11255 (Part-1)
2	Sulphur Dioxide,(SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide,(CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide,(CO <sub>2</sub> )	%v/v	<1.0	IS: 13270: 2008
6	Oxygen,(O <sub>2</sub> )	%v/v	8.8	IS: 13270: 2008
7	Zinc,(Zn)	mg/Nm <sup>3</sup>	<0.05	USEPA 60100



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY  
(Quality Manager)

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

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## TEST REPORT

TEST REPORT NO.: ETS/1351-12/08/2025

DATE OF REPORT: 25.08.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

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

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



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

Md Humraj  
(Quality Manager)

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## TEST REPORT

TEST REPORT NO.: ETS/1351-13/08/2025 ULRNO TC153902500135113F DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025  
Analysis Start Date : 22.08.2025  
Analysis End Date : 25.08.2025  
Duration Of Sampling : 30.0 MIN  
Sample ID No. : 1351-13  
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 : 370.0 MM  
Material Of Construction : M.S  
Attached APCS : ....  
Normal Operating Schedule : 24.0 HOURS PER DAY  
Ambient Temperature : 34.0°C  
Flue Gas Temperature : 128.0°C  
Velocity Of Flue Gases : 13.6 MTR./SEC  
Quantity Of Emission Discharged : 3920.1 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters, (PM)	mg/Nm <sup>3</sup>	12.5	IS-11255 (Part-1)
2	Sulphur Dioxide, (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen, (NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide, (CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide, (CO <sub>2</sub> )	%v/v	<1.0	IS: 13270: 2008
6	Oxygen, (O <sub>2</sub> )	%v/v	11.1	IS: 13270: 2008
7	Zinc, (Zn)	mg/Nm <sup>3</sup>	<0.05	USEPA 8010D



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

MD Humayun  
(Quality Manager)

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

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## TEST REPORT

TEST REPORT NO.: ETS/1351-13/08/2025

DATE OF REPORT: 25.06.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

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

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



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

(Md Humayun)  
(Quality Manager)

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

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## TEST REPORT

TEST REPORT NO.: ETS/1351-14/08/2025 ULRN: TC153902500135114F DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025

Analysis Start Date : 22.08.2025

Analysis End Date : 25.08.2025

Duration Of Sampling : 30.0 MIN

Sample ID No. : 1351-14

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 : 560.0 MM

Material Of Construction : M.S

Attached APCS : ----

Normal Operating Schedule : 24.0 HOURS PER DAY

Ambient Temperature : 34.0°C

Flue Gas Temperature : 140.0°C

Velocity Of Flue Gases : 13.8 MTR./SEC.

Quantity Of Emission Discharged : 8826.4 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters, (PM)	mg/Nm <sup>3</sup>	11.8	IS-11255 (Part-1)
2	Sulphur Dioxide, (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen, (NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide, (CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide, (CO <sub>2</sub> )	%v/v	<1.0	IS: 13270: 2008
6	Oxygen, (O <sub>2</sub> )	%v/v	9.1	IS: 13270: 2008
7	Zinc, (Zn)	mg/Nm <sup>3</sup>	< 0.05	USEPA 6010D



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY  
Md Humraj  
(Quality Manager)

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

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# ENVIRO TECH SERVICES PVT. LTD.

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, 8130255461

## TEST REPORT

TEST REPORT NO.: ETS/1351-14/08/2025

DATE OF REPORT: 25.08.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

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

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



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

MD Humraj  
(Quality Manager)

Format No ETS/LAB/TR-01, Issue No. 06, Date 01.05.2022, Amend. No. 05 Date 01.05.2023

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## TEST REPORT

TEST REPORT NO.: ETS/1351-15/08/2025 ULRNO:TC153802500135115F DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025  
Analysis Start Date : 22.08.2025  
Analysis End Date : 25.08.2025  
Duration Of Sampling : 30.0 MIN  
Sample ID No. : 1351-15  
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 : 34.0°C  
Flue Gas Temperature : 105.0°C  
Velocity Of Flue Gases : 8.8 MTR./SEC.  
Quantity Of Emission Discharged : 76890.6 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters, (PM)	mg/Nm <sup>3</sup>	14.0	IS-11255 (Part-1)
2	Sulphur Dioxide, (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen, (NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide, (CO)	%v/v	<0.1	IS-13270: 2008
5	Carbon Dioxide, (CO <sub>2</sub> )	%v/v	<1.0	IS-13270: 2008
6	Oxygen, (O <sub>2</sub> )	%v/v	11.9	IS-13270: 2008
7	Zinc, (Zn)	mg/Nm <sup>3</sup>	<0.05	USEPA 60100



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

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/1351-15/08/2025

DATE OF REPORT: 25.08.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Test Method
8	Alkali Fumes	mg/Nm <sup>3</sup>	0.26	NIOSH

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



For Enviro Tech Services Pvt. Ltd.

**AUTHORIZED SIGNATORY**  
Md Humraj  
(Quality Manager)

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/1351-16/08/2025 ULRNO:TC153902500135116F DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025  
Analysis Start Date : 22.08.2025  
Analysis End Date : 25.08.2025  
Duration Of Sampling : 30.0 MIN  
Sample ID No. : 1351-16  
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 : 34.0°C  
Flue Gas Temperature : 80.0°C  
Velocity Of Flue Gases : 9.8 MTR./SEC.  
Quantity Of Emission Discharged : 23330.5 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters, (PM)	mg/Nm <sup>3</sup>	13.3	IS-11255 (Part-1)
2	Sulphur Dioxide, (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen, (NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide, (CO)	%v/v	<0.1	IS-13270: 2008
5	Carbon Dioxide, (CO <sub>2</sub> )	%v/v	<1.0	IS-13270: 2008
6	Oxygen, (O <sub>2</sub> )	%v/v	12.7	IS-13270: 2008
7	Lead, (Pb)	mg/Nm <sup>3</sup>	<0.05	USEPA 6010D
8	Zinc, (Zn)	mg/Nm <sup>3</sup>	<0.05	USEPA 6010D



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY  
(Quality Manager)

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/1351-16/08/2025

DATE OF REPORT: 25.08.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Test Method
9	Acid Mist (HCL)	mg/Nm <sup>3</sup>	<0.02	Volumetric Method
10	Alkali Fumes	mg/Nm <sup>3</sup>	0.12	NIOSH

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



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

For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY  
Mr. Humraj  
(Quality Manager)

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## TEST REPORT

TEST REPORT NO.: ETS/1351-17/08/2025

ULRNO: TC153902500135117F

DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025  
Analysis Start Date : 22.08.2025  
Analysis End Date : 25.08.2025  
Duration Of Sampling : 30.0 MIN  
Sample ID No. : 1351-17  
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 : 602 NM<sup>3</sup>/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°C  
Flue Gas Temperature : 135.0°C  
Velocity Of Flue Gases : 11.7 MTR./SEC.  
Quantity Of Emission Discharged : 24196.8 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters, (PM)	mg/Nm <sup>3</sup>	12.8	IS-11255 (Part-1)
2	Sulphur Dioxide, (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen, (NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide, (CO)	%v/v	<0.1	IS: 13270: 2008
5	Carbon Dioxide, (CO <sub>2</sub> )	%v/v	<1.0	IS: 13270: 2008
6	Oxygen, (O <sub>2</sub> )	%v/v	10.3	IS: 13270: 2008
7	Lead, (Pb)	mg/Nm <sup>3</sup>	<0.05	USEPA 60100
8	Zinc, (Zn)	mg/Nm <sup>3</sup>	<0.05	USEPA 60100



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY  
(Quality Manager)

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/1351-17/06/2025

DATE OF REPORT: 25.08.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

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

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



For Enviro Tech Services Pvt. Ltd.

**AUTHORIZED SIGNATORY**  
Md Humraj  
(Quality Manager)

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

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TC-15390

## TEST REPORT

TEST REPORT NO.: ETS/1351-18/08/2025 ULRNO TC153902500135118F DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025  
Analysis Start Date : 22.08.2025  
Analysis End Date : 25.08.2025  
Duration Of Sampling : 30.0 MIN  
Sample ID No. : 1351-18  
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 : 24.0 HOURS PER DAY  
Ambient Temperature : 34.0°C  
Flue Gas Temperature : 65.0°C  
Velocity Of Flue Gases : 11.2 MTR./SEC.  
Quantity Of Emission Discharged : 9977.9 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters (PM)	mg/Nm <sup>3</sup>	14.9	IS-11255 (Part-1)
2	Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen (NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide (CO)	%v/v	<0.1	IS: 13270
5	Carbon Dioxide (CO <sub>2</sub> )	%v/v	<1.0	IS: 13270
6	Oxygen (O <sub>2</sub> )	%v/v	12.7	IS: 13270
7	Zinc (Zn)	mg/Nm <sup>3</sup>	<0.05	USEPA 8010D



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY  
(Quality Manager)

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/1351-18/08/2025

DATE OF REPORT: 25.08.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

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

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



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

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## TEST REPORT

TEST REPORT NO.: ETS/1351-19/08/2025 ULRNO.TC153902500135119F DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025

Analysis Start Date : 22.08.2025

Analysis End Date : 25.08.2025

Duration Of Sampling : 30.0 MIN

Sample ID No. : 1351-19

Sampling Done By : ETS STAFF

Sampling Method : ETS/STP/STACK-01

Stack Attached To : H & T FURNACE NO.3

Capacity Of Stack : —

Quantity Of Fuel Used : —

Type Of Fuel Used : L.N.G

Stack Height Above Ground : 47.0 MTR.

Stack Dia At The Top : 350.0 MM

Material Of Construction : M.S

Attached APCS : NIL

Normal Operating Schedule : 24.0 HOURS PER DAY

Ambient Temperature : 34.0°C

Flue Gas Temperature : 71.0°C

Velocity Of Flue Gases : 12.6 MTR./SEC.

Quantity Of Emission Discharged : 3777.8 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters (PM)	mg/Nm <sup>3</sup>	12.6	IS-11255 (Part-1)
2	Sulphur Dioxide (SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen (NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide (CO)	%v/v	<0.1	IS: 13270
5	Carbon Dioxide (CO <sub>2</sub> )	%v/v	<1.0	IS: 13270
6	Oxygen (O <sub>2</sub> )	%v/v	9.3	IS: 13270
7	Lead (Pb)	mg/Nm <sup>3</sup>	<0.05	USEPA 60100
8	Zinc (Zn)	mg/Nm <sup>3</sup>	<0.05	USEPA 60100



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY  
(Quality Manager)

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

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## TEST REPORT

TEST REPORT NO. : ETS/1351-19/08/2025

DATE OF REPORT: 25.08.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

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

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



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

(Quality Manager)

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TC-15390

## TEST REPORT

TEST REPORT NO.: ETS/1351-20/08/2025 ULRNO TC153002500135120F DATE OF REPORT: 25.08.2025

### 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 : 21.08.2025  
Analysis Start Date : 22.08.2025  
Analysis End Date : 25.08.2025  
Duration Of Sampling : 30.0 MIN  
Sample ID No. : 1351-20  
Sampling Done By : ETS STAFF  
Sampling Method : ETS/STP/STACK-01  
Stack Attached To : H & T FURNACE NO.2  
Capacity Of Stack : --  
Quantity Of Fuel Used : --  
Type Of Fuel Used : L.N.G  
Stack Height Above Ground : 47.0 MTR.  
Stack Dia At The Top : 350.0 MM  
Material Of Construction : M.S  
Attached APCS : NIL  
Normal Operating Schedule : 24.0 HOURS PER DAY  
Ambient Temperature : 34.0°C  
Flue Gas Temperature : 61.0°C  
Velocity Of Flue Gases : 12.9 MTR./SEC.  
Quantity Of Emission Discharged : 3983.2 m³/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters, (PM)	mg/Nm³	9.2	IS-11255 (Part-1)
2	Sulphur Dioxide, (SO₂)	mg/Nm³	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen, (NOX as NO₂)	mg/Nm³	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide, (CO)	%v/v	<0.1	IS: 13270
5	Carbon Dioxide, (CO₂)	%v/v	<1.0	IS: 13270
6	Oxygen, (O₂)	%v/v	7.1	IS: 13270
7	Lead, (Pb)	mg/Nm³	<0.05	USEPA 6010D
8	Zinc, (Zn)	mg/Nm³	<0.05	USEPA 6010D



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY  
Md Humraj  
(Quality Manager)

Format No ETS/LAB/TR-05, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2020

#### 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.
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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.





ETS-LAB

# ENVIRO TECH SERVICES PVT. LTD.

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, 8130255461

## TEST REPORT

TEST REPORT NO.: ETS/1351-20/08/2025

DATE OF REPORT: 25.08.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

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

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



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY (Quality Manager)

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

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 8130255461



## TEST REPORT

TEST REPORT NO.: ETS/1351-21/08/2025 ULRNO.TC153902500135121F DATE OF REPORT: 25.06.2025

### 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 : 21.08.2025  
Analysis Start Date : 22.08.2025  
Analysis End Date : 25.08.2025  
Duration Of Sampling : 30.0 MIN  
Sample ID No. : 1351-21  
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 : 800.0 MM  
Material Of Construction : F.R.P  
Attached APCS : ----  
Normal Operating Schedule : 24.0 HOURS PER DAY  
Ambient Temperature : 34.0°C  
Flue Gas Temperature : 72.0°C  
Velocity Of Flue Gases : 13.4 MTR./SEC.  
Quantity Of Emission Discharged : 11768.8 m<sup>3</sup>/hr

S. No.	Test Parameter	Unit	Result	Test Method
1	Particulate Matters.(PM)	mg/Nm <sup>3</sup>	15.2	IS-11255 (Part-1)
2	Sulphur Dioxide.(SO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-2)
3	Oxide of Nitrogen,(NOX as NO <sub>2</sub> )	mg/Nm <sup>3</sup>	<5.0	IS-11255 (Part-7)
4	Carbon Monoxide,(CO)	%v/v	<0.1	IS: 13270
5	Carbon Dioxide,(CO <sub>2</sub> )	%v/v	<1.0	IS: 13270
6	Oxygen,(O <sub>2</sub> )	%v/v	13.6	IS: 13270
7	Zinc,(Zn)	mg/Nm <sup>3</sup>	<0.05	USEPA 6010D



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY  
(Quality Manager)

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

#### Notes:-

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 PVT. LTD.

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, 8130255461

## TEST REPORT

TEST REPORT NO.: ETS/1351-21/08/2025

DATE OF REPORT: 25.08.2025

### STACK EMISSION MONITORING AND ANALYSIS REPORT

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

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



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

(Quality Manager)

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

#### Notes:-

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.
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TC-15390

## TEST REPORT

TEST REPORT NO.: ETS/3522/05/2025

ULRNO: TC153902500003522F

DATE OF REPORT: 02.06.2025

## WORK ZONE 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

: 28.05.2025

Analysis Start Date

: 29.05.2025

Analysis End Date

: 02.06.2025

Duration Of Monitoring

: 28.05.2025

Time Of Monitoring

: 10.14 AM To 28.05.2025 8 HOURS, TWA

Sample ID No

: 3522

Sampling Done By

: ETS STAFF

Sampling Location

: INSIDE HITACHI ROLLING 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

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per Factory Act.)	Test Method
1	Room Temperature	°C	36.8	Not Specified	ETS/STP/WZ-01
2	Relative Humidity, (RH)	%	47.6	Not Specified	ETS/STP/WZ-02



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

Md Humraj  
(Quality Manager)

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

Note:-

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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.
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(A GOVERNMENT APPROVED LAB)

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 8130255461

## TEST REPORT

TEST REPORT NO.: ETS/3522/05/2025

DATE OF REPORT: 02.06.2025

### WORK ZONE MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per OSHA)	Test Method
3	Particulate Matters, (PM <sub>10</sub> )	mg/m <sup>3</sup>	0.104	5, OSHA	IS: 5182 (Part-23)
4	Particulate Matters, (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	30.4	For 24 Hrs.-60, CPCB	IS: 5182 (Part-24)
5	Sulphur Dioxide, (SO <sub>2</sub> )	mg/m <sup>3</sup>	0.038	13	ETS/STP/WZ-04
6	Nitrogen Dioxide, (NO <sub>2</sub> )	mg/m <sup>3</sup>	0.070	9	ETS/STP/WZ-05
7	Carbon Monoxide, (CO)	mg/m <sup>3</sup>	0.53	55	ETS/STP/WZ-08
8	Ammonia, (NH <sub>3</sub> )	mg/m <sup>3</sup>	N.D	35	ETS/STP/WZ-06
9	Oil Mist	mg/m <sup>3</sup>	N.D	5	Volumetric

Remark:- N.D. :- Not Detectable.

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



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY

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/3526/05/2025

ULRNO.TC153902500003526F

DATE OF REPORT: 02.06.2025

### WORK ZONE 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 : 28.05.2025  
Analysis Start Date : 29.05.2025  
Analysis End Date : 02.06.2025  
Duration Of Monitoring : 28.05.2025 To 28.05.2025 8 HOURS, TWA  
Time Of Monitoring : 10.31 AM To 6.31 PM  
Sample ID No : 3526  
Sampling Done By : ETS STAFF  
Sampling Location : INSIDE GP-I 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

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per Factory Act.)	Test Method
1	Room Temperature	°C	35.5	Not Specified	ETS/STP/WZ-01
2	Relative Humidity, (RH)	%	49.9	Not Specified	ETS/STP/WZ-02



For Enviro Tech Services Pvt. Ltd.

AUTHORIZED SIGNATORY  
(Quality Manager)

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

#### Note:-

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(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, 8130255461

## TEST REPORT

TEST REPORT NO.: ETS/3528/05/2025

DATE OF REPORT: 02.06.2025

### WORK ZONE MONITORING AND ANALYSIS REPORT

S. No.	Test Parameter	Unit	Result	Specification/Limit (As per OSHA)	Test Method
3	Particulate Matters, (PM <sub>10</sub> )	mg/m <sup>3</sup>	0.112	5, OSHA	IS: 5182 (Part-23)
4	Particulate Matters, (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	36.1	For 24 Hrs. = 60, CPCB	IS: 5182 (Part-24)
5	Sulphur Dioxide, (SO <sub>2</sub> )	mg/m <sup>3</sup>	0.039	13	ETS/STP/WZ-04
6	Nitrogen Dioxide, (NO <sub>2</sub> )	mg/m <sup>3</sup>	0.082	9	ETS/STP/WZ-05
7	Carbon Monoxide, (CO)	mg/m <sup>3</sup>	0.66	55	ETS/STP/WZ-08
8	Ammonia, (NH <sub>3</sub> )	mg/m <sup>3</sup>	N.D	35	ETS/STP/WZ-06
9	Oil Mist	mg/m <sup>3</sup>	N.D	5	Volumetric

Remark:- N.D.:- Not Detectable.

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



For Enviro Tech Services Pvt. Ltd.

**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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# **Annexure-03**



# GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)

Ministry of Jal Shakti

Government of Uttar Pradesh

## Form 8 (E)

[See rules 15(2)]

**(RENEWAL OF AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER)**

**AUTHORIZATION/ NO-OBJECTION CERTIFICATE NO: REG035902**

**VALID FROM 08/06/2023 TO 07/06/2028**

<b>Serial No.: 202406000814</b>			
<b>Name of the Owner</b>	THACHAT VISWANATH NARENDRAN		
<b>Address of the Applicant</b>	Plot No-23, Sahibabad Industrial Area Site-4, Ghaziabad.	<b>Application No.</b>	GZBD0624RIN0900
<b>Date of Submission</b>	14/06/2024	<b>Specimen Signature</b>	
<b>Company Name</b>	TATA STEEL LIMITED	<b>Company Address</b>	Plot No-23, Sahibabad Industrial Area Site-4, Ghazi
<b>Location Particulars</b>			
<b>District</b>	Ghaziabad	<b>Block</b>	Municipal Corporation/Nagar Nigam, Ghaziabad
<b>Plot No./Khasra No.</b>	23, M-1, M-1 addi, M-14, M-24, & Other	<b>Municipality/Corporation</b>	N/A
<b>Ward No./Holding No.</b>	N/A		
<b>Particular of the Existing Well and Pumping Device</b>			
<b>Date of Construction/Sinking of the Well</b>	31/12/1992		
<b>Type of Well</b>	Tube Well/Boring	<b>Depth of the Well (In meter)</b>	75.00
<b>Purpose of well</b>	Industrial	<b>Assembly Size (For Tube Well)</b>	
<b>Strainer Position (For Tube Well)</b>			
<b>Type of Pump Used</b>	Submersible	<b>H.P. of the Pump</b>	17.50
<b>Operational Device</b>	Electric Motor	<b>Rate of Withdrawal (m<sup>3</sup>/hr.)</b>	51.00
<b>Date of Energization (In Case of Electric Pump)</b>	31/12/1992		
<b>Maximum Allowable Rate of Withdrawal (m<sup>3</sup>/hr.):</b>	51.00	<b>Maximum Allowable Running Hours Per Day:</b>	6.00
<b>Maximum Allowable Annual Extraction of Ground Water:</b>	110160.00	<b>Recharge Required</b>	0.00
<b>Reason for renewal of N.O.C.</b> एन.ओ.सी. के नवीनीकरण का कारण	non availability of other source of water		



Against Case	
--------------	--

- This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified for extraction of ground water at a rate not exceeding that as shown at Sl. (3j), for Running Hours per day , and for maximum allowable annual extraction of ground water and is valid subject to the observance of the conditions stated overleaf.
- Holder of this NOC is hereby directed to assure annual recharge of 0.00 cubic meter, as specified under the application form.

### Conditions

- (1) In case of any change of ownership of the proposed well, fresh authorization has to be obtained.
- (2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at SL (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this authorization.
- (3) For the purpose of measuring and recording the quantity of ground water extracted, every said user shall affix digital water flow meters(conforming to BIS/ IS standards) having telemetry system in the abstraction structure, which record rate and quantum of extraction, at outlet of pumping devices and it shall be presumed that the quantity recorded by the meter has been extracted by the said user, until the contrary is proved. The rate of extraction of ground water from the well as shown in item 3(k) shall not exceed to the recorded rate from water meters
- (4) The concerned Authority reserves the right to stop extraction of ground water from the well due to quality hazards or any other reasons, if the situation so demands.
- (5) In case of any change of ownership of the existing well, fresh registration has to be obtained.
- (6) No change of location, design, rate of withdrawal and pumping device in respect of the existing well as indicated at Sl. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this registration.
- (7) n case, any of the particulars l information furnished by the applicant in his application for issuance of this registration is found to be incorrect during verification at any subsequent stage, this registration is liable for cancellation.
- (8) The Certificate of Authorization/ NOC shall be valid for a period of five years from the date of issue. The applicant shall have to apply for renewal through a fresh application, at least ninety days prior to expiry of its validity.
- (9) Construction of piezometers and installation of digital water level recorders with telemetry shall be mandatory for user. Depth and zone tapped of piezometer should be commensurate with that of the pumping well. The data, obtained from digital water level recorders shall be made available to this office on monthly basis.
- (10) Guidelines for Installation of Piezometers and their Monitoring
- Piezometer is a borewell /tube well used only for measuring the water level by lowering the tape/ sounder or automatic water level measuring equipment. It is also used to take water sample for water quality testing whenever needed. General guidelines for installation of piezometers are as follows for compliance of NOC:
  - The piezometer is to be installed/constructed at the minimum of 50 m distance from the pumping well through which ground water is being withdrawn. The diameter of the piezometer should be about 4" to 6".
  - The depth of the piezometer should be same as is case of the pumping well from which ground water is being abstracted. If, more than one piezometer are installed the second piezometer should monitor the shallow ground water regime. It will facilitate shallow as well as deeper ground water aquifer monitoring.
  - No. of piezometers to be constructed & Type of water level monitoring mechanism shall be as per below table:

S.No	Quantum of Ground water withdrawal (cum/day)	No.of piezometers required	Monitring Mechanism	
			Manual	DWLR with Telemetry
1	< 10	0	0	0
2	11 - 50	1	1	0
3	50- 500	1	0	1
4	> 500	2	0	2

- The measuring frequency should be monthly and accuracy of measurement should be up to cm. the reported measurement should be given in meter up to two decimals.
- For measurement of water level sounder or automatic water level recorder (AWLR)/ Digital Automatic water level recorder (DWLR) with telemetry system should be used for accuracy.
- The measurement of water level in piezometer should be taken, only after the pumping from the surrounding tube wells has been stopped for about four to six hours.
- All the details regarding coordinates, reduced level (with respect to mean level), depth, zone taped and assembly lowered should be provided for bringing the piezometer into the Hydrograph Monitoring System for Ground Water Department, Uttar Pradesh, and for its validation.
- The ground water quality has to be monitored twice in a year during pre-monsoon (May/June) and post-monsoon (October/November) periods. Quality may be got analyzed from NABL approved lab. Besides, one sample (1 lt. capacity bottle) to the concerned Director, Ground Water Department, Uttar Pradesh, for chemical analysis.
- A Permanent display board should be installed at piezometer/Tube wells site for providing the location, piezometer/ tube well number, depth and zone tapped of piezometer/tube well for standard referencing and identification.



- Any other site-specific requirement regarding safety and access for measurement may be taken care of.
- (11) Any other condition(s) that may be imposed by the concerned Authority.
- (12) In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- **SPECIFIC CONDITIONS:**
- (A) **For Industrial User:** No Objection Certificate for ground water extraction by industries shall be granted subject to the following specific conditions:
  - i) No Objection Certificate shall be granted only in such cases where local government water supply agencies are not able to supply the desired quantity of water.
  - ii) All industries shall be required to adopt latest water efficient technologies so as to reduce dependence on ground water resources.
  - iii) All industries abstracting ground water in excess of 100 m<sup>3</sup>/d shall be required to undertake annual water audit through Confederation of Indian Industries (CII)/ Federation Indian Chamber of Commerce and Industry (FICCI)/ National Productivity Council (NPC)/ PHD Chamber of Commerce & Industries/ Laghu Udyog Bharati certified auditors and submit audit reports within three months of completion of the same to Ground Water Department, Uttar Pradesh. All such industries shall be required to reduce their ground water use by at least 20% over the next five years through appropriate means.
  - iv) Construction of observation well(s) (piezometer)(s) within the premises and installation of appropriate water level monitoring mechanism as mentioned in General Condition no.10 shall be mandatory for industries drawing/ proposing to draw more than 10 m<sup>3</sup>/day of ground water and. Monitoring of water level shall be done by the project proponent. The piezometer (observation well) shall be constructed at a minimum distance of 50 m from the bore well/production well. Depth and aquifer zone tapped in the piezometer shall be the same as that of the pumping well/ wells. Monthly water level data shall be submitted online to the Ground Water Department, UP.
  - v) The proponent shall be required to adopt roof top rain water harvesting/ recharge in the project premises. Industries which are likely to pollute ground water (chemical, pharmaceutical, dyes, pigments, paints, textiles, tannery, pesticides/ insecticides, fertilizers, slaughter house, explosives etc.) shall store the harvested rain water in surface storage tanks for use in the industry.
  - vi) Injection of treated/ untreated waste water into aquifer system is strictly prohibited.
  - vii) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
- (B) **Infrastructural User:** The No Objection Certificate for ground water abstraction will be granted subject to the following specific conditions:
  - i) In case of infrastructure projects that require dewatering, proponent shall be required to carry out regular monitoring of dewatering discharge rate (using a digital water flow meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
  - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m<sup>3</sup>/day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc.

Date :04/11/2024

Place:Ghaziabad

**This certificate is electronically generated and does not require digital signature**



# GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)

Ministry of Jal Shakti

Government of Uttar Pradesh

## Form 8 (E)

[See rules 15(2)]

**(RENEWAL OF AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER)**

**AUTHORIZATION/ NO-OBJECTION CERTIFICATE NO: REG011452**

**VALID FROM 08/06/2023 TO 07/06/2028**

<b>Serial No.: 202406000820</b>			
<b>Name of the Owner</b>	THACHAT VISWANATH NARENDRAN		
<b>Address of the Applicant</b>	Plot No-23, Sahibabad Industrial Area Site-4, Ghaziabad.	<b>Application No.</b>	GZBD0624RIN0902
<b>Date of Submission</b>	14/06/2024	<b>Specimen Signature</b>	
<b>Company Name</b>	TATA STEEL LIMITED	<b>Company Address</b>	Plot No-23, Sahibabad Industrial Area Site-4, Ghazi
<b>Location Particulars</b>			
<b>District</b>	Ghaziabad	<b>Block</b>	Municipal Corporation/Nagar Nigam, Ghaziabad
<b>Plot No./Khasra No.</b>	23, M-1, M-1 addi, M-14, M-24, & Other	<b>Municipality/Corporation</b>	N/A
<b>Ward No./Holding No.</b>			N/A
<b>Particular of the Existing Well and Pumping Device</b>			
<b>Date of Construction/Sinking of the Well</b>	31/12/1992		
<b>Type of Well</b>	Tube Well/Boring	<b>Depth of the Well (In meter)</b>	75.00
<b>Purpose of well</b>	Industrial	<b>Assembly Size (For Tube Well)</b>	
<b>Strainer Position (For Tube Well)</b>			
<b>Type of Pump Used</b>	Submersible	<b>H.P. of the Pump</b>	17.50
<b>Operational Device</b>	Electric Motor	<b>Rate of Withdrawal (m<sup>3</sup>/hr.)</b>	51.00
<b>Date of Energization (In Case of Electric Pump)</b>	31/12/1992		
<b>Maximum Allowable Rate of Withdrawal (m<sup>3</sup>/hr.):</b>	51.00	<b>Maximum Allowable Running Hours Per Day:</b>	6.00
<b>Maximum Allowable Annual Extraction of Ground Water:</b>	110160.00	<b>Recharge Required</b>	0.00
<b>Reason for renewal of N.O.C.</b> एन.ओ.सी. के नवीनीकरण का कारण	Non Availability of alternate source of water		

Against Case	
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- This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified for extraction of ground water at a rate not exceeding that as shown at Sl. (3j), for Running Hours per day , and for maximum allowable annual extraction of ground water and is valid subject to the observance of the conditions stated overleaf.
- Holder of this NOC is hereby directed to assure annual recharge of 0.00 cubic meter, as specified under the application form.

### Conditions

- (1) In case of any change of ownership of the proposed well, fresh authorization has to be obtained.
- (2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at SL (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this authorization.
- (3) For the purpose of measuring and recording the quantity of ground water extracted, every said user shall affix digital water flow meters(conforming to BIS/ IS standards) having telemetry system in the abstraction structure, which record rate and quantum of extraction, at outlet of pumping devices and it shall be presumed that the quantity recorded by the meter has been extracted by the said user, until the contrary is proved. The rate of extraction of ground water from the well as shown in item 3(k) shall not exceed to the recorded rate from water meters
- (4) The concerned Authority reserves the right to stop extraction of ground water from the well due to quality hazards or any other reasons, if the situation so demands.
- (5) In case of any change of ownership of the existing well, fresh registration has to be obtained.
- (6) No change of location, design, rate of withdrawal and pumping device in respect of the existing well as indicated at Sl. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this registration.
- (7) In case, any of the particulars / information furnished by the applicant in his application for issuance of this registration is found to be incorrect during verification at any subsequent stage, this registration is liable for cancellation.
- (8) The Certificate of Authorization/ NOC shall be valid for a period of five years from the date of issue. The applicant shall have to apply for renewal through a fresh application, at least ninety days prior to expiry of its validity.
- (9) Construction of piezometers and installation of digital water level recorders with telemetry shall be mandatory for user. Depth and zone tapped of piezometer should be commensurate with that of the pumping well. The data, obtained from digital water level recorders shall be made available to this office on monthly basis.
- (10) Guidelines for Installation of Piezometers and their Monitoring
- Piezometer is a borewell /tube well used only for measuring the water level by lowering the tape/ sounder or automatic water level measuring equipment. It is also used to take water sample for water quality testing whenever needed. General guidelines for installation of piezometers are as follows for compliance of NOC:
  - The piezometer is to be installed/constructed at the minimum of 50 m distance from the pumping well through which ground water is being withdrawn. The diameter of the piezometer should be about 4" to 6".
  - The depth of the piezometer should be same as is case of the pumping well from which ground water is being abstracted. If, more than one piezometer are installed the second piezometer should monitor the shallow ground water regime. It will facilitate shallow as well as deeper ground water aquifer monitoring.
  - No. of piezometers to be constructed & Type of water level monitoring mechanism shall be as per below table:

S.No	Quantum of Ground water withdrawal (cum/day)	No.of piezometers required	Monitoring Mechanism	
			Manual	DWLR with Telemetry
1	< 10	0	0	0
2	11 - 50	1	1	0
3	50- 500	1	0	1
4	> 500	2	0	2

- The measuring frequency should be monthly and accuracy of measurement should be up to cm. the reported measurement should be given in meter up to two decimals.
- For measurement of water level sounder or automatic water level recorder (AWLR)/ Digital Automatic water level recorder (DWLR) with telemetry system should be used for accuracy.
- The measurement of water level in piezometer should be taken, only after the pumping from the surrounding tube wells has been stopped for about four to six hours.
- All the details regarding coordinates, reduced level (with respect to mean level), depth, zone taped and assembly lowered should be provided for bringing the piezometer into the Hydrograph Monitoring System for Ground Water Department, Uttar Pradesh, and for its validation.
- The ground water quality has to be monitored twice in a year during pre-monsoon (May/June) and post-monsoon (October/November) periods. Quality may be got analyzed from NABL approved lab. Besides, one sample (1 lt. capacity bottle) to the concerned Director, Ground Water Department, Uttar Pradesh, for chemical analysis.
- A Permanent display board should be installed at piezometer/Tube wells site for providing the location, piezometer/ tube well number, depth and zone tapped of piezometer/tube well for standard referencing and identification.

- Any other site-specific requirement regarding safety and access for measurement may be taken care of.
- (11) Any other condition(s) that may be imposed by the concerned Authority.
- (12) In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- **SPECIFIC CONDITIONS:**
- (A) **For Industrial User:** No Objection Certificate for ground water extraction by industries shall be granted subject to the following specific conditions:
  - i) No Objection Certificate shall be granted only in such cases where local government water supply agencies are not able to supply the desired quantity of water.
  - ii) All industries shall be required to adopt latest water efficient technologies so as to reduce dependence on ground water resources.
  - iii) All industries abstracting ground water in excess of 100 m<sup>3</sup>/d shall be required to undertake annual water audit through Confederation of Indian Industries (CII)/ Federation Indian Chamber of Commerce and Industry (FICCI)/ National Productivity Council (NPC)/ PHD Chamber of Commerce & Industries/ Laghu Udyog Bharati certified auditors and submit audit reports within three months of completion of the same to Ground Water Department, Uttar Pradesh. All such industries shall be required to reduce their ground water use by at least 20% over the next five years through appropriate means.
  - iv) Construction of observation well(s) (piezometer)(s) within the premises and installation of appropriate water level monitoring mechanism as mentioned in General Condition no.10 shall be mandatory for industries drawing/ proposing to draw more than 10 m<sup>3</sup>/day of ground water and. Monitoring of water level shall be done by the project proponent. The piezometer (observation well) shall be constructed at a minimum distance of 50 m from the bore well/production well. Depth and aquifer zone tapped in the piezometer shall be the same as that of the pumping well/ wells. Monthly water level data shall be submitted online to the Ground Water Department, UP.
  - v) The proponent shall be required to adopt roof top rain water harvesting/ recharge in the project premises. Industries which are likely to pollute ground water (chemical, pharmaceutical, dyes, pigments, paints, textiles, tannery, pesticides/ insecticides, fertilizers, slaughter house, explosives etc.) shall store the harvested rain water in surface storage tanks for use in the industry.
  - vi) Injection of treated/ untreated waste water into aquifer system is strictly prohibited.
  - vii) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
- (B) **Infrastructural User:** The No Objection Certificate for ground water abstraction will be granted subject to the following specific conditions:
  - i) In case of infrastructure projects that require dewatering, proponent shall be required to carry out regular monitoring of dewatering discharge rate (using a digital water flow meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
  - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m<sup>3</sup>/day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc.

Date :04/11/2024

Place:Ghaziabad

**This certificate is electronically generated and does not require digital signature**



# GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)

Ministry of Jal Shakti

Government of Uttar Pradesh

## Form 8 (E)

[See rules 15(2)]

**(RENEWAL OF AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER)**

**AUTHORIZATION/ NO-OBJECTION CERTIFICATE NO: REG025906**

**VALID FROM 08/06/2023 TO 07/06/2028**

<b>Serial No.: 202406000817</b>			
<b>Name of the Owner</b>	THACHAT VISWANATH NARENDRAN		
<b>Address of the Applicant</b>	Plot No-23, Sahibabad Industrial Area Site-4, Ghaziabad.	<b>Application No.</b>	GZBD0624RIN0901
<b>Date of Submission</b>	14/06/2024	<b>Specimen Signature</b>	
<b>Company Name</b>	TATA STEEL LIMITED	<b>Company Address</b>	Plot No-23, Sahibabad Industrial Area Site-4, Ghazi
<b>Location Particulars</b>			
<b>District</b>	Ghaziabad	<b>Block</b>	Municipal Corporation/Nagar Nigam, Ghaziabad
<b>Plot No./Khasra No.</b>	23, M-1, M-1 addi, M-14, M-24, & Other	<b>Municipality/Corporation</b>	N/A
<b>Ward No./Holding No.</b>			N/A
<b>Particular of the Existing Well and Pumping Device</b>			
<b>Date of Construction/Sinking of the Well</b>	31/12/1994		
<b>Type of Well</b>	Tube Well/Boring	<b>Depth of the Well (In meter)</b>	75.00
<b>Purpose of well</b>	Industrial	<b>Assembly Size (For Tube Well)</b>	
<b>Strainer Position (For Tube Well)</b>			
<b>Type of Pump Used</b>	Submersible	<b>H.P. of the Pump</b>	17.50
<b>Operational Device</b>	Electric Motor	<b>Rate of Withdrawal (m<sup>3</sup>/hr.)</b>	51.00
<b>Date of Energization (In Case of Electric Pump)</b>	31/12/1994		
<b>Maximum Allowable Rate of Withdrawal (m<sup>3</sup>/hr.):</b>	51.00	<b>Maximum Allowable Running Hours Per Day:</b>	6.00
<b>Maximum Allowable Annual Extraction of Ground Water:</b>	110160.00	<b>Recharge Required</b>	0.00
<b>Reason for renewal of N.O.C.</b> एन.ओ.सी. के नवीनीकरण का कारण	Non Availability of alternate source of water		



Against Case	
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- This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified for extraction of ground water at a rate not exceeding that as shown at Sl. (3j), for Running Hours per day , and for maximum allowable annual extraction of ground water and is valid subject to the observance of the conditions stated overleaf.
- Holder of this NOC is hereby directed to assure annual recharge of 0.00 cubic meter, as specified under the application form.

### Conditions

- (1) In case of any change of ownership of the proposed well, fresh authorization has to be obtained.
- (2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at SL (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this authorization.
- (3) For the purpose of measuring and recording the quantity of ground water extracted, every said user shall affix digital water flow meters(conforming to BIS/ IS standards) having telemetry system in the abstraction structure, which record rate and quantum of extraction, at outlet of pumping devices and it shall be presumed that the quantity recorded by the meter has been extracted by the said user, until the contrary is proved. The rate of extraction of ground water from the well as shown in item 3(k) shall not exceed to the recorded rate from water meters
- (4) The concerned Authority reserves the right to stop extraction of ground water from the well due to quality hazards or any other reasons, if the situation so demands.
- (5) In case of any change of ownership of the existing well, fresh registration has to be obtained.
- (6) No change of location, design, rate of withdrawal and pumping device in respect of the existing well as indicated at Sl. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this registration.
- (7) n case, any of the particulars l information furnished by the applicant in his application for issuance of this registration is found to be incorrect during verification at any subsequent stage, this registration is liable for cancellation.
- (8) The Certificate of Authorization/ NOC shall be valid for a period of five years from the date of issue. The applicant shall have to apply for renewal through a fresh application, at least ninety days prior to expiry of its validity.
- (9) Construction of piezometers and installation of digital water level recorders with telemetry shall be mandatory for user. Depth and zone tapped of piezometer should be commensurate with that of the pumping well. The data, obtained from digital water level recorders shall be made available to this office on monthly basis.
- (10) Guidelines for Installation of Piezometers and their Monitoring
- Piezometer is a borewell /tube well used only for measuring the water level by lowering the tape/ sounder or automatic water level measuring equipment. It is also used to take water sample for water quality testing whenever needed. General guidelines for installation of piezometers are as follows for compliance of NOC:
  - The piezometer is to be installed/constructed at the minimum of 50 m distance from the pumping well through which ground water is being withdrawn. The diameter of the piezometer should be about 4" to 6".
  - The depth of the piezometer should be same as is case of the pumping well from which ground water is being abstracted. If, more than one piezometer are installed the second piezometer should monitor the shallow ground water regime. It will facilitate shallow as well as deeper ground water aquifer monitoring.
  - No. of piezometers to be constructed & Type of water level monitoring mechanism shall be as per below table:

S.No	Quantum of Ground water withdrawal (cum/day)	No.of piezometers required	Monitring Mechanism	
			Manual	DWLR with Telemetry
1	< 10	0	0	0
2	11 - 50	1	1	0
3	50- 500	1	0	1
4	> 500	2	0	2

- The measuring frequency should be monthly and accuracy of measurement should be up to cm. the reported measurement should be given in meter up to two decimals.
- For measurement of water level sounder or automatic water level recorder (AWLR)/ Digital Automatic water level recorder (DWLR) with telemetry system should be used for accuracy.
- The measurement of water level in piezometer should be taken, only after the pumping from the surrounding tube wells has been stopped for about four to six hours.
- All the details regarding coordinates, reduced level (with respect to mean level), depth, zone taped and assembly lowered should be provided for bringing the piezometer into the Hydrograph Monitoring System for Ground Water Department, Uttar Pradesh, and for its validation.
- The ground water quality has to be monitored twice in a year during pre-monsoon (May/June) and post-monsoon (October/November) periods. Quality may be got analyzed from NABL approved lab. Besides, one sample (1 lt. capacity bottle) to the concerned Director, Ground Water Department, Uttar Pradesh, for chemical analysis.
- A Permanent display board should be installed at piezometer/Tube wells site for providing the location, piezometer/ tube well number, depth and zone tapped of piezometer/tube well for standard referencing and identification.

- Any other site-specific requirement regarding safety and access for measurement may be taken care of.
- (11) Any other condition(s) that may be imposed by the concerned Authority.
- (12) In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- **SPECIFIC CONDITIONS:**
- (A) **For Industrial User:** No Objection Certificate for ground water extraction by industries shall be granted subject to the following specific conditions:
  - i) No Objection Certificate shall be granted only in such cases where local government water supply agencies are not able to supply the desired quantity of water.
  - ii) All industries shall be required to adopt latest water efficient technologies so as to reduce dependence on ground water resources.
  - iii) All industries abstracting ground water in excess of 100 m<sup>3</sup>/d shall be required to undertake annual water audit through Confederation of Indian Industries (CII)/ Federation Indian Chamber of Commerce and Industry (FICCI)/ National Productivity Council (NPC)/ PHD Chamber of Commerce & Industries/ Laghu Udyog Bharati certified auditors and submit audit reports within three months of completion of the same to Ground Water Department, Uttar Pradesh. All such industries shall be required to reduce their ground water use by at least 20% over the next five years through appropriate means.
  - iv) Construction of observation well(s) (piezometer)(s) within the premises and installation of appropriate water level monitoring mechanism as mentioned in General Condition no.10 shall be mandatory for industries drawing/ proposing to draw more than 10 m<sup>3</sup>/day of ground water and. Monitoring of water level shall be done by the project proponent. The piezometer (observation well) shall be constructed at a minimum distance of 50 m from the bore well/production well. Depth and aquifer zone tapped in the piezometer shall be the same as that of the pumping well/ wells. Monthly water level data shall be submitted online to the Ground Water Department, UP.
  - v) The proponent shall be required to adopt roof top rain water harvesting/ recharge in the project premises. Industries which are likely to pollute ground water (chemical, pharmaceutical, dyes, pigments, paints, textiles, tannery, pesticides/ insecticides, fertilizers, slaughter house, explosives etc.) shall store the harvested rain water in surface storage tanks for use in the industry.
  - vi) Injection of treated/ untreated waste water into aquifer system is strictly prohibited.
  - vii) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
- (B) **Infrastructural User:** The No Objection Certificate for ground water abstraction will be granted subject to the following specific conditions:
  - i) In case of infrastructure projects that require dewatering, proponent shall be required to carry out regular monitoring of dewatering discharge rate (using a digital water flow meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
  - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m<sup>3</sup>/day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc.

Date :04/11/2024

Place:Ghaziabad

**This certificate is electronically generated and does not require digital signature**





# GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)

Ministry of Jal Shakti

Government of Uttar Pradesh

## Form 8 (E)

[See rules 15(2)]

**(RENEWAL OF AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER)**

**AUTHORIZATION/ NO-OBJECTION CERTIFICATE NO: REG030186**

**VALID FROM 08/06/2023 TO 07/06/2028**

<b>Serial No.: 202406000821</b>			
<b>Name of the Owner</b>	THACHAT VISWANATH NARENDRAN		
<b>Address of the Applicant</b>	Plot No-23, Sahibabad Industrial Area Site-4, Ghaziabad.	<b>Application No.</b>	GZBD0624RIN0903
<b>Date of Submission</b>	14/06/2024	<b>Specimen Signature</b>	
<b>Company Name</b>	TATA STEEL LIMITED	<b>Company Address</b>	Plot No-23, Sahibabad Industrial Area Site-4, Ghazi
<b>Location Particulars</b>			
<b>District</b>	Ghaziabad	<b>Block</b>	Municipal Corporation/Nagar Nigam, Ghaziabad
<b>Plot No./Khasra No.</b>	23, M-1, M-1 addi, M-14, M-24, & Other	<b>Municipality/Corporation</b>	N/A
<b>Ward No./Holding No.</b>	N/A		
<b>Particular of the Existing Well and Pumping Device</b>			
<b>Date of Construction/Sinking of the Well</b>	31/12/1992		
<b>Type of Well</b>	Tube Well/Boring	<b>Depth of the Well (In meter)</b>	75.00
<b>Purpose of well</b>	Industrial	<b>Assembly Size (For Tube Well)</b>	
<b>Strainer Position (For Tube Well)</b>			
<b>Type of Pump Used</b>	Submersible	<b>H.P. of the Pump</b>	17.50
<b>Operational Device</b>	Electric Motor	<b>Rate of Withdrawal (m<sup>3</sup>/hr.)</b>	51.00
<b>Date of Energization (In Case of Electric Pump)</b>	31/12/1992		
<b>Maximum Allowable Rate of Withdrawal (m<sup>3</sup>/hr.):</b>	51.00	<b>Maximum Allowable Running Hours Per Day:</b>	6.00
<b>Maximum Allowable Annual Extraction of Ground Water:</b>	110160.00	<b>Recharge Required</b>	0.00
<b>Reason for renewal of N.O.C.</b> एन.ओ.सी. के नवीनीकरण का कारण	Non Availability of alternate source of water		

Against Case	
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- This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified for extraction of ground water at a rate not exceeding that as shown at Sl. (3j), for Running Hours per day , and for maximum allowable annual extraction of ground water and is valid subject to the observance of the conditions stated overleaf.
- Holder of this NOC is hereby directed to assure annual recharge of 0.00 cubic meter, as specified under the application form.

### Conditions

- (1) In case of any change of ownership of the proposed well, fresh authorization has to be obtained.
- (2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at SL (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this authorization.
- (3) For the purpose of measuring and recording the quantity of ground water extracted, every said user shall affix digital water flow meters(conforming to BIS/ IS standards) having telemetry system in the abstraction structure, which record rate and quantum of extraction, at outlet of pumping devices and it shall be presumed that the quantity recorded by the meter has been extracted by the said user, until the contrary is proved. The rate of extraction of ground water from the well as shown in item 3(k) shall not exceed to the recorded rate from water meters
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S.No	Quantum of Ground water withdrawal (cum/day)	No.of piezometers required	Monitring Mechanism	
			Manual	DWLR with Telemetry
1	< 10	0	0	0
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4	> 500	2	0	2

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- For measurement of water level sounder or automatic water level recorder (AWLR)/ Digital Automatic water level recorder (DWLR) with telemetry system should be used for accuracy.
- The measurement of water level in piezometer should be taken, only after the pumping from the surrounding tube wells has been stopped for about four to six hours.
- All the details regarding coordinates, reduced level (with respect to mean level), depth, zone taped and assembly lowered should be provided for bringing the piezometer into the Hydrograph Monitoring System for Ground Water Department, Uttar Pradesh, and for its validation.
- The ground water quality has to be monitored twice in a year during pre-monsoon (May/June) and post-monsoon (October/November) periods. Quality may be got analyzed from NABL approved lab. Besides, one sample (1 lt. capacity bottle) to the concerned Director, Ground Water Department, Uttar Pradesh, for chemical analysis.
- A Permanent display board should be installed at piezometer/Tube wells site for providing the location, piezometer/ tube well number, depth and zone tapped of piezometer/tube well for standard referencing and identification.



- Any other site-specific requirement regarding safety and access for measurement may be taken care of.
- (11) Any other condition(s) that may be imposed by the concerned Authority.
- (12) In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- **SPECIFIC CONDITIONS:**
- (A) **For Industrial User:** No Objection Certificate for ground water extraction by industries shall be granted subject to the following specific conditions:
  - i) No Objection Certificate shall be granted only in such cases where local government water supply agencies are not able to supply the desired quantity of water.
  - ii) All industries shall be required to adopt latest water efficient technologies so as to reduce dependence on ground water resources.
  - iii) All industries abstracting ground water in excess of 100 m<sup>3</sup>/d shall be required to undertake annual water audit through Confederation of Indian Industries (CII)/ Federation Indian Chamber of Commerce and Industry (FICCI)/ National Productivity Council (NPC)/ PHD Chamber of Commerce & Industries/ Laghu Udyog Bharati certified auditors and submit audit reports within three months of completion of the same to Ground Water Department, Uttar Pradesh. All such industries shall be required to reduce their ground water use by at least 20% over the next five years through appropriate means.
  - iv) Construction of observation well(s) (piezometer)(s) within the premises and installation of appropriate water level monitoring mechanism as mentioned in General Condition no.10 shall be mandatory for industries drawing/ proposing to draw more than 10 m<sup>3</sup>/day of ground water and. Monitoring of water level shall be done by the project proponent. The piezometer (observation well) shall be constructed at a minimum distance of 50 m from the bore well/production well. Depth and aquifer zone tapped in the piezometer shall be the same as that of the pumping well/ wells. Monthly water level data shall be submitted online to the Ground Water Department, UP.
  - v) The proponent shall be required to adopt roof top rain water harvesting/ recharge in the project premises. Industries which are likely to pollute ground water (chemical, pharmaceutical, dyes, pigments, paints, textiles, tannery, pesticides/ insecticides, fertilizers, slaughter house, explosives etc.) shall store the harvested rain water in surface storage tanks for use in the industry.
  - vi) Injection of treated/ untreated waste water into aquifer system is strictly prohibited.
  - vii) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
- (B) **Infrastructural User:** The No Objection Certificate for ground water abstraction will be granted subject to the following specific conditions:
  - i) In case of infrastructure projects that require dewatering, proponent shall be required to carry out regular monitoring of dewatering discharge rate (using a digital water flow meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
  - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m<sup>3</sup>/day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc.

Date :05/11/2024

Place:Ghaziabad

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# GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)

Ministry of Jal Shakti

Government of Uttar Pradesh

## Form 8 (E)

[See rules 15(2)]

**(RENEWAL OF AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER)**

**AUTHORIZATION/ NO-OBJECTION CERTIFICATE NO: REG013938**

**VALID FROM 08/06/2023 TO 07/06/2028**

<b>Serial No.: 202406000824</b>			
<b>Name of the Owner</b>	THACHAT VISWANATH NARENDRAN		
<b>Address of the Applicant</b>	Plot No-23, Sahibabad Industrial Area Site-4, Ghaziabad.	<b>Application No.</b>	GZBD0624RIN0904
<b>Date of Submission</b>	14/06/2024	<b>Specimen Signature</b>	
<b>Company Name</b>	TATA STEEL LIMITED	<b>Company Address</b>	Plot No-23, Sahibabad Industrial Area Site-4, Ghazi
<b>Location Particulars</b>			
<b>District</b>	Ghaziabad	<b>Block</b>	Municipal Corporation/Nagar Nigam, Ghaziabad
<b>Plot No./Khasra No.</b>	23, M-1, M-1 addi, M-14, M-24, & Other	<b>Municipality/Corporation</b>	N/A
<b>Ward No./Holding No.</b>			N/A
<b>Particular of the Existing Well and Pumping Device</b>			
<b>Date of Construction/Sinking of the Well</b>	31/12/1997		
<b>Type of Well</b>	Tube Well/Boring	<b>Depth of the Well (In meter)</b>	75.00
<b>Purpose of well</b>	Industrial	<b>Assembly Size (For Tube Well)</b>	
<b>Strainer Position (For Tube Well)</b>			
<b>Type of Pump Used</b>	Submersible	<b>H.P. of the Pump</b>	17.50
<b>Operational Device</b>	Electric Motor	<b>Rate of Withdrawal (m<sup>3</sup>/hr.)</b>	51.00
<b>Date of Energization (In Case of Electric Pump)</b>	31/12/1997		
<b>Maximum Allowable Rate of Withdrawal (m<sup>3</sup>/hr.):</b>	51.00	<b>Maximum Allowable Running Hours Per Day:</b>	6.00
<b>Maximum Allowable Annual Extraction of Ground Water:</b>	110160.00	<b>Recharge Required</b>	0.00
<b>Reason for renewal of N.O.C.</b> एन.ओ.सी. के नवीनीकरण का कारण	Non Availability of alternate source of water		

Against Case	
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- This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified for extraction of ground water at a rate not exceeding that as shown at Sl. (3j), for Running Hours per day , and for maximum allowable annual extraction of ground water and is valid subject to the observance of the conditions stated overleaf.
- Holder of this NOC is hereby directed to assure annual recharge of 0.00 cubic meter, as specified under the application form.

### Conditions

- (1) In case of any change of ownership of the proposed well, fresh authorization has to be obtained.
- (2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at SL (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this authorization.
- (3) For the purpose of measuring and recording the quantity of ground water extracted, every said user shall affix digital water flow meters(conforming to BIS/ IS standards) having telemetry system in the abstraction structure, which record rate and quantum of extraction, at outlet of pumping devices and it shall be presumed that the quantity recorded by the meter has been extracted by the said user, until the contrary is proved. The rate of extraction of ground water from the well as shown in item 3(k) shall not exceed to the recorded rate from water meters
- (4) The concerned Authority reserves the right to stop extraction of ground water from the well due to quality hazards or any other reasons, if the situation so demands.
- (5) In case of any change of ownership of the existing well, fresh registration has to be obtained.
- (6) No change of location, design, rate of withdrawal and pumping device in respect of the existing well as indicated at Sl. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this registration.
- (7) n case, any of the particulars l information furnished by the applicant in his application for issuance of this registration is found to be incorrect during verification at any subsequent stage, this registration is liable for cancellation.
- (8) The Certificate of Authorization/ NOC shall be valid for a period of five years from the date of issue. The applicant shall have to apply for renewal through a fresh application, at least ninety days prior to expiry of its validity.
- (9) Construction of piezometers and installation of digital water level recorders with telemetry shall be mandatory for user. Depth and zone tapped of piezometer should be commensurate with that of the pumping well. The data, obtained from digital water level recorders shall be made available to this office on monthly basis.
- (10) Guidelines for Installation of Piezometers and their Monitoring
- Piezometer is a borewell /tube well used only for measuring the water level by lowering the tape/ sounder or automatic water level measuring equipment. It is also used to take water sample for water quality testing whenever needed. General guidelines for installation of piezometers are as follows for compliance of NOC:
  - The piezometer is to be installed/constructed at the minimum of 50 m distance from the pumping well through which ground water is being withdrawn. The diameter of the piezometer should be about 4" to 6".
  - The depth of the piezometer should be same as is case of the pumping well from which ground water is being abstracted. If, more than one piezometer are installed the second piezometer should monitor the shallow ground water regime. It will facilitate shallow as well as deeper ground water aquifer monitoring.
  - No. of piezometers to be constructed & Type of water level monitoring mechanism shall be as per below table:

S.No	Quantum of Ground water withdrawal (cum/day)	No.of piezometers required	Monitring Mechanism	
			Manual	DWLR with Telemetry
1	< 10	0	0	0
2	11 - 50	1	1	0
3	50- 500	1	0	1
4	> 500	2	0	2

- The measuring frequency should be monthly and accuracy of measurement should be up to cm. the reported measurement should be given in meter up to two decimals.
- For measurement of water level sounder or automatic water level recorder (AWLR)/ Digital Automatic water level recorder (DWLR) with telemetry system should be used for accuracy.
- The measurement of water level in piezometer should be taken, only after the pumping from the surrounding tube wells has been stopped for about four to six hours.
- All the details regarding coordinates, reduced level (with respect to mean level), depth, zone taped and assembly lowered should be provided for bringing the piezometer into the Hydrograph Monitoring System for Ground Water Department, Uttar Pradesh, and for its validation.
- The ground water quality has to be monitored twice in a year during pre-monsoon (May/June) and post-monsoon (October/November) periods. Quality may be got analyzed from NABL approved lab. Besides, one sample (1 lt. capacity bottle) to the concerned Director, Ground Water Department, Uttar Pradesh, for chemical analysis.
- A Permanent display board should be installed at piezometer/Tube wells site for providing the location, piezometer/ tube well number, depth and zone tapped of piezometer/tube well for standard referencing and identification.

- Any other site-specific requirement regarding safety and access for measurement may be taken care of.
- (11) Any other condition(s) that may be imposed by the concerned Authority.
- (12) In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- **SPECIFIC CONDITIONS:**
- (A) **For Industrial User:** No Objection Certificate for ground water extraction by industries shall be granted subject to the following specific conditions:
  - i) No Objection Certificate shall be granted only in such cases where local government water supply agencies are not able to supply the desired quantity of water.
  - ii) All industries shall be required to adopt latest water efficient technologies so as to reduce dependence on ground water resources.
  - iii) All industries abstracting ground water in excess of 100 m<sup>3</sup>/d shall be required to undertake annual water audit through Confederation of Indian Industries (CII)/ Federation Indian Chamber of Commerce and Industry (FICCI)/ National Productivity Council (NPC)/ PHD Chamber of Commerce & Industries/ Laghu Udyog Bharati certified auditors and submit audit reports within three months of completion of the same to Ground Water Department, Uttar Pradesh. All such industries shall be required to reduce their ground water use by at least 20% over the next five years through appropriate means.
  - iv) Construction of observation well(s) (piezometer)(s) within the premises and installation of appropriate water level monitoring mechanism as mentioned in General Condition no.10 shall be mandatory for industries drawing/ proposing to draw more than 10 m<sup>3</sup>/day of ground water and. Monitoring of water level shall be done by the project proponent. The piezometer (observation well) shall be constructed at a minimum distance of 50 m from the bore well/production well. Depth and aquifer zone tapped in the piezometer shall be the same as that of the pumping well/ wells. Monthly water level data shall be submitted online to the Ground Water Department, UP.
  - v) The proponent shall be required to adopt roof top rain water harvesting/ recharge in the project premises. Industries which are likely to pollute ground water (chemical, pharmaceutical, dyes, pigments, paints, textiles, tannery, pesticides/ insecticides, fertilizers, slaughter house, explosives etc.) shall store the harvested rain water in surface storage tanks for use in the industry.
  - vi) Injection of treated/ untreated waste water into aquifer system is strictly prohibited.
  - vii) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
- (B) **Infrastructural User:** The No Objection Certificate for ground water abstraction will be granted subject to the following specific conditions:
  - i) In case of infrastructure projects that require dewatering, proponent shall be required to carry out regular monitoring of dewatering discharge rate (using a digital water flow meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
  - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m<sup>3</sup>/day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc.

Date :05/11/2024

Place:Ghaziabad

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INDIA NON JUDICIAL

Government of Uttar Pradesh



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08/10/24

e-Stamp

Acc Name-Mohit Aggarwal, Licence No.-408  
Acc Code - UP14076104, Ghaziabad, (U.P.)  
Mobile No-9811779165, Sign.....

Certificate No. : IN-UP82571413438747W  
Certificate Issued Date : 12-Sep-2024 03:02 PM  
Account Reference : NEWIMPACC (SV)/ up14076104/ GHAZIABAD SADAR/ UP-GZB  
Unique Doc. Reference : SUBIN-UPUP1407610461950690991740W  
Purchased by : TATA STEEL LTD  
Description of Document : Article 4 Affidavit  
Property Description : Not Applicable  
Consideration Price (Rs.) :  
First Party : TATA STEEL LTD  
Second Party : Not Applicable  
Stamp Duty Paid By : TATA STEEL LTD  
Stamp Duty Amount(Rs.) : 100  
(One Hundred only)



Please write or type below this line

AGREEMENT FOR THE SUPPLY OF RECYCLED SEWAGE WATER  
FOR INDUSTRIAL USE BY THE UNITS / INDUSTRIES IN THE AREA  
UNDER SAHIBABAD INDUSTRIAL AREA, GHAZIABAD

This Agreement is drawn on the 08<sup>th</sup> day of Oct., 2024 between:

- (i) GHAZIABAD NAGAR NIGAM, established under the Uttar Pradesh Municipal Corporation Act, 1959, having its office at Ghaziabad Nagar Nigam, Navyug Market, Opp. Old Bus Stand, Ghaziabad - 201001 (U.P.) (hereinafter referred to as "GNN/Seller", which expression shall, unless it be repugnant to the context or meaning thereof, be deemed to mean and include its successors-in-office and permitted assigns) of the FIRST PART;

For Tata Steel Ltd.

Mohit Das

Asst. Corporate Services, TSM

HAZIABAD WATER SOLUTIONS PRIVATE LIMITED (hereinafter referred to as "GWSPL"), a Special Purpose Vehicle (SPV) incorporated, registered and existing under the Companies Act, 2013 having CIN U41000TN2020PTC135253, and

for  
G

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Statutory Agent

1. The authenticity of the Stamp certificate should be verified at [www.upstampcert.com](https://www.upstampcert.com) or using the QR code available on the Certificate and as available on the website / Mobile App.  
2. The State of drinking the wastewater is the duty of the user of the certificate.  
3. The State of drinking the wastewater is the duty of the user of the certificate.

महामन्त्र (जल)  
नगर निगम गाजियाबाद



having its registered office at "WABAG House" No. 17, 200 Feet Thoraipakkam - Pallavaram Main Road, Sunnambu Kolathur, Chennai 600117 (hereinafter referred to as the Concessionaire, which expression shall, unless it be repugnant to the context or meaning thereof, include its successors and permitted assigns) of the **SECOND PART**:

GNN and GWSPL (100% subsidiary of M/s VA Tech Wabag Ltd., the concessionaire) are hereinafter collectively referred to as First Parties.

AND

- (iii) M/s TATA STEEL LIMITED, having its registered office at **Bombay House, 24, Homi Mody Street, Mumbai 400 001** and one of its plant site at plot no 23, site 4, Sahibabad, Ghaziabad, Uttar Pradesh (hereinafter referred to as "User" which expression shall unless repugnant to the context, mean and include its permitted assignees) of the **THIRD PART**;

Each of GNN, GWSPL and User hereinafter to be referred individually as the "Party" and collectively as the "Parties".

WHERE AS

- A. GNN intends to develop a "Public Private Partnership (PPP)-Hybrid Annuity Model (HAM) to set up a Tertiary Treatment plant to treat secondary treated water from Indirapuram Sewage treatment plant (hereinafter referred to as "TSTP") to supply Industrial Grade Water to industrial units situated under the jurisdiction area of Sahibabad Industrial Area, Ghaziabad from Ghaziabad Nagar Nigam (the "Project").
- B. GWSPL will implement, operate and maintain the Project Facility and supply the Recycled Water to the User on behalf of GNN.
- C. The Parties now agree to the following understanding in relation to the supply of Recycled Water ("Product") by the First Parties to the User as per this Agreement.

Now, THEREFORE, the Parties hereto agree as follows:

1. **Project Facility**

Project Facility means collectively the following:

- (a) Waste Water Treatment Plant including ultra-filtration and reverse osmosis (UF&RO) plant being constructed in STP premises at Indirapuram [collectively referred to as "Tertiary Treatment and Reverse Osmosis plant (TTRO)"];
- (b) Pumping station(s) for product supply;
- (c) Conveyance pipeline from Indirapuram TTRO premises to user's premises on exclusive basis, for supply of the treated water, and
- (d) Includes any other infrastructure that forms or may form part of the Project Facility at a future date.

For Tata Steel Ltd.  
Mohit Das  
Chief, Corporate Services, TSM

महाप्रबन्धक (जल)  
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The Project Facility is being developed by GNN along with the Concessionaire. The commercial operations date (hereinafter referred to as "COD") of 40 million Liters per Day (MLD) supply of the Product by the First Parties to User would be presumably in the Month of September in year 2024.

## 2. Contracted Quantity

- (a) The contracted quantity (hereinafter referred to as "Contracted Quantity") is 1250 kilo liter Per Day (KLD) for the CRM Plant situated at plot no. 23, Site-IV, Sahibabad Industrial Area, Ghaziabad. The Date of Commencement will be presumably September, 2024. In case of delay the First Parties shall inform the User in writing.
- (b) The First Parties assures the User that supply of Contracted Quantity of the Product shall be undertaken as per the terms and conditions provided in this Agreement.
- (c) The supply obligations on the part of the GNN and payment obligations on the part of the User shall commence from the actual Date of Commencement. The User shall off take the Contracted Quantity of the Product for the Supply Period from the GNN, from the Date of Commencement onwards. The Date of Commencement shall be the date on which Product are supplied to the User.
- (d) "Supply Period" would mean the period on daily basis i.e., calendar day.
- (e) The actual supply may vary for about +/- 5% of the Contracted Quantity. The User will be billed and shall pay for the actual quantity delivered to the User from the Date of Commencement.
- (f) The Contracted Quantity of the Product shall be supplied equally in a period spread of 24 hours.

## 3. Delivery of Water

- (a) Water shall be delivered from Indirapuram TTRO to User at the junction of approach road for the unit/works and public road. First Parties shall have to make all arrangements to deliver the water from source and other allied infrastructure and comprehensive networks, and the same shall be maintained by the First Parties. All capital and maintenance costs shall be borne by the First Party, and the User is therefore obligated to draw water for a minimum period of three (03) years, which may be renewed for a subsequent period of three (03) years upon the expiry of the Agreement, with consensual approach of the Parties. (i.e. Contract Period).

User shall make all proper and adequate arrangement as per rules & regulations of Ghaziabad Nagar Nigam and Applicable Laws for drawing water from the junction point of unit/factory/works approach road and public road at its own risk and cost. If any defect in inlet/connection arrangements or water using equipment's arise the same shall be rectified by the First Parties. First Parties shall have an option to stop supply of water without any notice as soon as any defect or unsafe operation is notified in the User inlet/connection arrangement or metering equipment, the decision with respect to which shall be of the First Parties and the same shall be absolute and binding upon the User. Inlet/connection arrangement means the installation of pipeline from the junction point of factory/ unit / works-approach road and public road to its unit, water meter, sluice valve, non-return valve etc. The said arrangement shall be

For Tata Steel Ltd.  
Mohit Das  
Chief, Corporate Services, TSM

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made available by First Parties. User shall not have the right to adjust, clean, handle, replace, maintain, tinker, remove or modify in any manner all such above state inlet/connection arrangement at any time during the tenure of the Agreement.

- (b) User under no circumstances shall sublet/ lease/ sell/ create a change over on part or whole with the water related property at any given time, without the written consent of the First Parties.
- (c) Any production losses or any kind of losses whatsoever attributable to the functioning of the aforesaid equipment/ installations for any reason whatsoever shall, in no way be the First Parties' responsibility and accordingly the First Parties shall not be held responsible for any such losses or damages in any circumstances.
- (d) Notwithstanding anything contained in any of the clauses of this Agreement, in case it is found that the User have tampered with the water metering equipment, the water supply to the User will be discontinued after giving prior notice to the User by the First Parties. The decision of the First Parties in this connection shall be final and binding upon Second Party. In such a case User shall pay the penalty and losses occurring to First Parties before resumption of the supply. If the amount is not paid by the User within 7 (seven) days from the receipt of Debit Note from GNN, this Agreement shall be liable to be terminated by the First Parties and the equivalent amount as per the Contract Demand at least for three years shall be recovered and the deposit paid by User shall be forfeited.
- (e) Water distribution equipment installed for supply of water like internal pipeline water meter, sluice valve, non-return valve from the junction point of approach road of factory/unit/works and public road to the factory/unit/works of the User is supposed to be property of GNN. First Parties or its authorised representative, at the risk and cost of User shall have rights of entry at all hours to the water metering station, route of pipeline up to all consumption points and water consuming facilities situated inside or outside the premises to the User. It shall be the sole responsibility of User to safeguard the assets, such as pipeline, water meter, sluice valve, non-return valve etc. created under water distribution system inside or outside the premises up to the terminal point junction chamber which are within the User premises and are in possession of the User against theft or pilferage etc. First Parties will restore and rehabilitate the damaged distribution system at the risk and cost of the User in the event where theft or pilferage etc. happens to the assets.

#### 4. Supply Price for the Product

- (a) Initial Supply price of Rs. 45.90 per kilo liter (KL) shall be payable by the User to the GNN, for the supply of the Product, for the 1<sup>st</sup> year.
- (b) An escalation of 5% shall be applicable every year, on the previous year's applicable price.

#### 5. Quantity of Water

- (a) The User shall declare to the First Parties about the current requirements on daily basis with future requirement (if any).
- (b) The First Parties shall install water meter at the premises of the User, the installed water meter shall be used for the assessment of the quantity of water consumption by the User.

**For Tata Steel Ltd.**  
**Mohit Das**  
Chief, Corporate Services, TSM

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- (c) User can consume more water than the Contracted Quantity as per Agreement. First Parties shall charge Rs. 45.90/- per KL, or otherwise as per the revised rate as applicable at the time of the excess supply. Further it is agreed by both the Parties, that during the billing cycle, if User has consumed less than 80% of the Contracted Quantity, then First Parties will raise the bill for 80% of the Contracted Quantity.
- (d) The First Parties shall treat the connection illegal on the following conditions:
- If the water connection is taken without the prior permission of the First Parties;
  - If the water meter installed in the premises of User is "by-passed";
  - If at any time First Parties comes to the knowledge that any mischief/adjustment to the meter is carried out or found out or traces of tempering the meter is spotted;
  - If at any time First Parties comes to the knowledge that the motor/pump or any other pumping device is attached or found for direct pumping from the water connection of the First Parties;
- (e) First Parties shall impose the penalty for the illegal connection as stated above.
- (f) User shall provide an underground storage tank(s) at their own at their working place.
- (g) First Parties shall not allow any motoring/pumping directly from the connection of First Parties.

#### 6. Measurement and Calibration

- a. The volume of water supplied under the Agreement shall be measured in standard cubic meter/kilolitre as per the reading of the water meter. The water meter shall be supplied, installed and maintained by First Parties.
- b. If User has any doubt on the proper working of the meter, it can request First Parties for the calibration of metering system along with an advance payment of Rs. 5,000/- (Rupees five thousand only) towards the calibration charges. First Parties shall undertake such checks / calibration of water meter system after the receipt of intimation from the User in writing. Over and above calibration charges, the repairing / replacement of any part of the metering system after the warranty has expired will be charged on actual to the User, pending the final result of such calibration / recalibration. User shall not withhold the payment to the First Parties under the Agreement on this account. However, User may lodge its calibration / recalibration within a period of fourteen (14) days of such calibration / recalibration. Any such claim, if found correct by the First Parties shall be adjusted against subsequent invoice(s) of supply water. No interest shall accrue to such refunds by the First Parties to the User.

#### 7. Shutdown and Stoppage of Supply

- (a) The scheduled shut down of water supply on the one side from First Parties' end and on the other side of the User's end shall be limited in each case to fifteen (15) days in two periods of time in a year with each period being not shorter than five (5)

For Tata Steel Ltd.  
  
**Mohit Das**  
 Chief, Corporate Services, TSM

  
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days. The Party shall have to intimate the other Party at least fifteen (15) days prior to the proposed date of shut down.

- (b) The First Parties shall in case of a scheduled shutdown make alternative arrangement for piped supply of Contracted Quantity from other plants. If the piped supply is stopped by the First Parties, the First Parties shall supply the Contracted Quantity through tankers. In such an event, the User shall also be entitled to make alternative arrangement for supply of water to continue its plant operations and this shall not be considered in any manner a violation of this Agreement. However, any alternative arrangements made by the user must not involve groundwater extraction through illegal borewells or any other methods deemed illegal by the First Parties
- (c) The User shall inform First Parties immediately about any defects in the water inlet/connection arrangement of the User calling for the complete or partial stoppage of the supply of water. Provided that in all such cases, the provisions relating to the payment of minimum guaranteed consumption (i.e., 80% of the agreed demand) shall be applicable.
- (d) First Parties shall, likewise inform the User immediately about any defects in water installations and/or water pipeline of the First Parties calling for discontinuation or complete or partial stoppage of supply of water. First Parties shall not be liable for failure to perform or for delay in performing any provision(s) of the Agreement by User in such conditions and shall be held responsible for any losses or damages to User due to partial or complete stoppage of water supply. The provisions related to the payment of minimum guaranteed consumption (i.e., 80% of the agreed demand) shall not be applicable.
- (e) Subject to clause 7 (a), if the User requires additional shut down, it shall have to give prior notice of 7 days to the First Parties for shutting down for a period of a week (or less than that) and for shutting down the system the User shall have to pay Rs. 5,000/- (Rupees five thousand only) for more than 25mm connection in case of industry, along with outstanding and due water charges and Rs. 1,000/- (Rupees one thousand only) for 25mm and less than 25mm connection in case of industry along with outstanding and due water charges. In case of shutdown the connection for more than a week, User shall have to produce appropriate documentary evidence for the shutdown / non-production of the factory for the period.
- (f) Subject to clause (i), in case of shutting down the connection without any sufficient cause by the First Parties, First Parties will charge as per the consumption by the User.
- (g) In case the First Parties fails to supply the water due to force majeure condition or other situation like repairs / maintenance / electricity failure, outage etc. it shall be treated as unavoidable circumstances due to proactive actions/ preventive measures being taken to pre-empt such unwanted incident but in vain and therefore, User shall not be liable for any compensation / claim. the First Parties shall provide the Contracted Quantity via tankers. The User may also make alternative arrangements to ensure the continued operation of its plant, and this will not be considered a breach of this Agreement. However, any alternative arrangements made by the user must not involve groundwater extraction through illegal borewells or any other methods deemed illegal by the First Parties
- (h) In accordance with sub clause (e) above the User shall have to pay Rs. 10,000/- (Rupees ten thousand only) per connection for restarting the system to the First Parties.
- (i) Notwithstanding anything contained herein, in case of shutdown or stoppage of supply of water for any reason whatsoever by the First Parties, the First Parties shall provide the Contracted Quantity via tankers. The User may also make alternative arrangements to ensure the continued operation of its plant, and this will not be considered a breach of this Agreement. However, any alternative arrangements

For Tata Steel Ltd.  
Mohit Das  
Chief, Corporate Services, TSM

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made by the user must not involve groundwater extraction through illegal borewells or any other methods deemed illegal by the First Parties.

#### 8. Failure of Supply

- (a) If First Parties are not able to supply the Contracted Quantity of the Product during the Supply Period, either due to water quality not meeting the specified standard or for any reason, then the User the Supply Price shall be payable for the actual off-take quantity.
- (b) However, considering unexpected contingencies, the User is required to make alternate arrangements in case of failure to supply the Product by the First Parties to the User. The First Parties are to put all efforts to resume the supply of the Product to the User in the shortest possible time after the unexpected contingencies.

#### 9. Conveyance Pipeline

- (a) The right of way for laying of the Conveyance Pipeline in the User premises up to the point where First Supplies network ends and the User' off-take network starts (hereinafter referred to as "Delivery Point"), would be provided free of cost by the User to the First Parties.
- (b) The User, at its premises, shall always facilitate the First Parties during the construction and operation & maintenance period by providing requisite permission etc. for carrying out the various works.
- (c) The First Parties shall be responsible for the safety and O&M of the Conveyance Pipeline up to Delivery Point.

#### 10. Metering

- (a) Continuous Online Metering for determining the exact quantities of the Product supplied shall be done at the Delivery Point in the User premises. First Parties shall install a meter with a standby at the Delivery Point.
- (b) Necessary instrumentation for real time online monitoring of water quality shall be installed & maintained by the First Parties at the Delivery Point.
- (c) Periodical calibration of the water meters and water quality instruments shall be carried out by the First Parties along with the User.
- (d) The User shall provide adequate space or as per requirement for installation of the water meters.
- (e) Power requirement for the metering station shall be provided by the User.

#### 11. Water Quality

- a. The Product to be supplied by the First Parties to the User shall be as per the standards specified in Annexure-I.
- b. In case the water quality is not as per the standards specified, then the User may stop the receipt of Product with immediate intimation to the First Parties. Prior to usage of such Product, the User shall carry out the requisite quality tests of the Product to confirm the quality standards/requirements for its further

For Tata Steel Ltd.  
Mohit Das  
Chief, Corporate Services, TSM



intended use.

- d. The First Parties shall not be responsible for the quality of Product beyond the Delivery Point.

## 12. Security for Payment

- (a) Advance consumption charges (security deposit) shall be submitted by the User to the GNN in the form of Bank Guarantee (BG)/ Fixed Deposit in favour of Municipal Commissioner, Ghaziabad Nagar Nigam for the Contracted Quantity of the Product in the manner as specified therein above in Clause 3 i.e., Contracted Quantity in KL x 30 days x Supply Price. The advance consumption charges (security deposit) of one (1) Month charges in form of Bank Guarantee is fixed considering the current financial position of User. However, GNN reserves the right to increase the advance consumption charges in future in case there is a change in Contracted Quantity.
- (b) The advance consumption charges shall be deposited (fifteen) 15 days prior to the Date of Commencement.
- (c) The User has to submit the Bank Guarantee for (thirty) 30 days advance consumption charges (security deposit) taking into consideration the yearly escalation in Supply Price of the Product. The differential amount shall also be submitted in the form of Bank Guarantee. Bank Guarantee shall be initially valid for one year and the same shall be extended every year before expiry date, with the escalated price.

## 13. Payment Mechanism for Monthly Consumption Charges

- a. The bill for the Product consumed will be served once in a month.
- b. GNN & GWSPL will ensure that the bill reaches to the User by 10<sup>th</sup> day of every month. In any case if the bill is not received by 10<sup>th</sup> day, the User has to inform the same to the GNN on the 11<sup>th</sup> day and obtain the duplicate bill.
- c. The User has to pay the bill within (15) fifteen days from the date of email of the scan copy of the bill by the First Parties to the User, in the Bank Account as specified by the GNN, failing which the release of the Product will be stopped with seven (7) days prior intimation in writing to User.

## 14. Disconnection

- (a) If the monthly consumption charges for the Product are not paid within the due date and subsequent notice for payment of the dues within seven (7) days, the Product supply to the User will be stopped and the connection shall be disconnected after giving a notice of fifteen (15) days and penalty of Rs.10,000/- will be levied on the User for reconnection, after clearing the bill.
- (b) Further, if the connection is disconnected, the User shall be charged an interest @1% per month from the due date to the date of actual payment over the outstanding due amount, in addition to the penalty of Rs.10,000/- for reconnection after clearing the bill.

For Tata Steel Ltd.  
Mohit Das  
Chief, Corporate Services, TSM

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## 15. Dispute Resolution, Governing Law and Jurisdiction

- (a) In case of any dispute pertaining to the bills raised by the First Parties, the User shall bring to the notice of the concerned Parties within 7 (seven) days from the receipt of the bill, otherwise no objections will be admitted after 7 (seven) days.
- (b) Even if any bill raised by the First Parties is disputed, the User should pay the full amount of such disputed bill, pending settlement of the dispute through mutual understanding and excess payment, if any, will be adjusted in subsequent bills. In case of failure to arrive at a settlement through mutual understanding, the Parties are free to resort to civil proceedings.
- (c) Dispute Resolution Mechanism:
  - (i) All disputes and differences, whatsoever, arising between the parties out of or relating to or in connection with the meaning, scope, operation or effect of this Agreement or breach thereof shall be settled between the First Parties and the User amicably. In the event of any dispute, the parties shall endeavour to resolve such dispute by discussion in good faith in the first instance within 30 (thirty) days of notice of such dispute.
  - (ii) If, however, the parties are not able to resolve their disputes and differences amicably as aforesaid, such disputes and differences whatsoever arising between the parties out of or relating to or in connection with the meaning, operation or effect of this Agreement or the breach shall be settled at competent jurisdiction by civil proceedings.
  - (iii) Notwithstanding the existence of any dispute and differences or Court Case in terms hereof or otherwise, work under the contract shall continue and be bound to continue to perform their respective obligations according to be contract, and the parties shall remain liable and bound in all respects under the Contract.
  - (iv) The Civil Courts at Ghaziabad, India with the exclusion of all other courts shall alone have jurisdiction over all matters relating to this contract and the disputes and differences arising from the same. Governing law shall be Laws of India.

## 16. Force Majeure

"Force Majeure" shall mean any event or circumstance or combination thereof which prevents the Party claiming Force Majeure (the "Affected Party") from performing its obligations under this Agreement and which event or circumstance:

- (i) is beyond the reasonable control and not arising out of the default of the affected Party;
- (ii) the Affected Party has been unable to overcome such circumstance or event by the exercise of due diligence and reasonable efforts, skill and care; and
- (iii) has a material adverse effect on the subsistence of this Agreement.

  
For Tata Steel Ltd.  
Mohit Das  
Chief, Corporate Services, TSM

  
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Such events or circumstances shall include, without limitation, the effect of any natural element or other acts of State or God, including but not limited to, fire, flood, earthquake, lightning, cyclone, landslides or other natural disasters, strikes or other industrial disturbances, war, riots, civil commotion, terrorist attacks, embargoes, blockades, governmental restriction, intervention of defense authorities or any change in laws applicable to any Party hereto

- (a) A Party shall not be liable to the other Party for any loss, injury, delay, damages or other casualty suffered or incurred by the latter due to Force Majeure, and any failure or delay by any Party in performance of its obligations under this Agreement due to Force Majeure shall not be considered as a breach of this Agreement.
- (b) The Party suffering Force Majeure shall notify the other Parties in writing promptly after the occurrence of such Force Majeure event. Such Party shall, to the extent reasonable and lawful, use its best efforts to remove or remedy such cause. Upon the occurrence of a Force Majeure event, the Party claiming Force Majeure shall use all reasonable methods to continue to perform its obligations under this Agreement and to minimize the adverse effects of such circumstances. Such a Party shall notify the other Parties of the steps it proposes to take including any reasonable alternative means for performance. In the event any obligation cannot be performed due to continuance of a Force Majeure event for a period of 7 days or more, the Parties agree that the time period for the performance of such obligation shall stand extended for an equivalent period after such time as the Force Majeure event ceases to exist.
- (c) If, as a result of a Force Majeure event, the Agreement has been rendered unviable or un-bankable or the Force Majeure event is not likely to be cured within a reasonable foreseeable period, the Parties may decide to terminate this Agreement in which case the Parties shall be entitled to receive payments accrued and due to them, before the occurrence of the Force Majeure event.

#### 17. Validity, Effectiveness and Operation of this Agreement

This Agreement:

- (a) shall come into effect from the date of the Agreement is signed between the First Parties and the User for utility and supply of the Product. It will be binding upon both the Parties for a period of 03 (Three) years from the Date of Commencement ("Validity Period"). The Agreement may be extended to further period of time with consensual approach of the Parties.
- (b) will remain in place until such time as one or all Parties determine otherwise,
- (c) shall be executed in English in three originals, one for each Party, and
- (d) can be amended at any time by a written agreement between the Parties

For Tata Steel Ltd.  
Mohit Das  
Chief, Corporate Services, TSM

जल  
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or may be mutually extended by the Parties in writing.

- (e) This Agreement may be extendable for a mutually agreeable period as per mutual consent between the Parties on the existing terms and conditions.

Further, the Parties agree that:

- (a) First Parties will take all measures to ensure smooth and regular supply of the Product to the User but First Parties shall not be responsible for loss of property or life or what so ever it may be due to shortage in supply due to accidental or unforeseen circumstances or matters beyond the control of the First Parties.
- (b) The First Parties will inform 48 hours in advance to the User about the stoppage of the Product for maintenance of various water supply installations. The First Parties shall in such case make alternative arrangement for piped supply of Contracted Quantity from other plants. If the piped supply is stopped by the First Parties, the First Parties shall supply the Contracted Quantity through tankers. In such an event, the User shall also be entitled to make alternative arrangement for supply of water for continue its plant operations. Which shall not be considered in any manner a violation of this Agreement. However, any alternative arrangements made by the user must not involve groundwater extraction through illegal borewells or any other methods deemed illegal by the First Parties
- (c) The User should approach the GNN well in advance before the expiry date, for renewal of this Agreement.

#### 18. Termination

- a. Any Party may terminate this Agreement prior to expiry of its Validity Period, by 3 months' written notice to the other Parties.
- b. This Agreement is terminable upon the occurrence of a Material Breach (as defined below) which has a Material Adverse Effect. This Agreement will also terminate automatically upon the bankruptcy of any Party hereto.
- c. For the purpose of this clause:

"Material Breach" means a breach of the obligations, terms and conditions of this Agreement or covenants by a Party, which materially and substantially affects the performance of the transactions contemplated by this Agreement and results in a Material Adverse Effect.

"Material Adverse Effect" means circumstances which may or do (i) render any right vested in a Party by the terms of this Agreement ineffective; or (ii) adversely affect or restrict or frustrate the ability of any Party to observe and perform in a timely manner its obligations under this Agreement; or (iii) adversely affects the legality, validity, binding nature or enforceability of this Agreement.

- d. The termination of this Agreement shall not affect the rights of the Parties accrued

**Hindustan Steel Ltd.**  
**Mohit Das**  
Chief, Corporate Services, TSM

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prior to such termination.

#### 19. Review

(a) The Parties will review the Agreement to consider consistency with the operating arrangements and requirements and such other matters agreed between the Parties, during the course of the Agreement.

(b) A Review Committee comprising of members from the respective Parties may be set up.

The Parties confirm that they have carefully gone through the contents of this Agreement and agree to abide by the terms and conditions as laid down herein.

Signed for and on behalf of GNN by:	Signed for and on behalf of Tata Steel Limited. by:
 महाप्रबन्धक (जल) नगर निगम गाजियाबाद Name: Designation: Date of signing:	 For Tata Steel Ltd. Mohit Das Chief, Corporate Services, TSM Name: Designation: Date of signing:
Signed for and on behalf of GWSPL by:	
 Name: Designation: Date of signing:	

Witness:

First Parties

Third Party

1.

1.

2.

2.

**Annexure- 1**

**Product (Recycled Water) Quality and Specifications**

Tertiary Treated Effluent Parameters			
Sr. No.	Parameter	Unit	Tertiary Treated - Industrial Grade Water
1	2	3	4
1	Turbidity	NTU	< 5
2	pH	-	6.0 - 7.5
3	Total Hardness as CaCO <sub>3</sub>	mg/l	< 300
4	Iron as Fe	mg/l	< 0.25
5	TDS	mg/l	< 500
6	BOD <sub>5</sub>	mg/l	< 2
7	COD	mg/l	< 50
8	Total Suspended Solids	mg/l	< 2
9	Total Nitrogen as N	mg/l	< 10
10	Total Phosphorus	mg/l	1
11	Apparent Color	Hazen Units	< 50
12	Alkalinity	mg/l	< 50

**For Tata Steel Ltd.**  
**Mohit Das**  
 Chief, Corporate Services, TSM

**જાલ**  
 મહાપ્રબંધક (જાલ)  
 નગર નિગમ ગાંધીધામ



# **Annexure-04**

**Status on Plantation for Tata Steel Limited, Sahibabad**

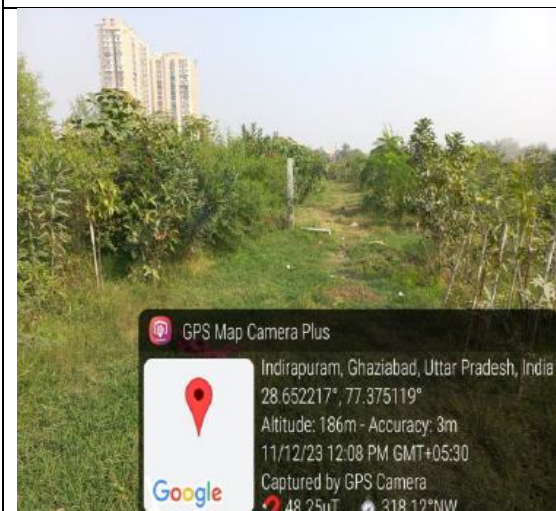
Plantation is being done in and around the existing plant as per the patches of land as allotted by Ghaziabad Nagar Nigam. Efforts are being put to plant more no. of saplings to go beyond the compliance requirement of 40% (7.12 ha) of the total existing plant area of 7.18 ha

<b>Legend no.</b>	<b>Location as allotted by Ghaziabad Nagar Nigam</b>	<b>Distance from Plant boundary (km)</b>	<b>Allotted Area (ha)</b>	<b>% of Plant area (17.8 ha)</b>	<b>Actual Plantation (nos.)</b>	<b>Remarks</b>
1	Inside existing plant	0	0.63	3.54	1974	Completed and being maintained
2	In front of main gate (Madan Mohan Malviya Marg)	0.01	0.20	1.12	845	Completed and being maintained
3	UP Gate to Traffic Light Triangular, Mohan Malviya Marg	0.3	1.83	10.28	9736	Completed and being maintained
4	Part of Indirapuram waste dump yard, Indirapuram	9	2.43	13.65	6200	Developed through external agency
5	Village Arthala	10	2.44	16.1	85000 (till March 2025)	Being developed through external agency including maintenance and sustenance
	<b>Grand Total</b>	-	<b>7.53</b>	<b>42.30</b>		

## Plantation Photographs



**Photographs: Village Arthala**



**Indrapuram Landfill Site**



**UP Gate**



**Plant Premises**



# **Annexure-05**

## Compliance Report: Social Impact Project in Sahibabad location

**FY 2025-2026**  
**April 2025-September 2025**

SN	Areas of Intervention in FY 25-26	Expenditure incurred (Lakhs)
1)	<b>Improving quality education</b>  (i) Bridge Course for irregular and drop out children.  (ii) Foundational & Numeracy for class- 2nd to 5th.  (iii) Teaching and Learning material support to Anganwadi Children.  (iv) Soft Skill Development of youth by providing courses on Basic IT, Advance IT and English Learning in collaboration with NIIT Foundation.  (v) The Green School Project.  (vi) School Infrastructure.	<b>16.59</b>
2)	<b>Healthcare Infrastructure</b>  (i) Construction of Anganwadi Centre.	<b>6.61</b>
<b>Total</b>		<b>23.20</b>

### Education

#### (i) Non-residential Bridge Course in Maharajpur

**Objective:** To provide educational support to out-of-school children by bridging learning gaps and facilitating their transition into the formal schooling system, ultimately enabling them to complete secondary education.

**Initiative Overview:** Tata Steel Foundation conducted a comprehensive survey in the Maharajpur area to identify irregular, out-of-school, and dropout children in FY 2025. Based on the findings, 16 Non-Residential Bridge Course (NRBC) centres are in operation in the community to address these gaps. These centres currently support 481 children (279 boys and 202 girls), offering structured learning programs tailored to their academic needs.

#### Key Features of the Program:

- **Regular Classes:** Daily sessions ensure consistent learning and help children regain academic confidence.
- **Bridging Learning Gaps:** Focused curriculum designed to strengthen foundational skills in literacy and numeracy.
- **Transition to Formal Schooling:** Preparing students for mainstream education and formal schooling.

#### Expected Outcome:

- Mainstreaming children into formal schools.
- Reducing dropout rates and improving retention.
- Empowering children with age-appropriate academic proficiency.
- Contributing to the goal of universal education in the region.

**No. of Beneficiaries: 481**



Regular classes in Non Residential Bridge Course Centre

**(ii) Foundation Literacy and Numeracy in Government School (FLN)**

**Objective:** To strengthen foundational literacy and numeracy skills of students from Classes 2nd to 5th by reducing learning gaps and ensuring age-appropriate academic competencies.

The FLN Program has been started in Composite School Maharajpur for students of Classes 2nd to 5th. A total of 190 children are being benefitted through structured learning activities and regular academic support. The program focuses on improving basic literacy and numeracy skills through interactive teaching methods, activity-based learning, and continuous assessment. This initiative is expected to significantly improve learning outcomes and ensure that children achieve age-appropriate academic proficiency.

**No. of Beneficiaries- 190 Children.**



Sessions on Foundational Literacy and Numeracy



### (iii) Support to Anganwadi Centre

**Objective:** Support early childhood education and to enhance the cognitive, social, and emotional development of children aged 3–6 years.

Support has been extended to 02 Anganwadi Centres in Maharajpur area by providing Teaching and Learning Materials (TLM) including slates, puzzles, stationary, flashcards, picture books, etc to make classroom learning more interactive and engaging.

Along with material support, learning activities and celebration of special days are being conducted to improve children's participation and confidence. The initiative has helped in improving the cognitive skills, social behaviour, and emotional expression of the children, contributing to a joyful and meaningful early learning environment.

**No. of Beneficiaries: 60**



Learning activities and celebration of important days.

### (iv) IT and English Learning Centre in collaboration with NIIT Foundation

**Objective:** Soft Skill development among youth by providing courses on Basic IT, Advance IT and English Learning in collaboration with NIIT Foundation.

Tata Steel Foundation, in collaboration with NIIT Foundation, has established one English and IT learning center to equip youths of proximate village to upgrade soft skill development. This will empower the youth and will enhance the employability and personal growth of young individuals preparing them for further education and competitive job contributing effectively to the community.

In FY 2025-26, 202 children are targeted to be benefited, and at present 119 children are enrolled and undergoing training.

**No. of Beneficiaries: 119**



Basic & Advance IT classes



English Learning classes

#### (v) The Green School Initiative

**Objective:** Enhancing students' knowledge in environment awareness and conservation through 'The Green School Initiative'.

The Green School Project is being implemented in collaboration with TERI, The Energy Resource Institute in 15 Government school of Sahibabad, Ghaziabad District. The Green School Project is a sustainability education program focused on environmental awareness and action to educate students on climate change, promote sustainable practices, and encourage holistic, critical, and interdisciplinary thinking through both classroom and outdoor learning experiences.

FY 2025-2026, 4500 children of 15 Government school are being targeted.

1. **Be-ecomatic Workshop: Be Ecomatic Workshop**, in collaboration with **The Energy and Resources Institute (TERI)**, was conducted across seven government schools in Ghaziabad to promote awareness on **waste management** and **biodiversity conservation**. A baseline assessment was carried out to gauge students' existing knowledge. The workshop featured engaging, hands-on activities such as:

- **Self-Watering Plant** – Demonstrated innovative irrigation methods, reducing water wastage and encouraging plant care.
- **Paper Recycling** – Taught students how to recycle the waste papers generated in school paper, reducing deforestation and promoting resource conservation.
- **Matka Composting** – Showed how kitchen waste can be converted into compost, minimizing landfill waste and enriching soil health.
- **Bio-Enzyme Creation** – Introduced natural cleaning solutions made from fruit peels, reducing chemical usage and promoting eco-friendly alternatives.

These activities not only provided practical learning but also inspired students to adopt sustainable practices in their daily lives, fostering environmental responsibility and long-term behavioral change.

2. **Formation of Environment Management Committee:** has been established in seven schools to empower students to take responsibility for adopting sustainable practices within the school ecosystem. The EMC serves as a platform for children to actively participate in environmental conservation initiatives and develop leadership skills in sustainability. This promotes environmental awareness among students, encourages responsibility and Leadership Development.
3. **Teachers Workshop & Expert Session:** On 9th July 2025 a Teachers' Workshop was organized by Tata Steel Foundation (TSF) in collaboration with TERI to reflect the schools' experiences over the past year and expert session to enhance teachers' knowledge on renewable energy and its practical applications in school settings.
4. **Celebration of Important Days:** Under the Green School Programme, children actively participate in meaningful environmental activities such as plantation drives, poster making on Earth Day, Paper Bag Day, World Coconut Day, Tiger Day celebrations, and Best Out of Waste competitions. These initiatives help develop environmental awareness, creativity, and responsible behaviour among students, encouraging them to adopt sustainable habits and contribute towards a greener and cleaner environment.



**No. of Beneficiaries: 2689**



Be Ecomatic Workshop



Be Ecomatic Workshop



Teachers Workshop



Celebration of Tiger Day

#### (vi) Construction of Classroom in Govt School

**Objective:** Bridging gaps in educational infrastructure to enable access to education

To reduce overcrowding and improving the learning environment and supporting better attention and academic outcomes, 02 classrooms have been constructed in Composite School Vaishali. This infrastructure development will benefit 585 children. The inauguration is scheduled to be held in the month of December.

**No. of Beneficiaries:** 585 children.



Construction of classroom at Composite School Vaishali



## Healthcare Infrastructure

### (i) Construction of Anganwadi Centre Infrastructure

**Objective:** Develop infrastructure that improves living standards of communities.

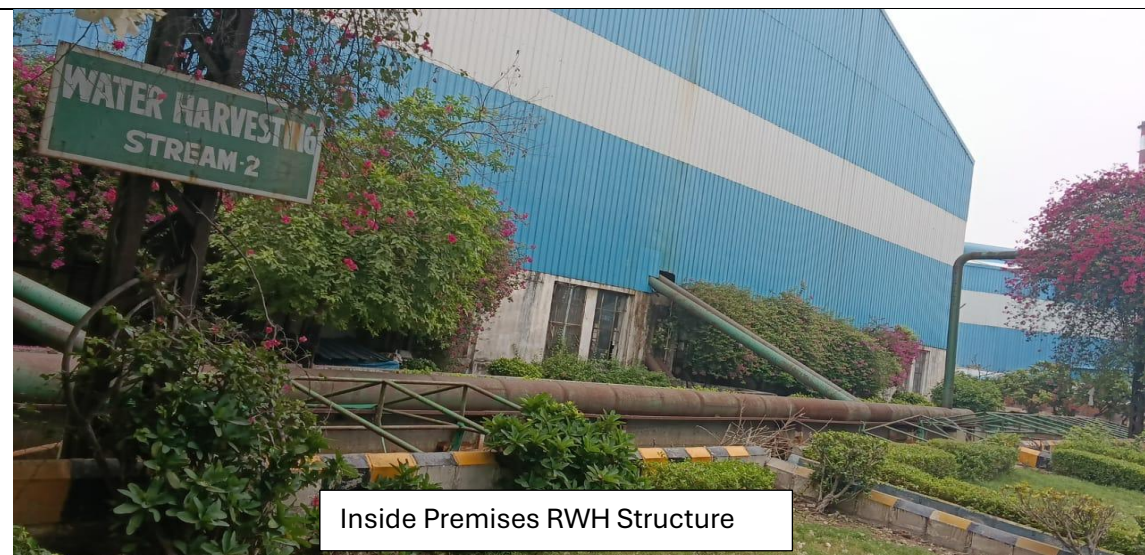
To address the issue of healthcare infrastructure to ensure that children between age group of 3-6 years receives complete care and pre-primary education through improved Anganwadi Infrastructure. Total 02 Anganwadi infrastructure (01 in Karheda, 01 in Loni ) has been constructed and likely to be inaugurated in Dec 2025



Anganwadi Centre constructed by Tata Steel Foundation at Karheda & Loni,  
Ghaziabad

# **Annexure-06**

### Photographs on Rain water Harvesting & Adopted Ponds



Inside Premises RWH Structure



Out Side Premises- Adopted Pond



Out Side Premises- Adopted Pond



Out Side Premises- Adopted Pond



Out Side Premises- Adopted Pond



# **Annexure-07**

Photographs: Awareness on Ban on Single Use Plastic



# **Annexure-08**



## ENVIRONMENTAL POLICY

Tata Steel's environmental responsibilities are driven by our commitment to preserve the environment and are integral to the way we do business.

1. We are committed to deal proactively with Climate Change issue by efficient use of natural resources & energy; reducing and preventing pollution; promoting waste avoidance and recycling measures; and product stewardship.
  - We shall identify, assess and manage our environment impact.
  - We shall regularly monitor, review and report publicly our environmental performance.
  - We shall develop & rehabilitate abandoned sites through afforestation and landscaping and shall protect and preserve the biodiversity in the areas of our operations.
  - We shall enhance awareness, skill and competence of our employees and contractors so as to enable them to demonstrate their involvement, responsibility and accountability for sound environmental performance.
2. We are committed to continual improvement in our environmental performance.
  - We shall set objective-targets, develop, implement and maintain management standards and systems, and go beyond compliance of the relevant industry standards, legal and other requirements.
3. We will truly succeed when we sustain our environmental achievement and are valued by the communities in which we work.

**Date :** November 1, 2017



**T V Narendran**  
CEO & Managing Director



# **Annexure-09**





TSL/EC-CRM/2024/07-02  
July 16, 2024

**The Member Secretary**

Uttar Pradesh Pollution Control Board  
TC- 12-V, Vibhuti Khand, Gomti Nagar  
Lucknow (U.P)

**Subject: Intimation of "Grant of Environmental Clearance" for Existing production facilities for 0.91 MTPA Cold rolled strips & sheets (1250 MT/Day) and Galvanized plain/corrugated sheets (1250 MT/Day) at Plot no-23, Site-IV, Industrial Area, Sahibabad, District Ghaziabad, Uttar Pradesh by M/s Tata Steel Limited.**

**Reference:** EC Identification No. - EC23A1012UP5722103N and file no. IA-J-11011/497/2021-IA-II(IND-I) dated July 09, 2024

Dear Sir,

With reference to the aforesaid subject and above cited reference, this is to inform you that as per Ministry's notification dated July 20, 2022, Tata Steel Limited, Sahibabad has been granted for Environment Clearance on July 09, 2024 for the existing production facilities for 0.91 MTPA Cold rolled strips & sheets (1250 MT/Day) and Galvanized plain/corrugated sheets (1250 MT/Day) at Plot no-23, Site-IV, Industrial Area, Sahibabad, District Ghaziabad, Uttar Pradesh.

A copy of above Environment Clearance vide EC Identification No. EC23A1012UP5722103N and File No. - IA-J-11011/497/2021-IA-II(IND-I) issue on July 09, 2024 is attached as Annexure-1 for your kind reference.

We hope above is the line with the statutory requirements.

Thanking you,

**For Tata Steel Limited, Sahibabad**

*Anoop Srivastava*

**Anoop Srivastava  
Chief Environment TSM  
(Authorized Signatory)**

**Encl:** As above



Copy to:

1. Commissioner, Municipal Corporation- Ghaziabad.
2. Regional Officer, Uttar Pradesh Pollution control Board, Vasundhara, Ghaziabad.



**TATA STEEL LIMITED**