



Ref No. TSLMD/ENV/26-05/10

Date: 25/05/2026

To  
IGF& Incharge,  
GOI, MOEF&CC, Integrated Regional Office,  
Kolkata, 1B-198, Salt Lake City,  
Sector III, Kolkata- 700106

**Sub: Six monthly Compliance Report of Expansion of Steel Plant (Hot Metal Production from 0.5 to 0.75 MTPA, DI Pipe production from 0.3 to 0.5 MTPA and production of 0.1 MTPA casting & fittings) located at Village-Maheshpur, PO-Samraipur, PS. Kharagpur (Local), Dist: Paschim Medinipur, West Bengal by M/s Tata Steel Limited, Metaliks Division (Formerly Tata Metaliks Limited)**

**Ref:** 1. EC vide MoEF&CC letter no. F.No. J-11011/377/2013-IA- II (I) dated: 28.01.2019 and further amendment dated. 27.01.2021.  
2. Transfer of EC granted by MoEF&CC vide F.No J-11011/377/2013-IA-II(I) dated 21.11.2024 (EC Identification No. EC24A1001WB5644452T) from Tata Metaliks Limited to Tata Steel Limited, Metaliks Division.

Dear Sir,

Please find enclosed the Six Monthly Compliance report (October'25 to March'26) for Environmental clearance no:- F.No. J-11011/377/2013-IA.-II(I) dated 28.01.2019 and further amendment dtd. 27.01.2021 for the condition stipulated in Environment Clearance to the Tata Steel Limited, Metaliks Division (Formerly Tata Metaliks Limited) at Vill- Mahespur, Kharagpur (W.B).

The copy of the compliance report is sent to you as soft copy through e-mail (iro.kolkata-mefcc@gov.in) and same also will be uploaded in the Tata Steel Limited website for your kind perusal.

Thanking you.

Yours sincerely,  
**For Tata Steel Limited, Metaliks Division**

Ujjal Ghosh  
Factory Manager & Chief Operations Metaliks (Iron Making & DIP)

**Enclosure – As above**

**CC:**

<b>Member Secretary West Bengal Pollution Control Board, Paribesh Bhawan, 10 A, Block-LA, Sector-III, Salt Lake City, Kolkata – 700 098</b>	<b>Environmental Engineer &amp; I/c, West Bengal Pollution Control Board, Haldia Regional Office, West Bengal</b>	<b>CPCB, Zonal Office Kolkata</b>
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**TATA STEEL LIMITED**

Metaliks Division Vill Maheshpur PO Samraipur PS Kharagpur Local Distt. Paschim Medinipur Pin 721301 Phone Number: 9073331142  
Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001 India Tel 91 22 66658282  
Corporate Identification Number L27100MH1907PLC000260

**Half Yearly EC Compliance Report of Expansion of Hot Metal from 0.5 to 0.75 MTPA, DI Pipe from 0.3 to 0.5 MTPA and 0.1 MTPA casting & fittings by M/s Tata Steel Limited, Metaliks Division (Formerly M/s Tata Metaliks Limited) at village Maheshpur, Paschim Medinipur District, West Bengal vide letter no. F.No. J-11011/377/2013-IA.II(I) dated 28.01.2019 & further amendment dated 27.01.2021 for the period Oct'25 to Mar'26**

**I. Statutory compliance:**

<b>S.N.</b>	<b>Conditions</b>	<b>Compliance status</b>
i.	The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the State Pollution Control Board.	<b>Agreed.</b> Consent to Establish/ Operate has been obtained under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the State Pollution Control Board.
ii.	The project proponent shall obtain necessary permission from the Central Ground Water Authority, in case of drawl of ground water/ from the competent authority concerned in case of drawl of surface water required for the project.	<b>Agreed.</b> Permission from SWID (State Water Investigation Directorate) as per implementation of CGWA revised guidelines for ground water withdrawal has been obtained.
iii.	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	<b>Agreed.</b> Authorization under Hazardous and other Waste Management Rules, 2016 has already been obtained.

**II. Air quality monitoring and preservation:**

<b>S.N.</b>	<b>Conditions</b>	<b>Compliance status</b>
i.	The project proponent shall install 24 x 7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414(E) dated 30th May 2008 as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) 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.	<b>Complied.</b> All the process stacks are provided with 24 x 7 continuous emission monitoring system. Data connectivity has been provided to CPCB new server and calibration of the same are being done on regular basis by OEM involving labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
ii.	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.	<b>Complied.</b> Fugitive emissions in the plant premises have been carried out quarterly through NABL accredited & SPCB recognized laboratories. Fugitive emission monitoring report is enclosed herewith as <b>Annexure-1</b> for your ready reference.

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iii.	The project proponent shall install Continuous Ambient Air Quality monitoring for monitoring of common/ criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx emissions) within and 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.	<b>Complied.</b> Four continuous Ambient Air Quality monitoring station (CAAQMS) has already been installed within and outside the plant area. In addition to this, manual monitoring of ambient air quality through portable air samplers are being carried out through MoEF&CC and NABL accredited agency. Photograph of CAAQMS is attached as <b>Annexure- 2</b> for your ready reference.
iv.	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring along with results of manual stack monitoring and manual monitoring of air quality/ fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	<b>Complied.</b> Monthly summary report of Continuous stack Emission Monitoring System (CEMS) & Continuous Ambient Air Quality Monitoring Station (CAAQMS) is enclosed herewith as <b>Annexure – 3 (a &amp; b)</b> . Manual monitoring report of both stack & ambient air quality is enclosed herewith as <b>Annexure – 4 (a &amp; b)</b> . Last monitoring report has been submitted to MoEF&CC, Zonal office of CPCB and Regional Office of SPCB on letter no TSLMD/ENV/25-11/33 dtd.21.11.2025
v.	Appropriate Air Pollution Control (APC) systems shall be provided at all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	<b>Complied.</b> Fume Extraction System, ESPs, bag filters & cyclone separators have been provided in MBF, Raw Material Handling System, Sinter Plant & ductile iron pipe plant to control point source emission. To control fugitive emission apart from bag filter, dry fog dust suppression system, high pressure fog system & water sprinkling system has been installed in ground hoppers, transfer house at Raw Material Handling Systems (RMHS). Fume extraction with de-dusting system has been installed for LRS (Ladle Repairing Shop & MBF#1 & MBF#2 cast house.
vi.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better operation of baghouse.	<b>Complied.</b> Purging facility is already provided with existing bag filters for bag cleaning. Leakage is detected through differential pressure measurement across the filter assembly.
vii.	Provide pollution control system in the sponge iron plant as per the CREP Guidelines of CPCB.	<b>Not applicable.</b> because Tata Steel, Metaliks Division is not having sponge iron plant.
viii.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	<b>Complied.</b> Mobile road sweeping machine (DULEVO 5000) has been deployed for cleaning of plant roads. Housekeeping is being done on regular basis by

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		manually also on roads, shop floors, roofs. Photograph is attached in <b>Annexure-5</b> .
ix.	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.	<b>Complied.</b> The iron ore fines, coal fines and coke fines are stored in demarcated places & used in the Sinter plant within the premises. Dust collected from ESPs and bag filters is used in Sinter plant for agglomeration (sinter making) process.
x.	The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.	<b>Complied.</b> Raw material transportation through trucks & railway (rake) are done which are covered with tarpaulin. Within plant covered conveying system is installed to avoid spillage. Photograph is attached in <b>Annexure-6</b> for your ready reference.
xi.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	<b>Complied.</b> Wind shelter fence have been provided at the periphery of the screening plant area, air separation unit, iron ore yard. Similar installation has been planned for other stockpile area. Water sprinkling system has been provided for the screening plant area for dust suppression. Mobile Fog canon has been deployed in yards for dust suppression. Apart from the above tarpaulin cover is provided for stockpiles. Covered shed has been constructed for coal storage, to avoid fugitive emission. Photograph is attached in <b>Annexure-7</b> for your ready reference.

**III. Water quality monitoring and preservation:**

S.N.	Conditions	Compliance status
i.	The project proponent shall install 24 x 7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414(E) dated 30th May 2008; S.O. 3305 (E) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) 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.	<b>Complied.</b> The plant is Zero Effluent Discharge unit and not discharging any process effluent to outside the plant premises. All the wastewater is being treated through ETPs & reutilized as process make up, dust suppression & washing purpose.
ii.	The project proponent shall monitor regularly ground water quality at least	<b>Complied.</b>

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	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.	Yearly twice ground water sampling & analysis is being carried out by WBPCB laboratory & NABL accredited Laboratory. Piezometer has already been installed outside plant at nearby village area. It is proposed to install the same inside plant in near future. Ground Water testing report is attached in <b>Annexure-8</b> for your ready reference.
iii.	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of groundwater quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six- monthly monitoring report.	<b>Complied.</b> Analysis reports of recycled effluent & ground water quality are attached herewith in <b>Annexure- 9 and Annexure-8.</b> Monitoring report has been submitted as a part of six- monthly monitoring report. Last monitoring report has been submitted to MoEF&CC, Zonal office of CPCB and Regional Office of SPCB on letter no TSLMD/ENV/25-11/33 dtd.21.11.2025
iv.	Adhere to 'Zero Liquid Discharge'.	<b>Complied.</b> The unit have been maintained Zero Effluent Discharge. All the wastewater is being treated through Effluent treatment Plants (ETP) and reuse in process make up, cooling purpose, dust suppression & washing purpose.
v.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	<b>Complied.</b> Domestic wastewater generated from the plant toilets are treated through septic tank followed by soak pit. Further Sewage Treatment Plant has been installed at plant premises.
vi.	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>Complied.</b> Peripheral drains connected with catch pits have been constructed in some stockpiles. The same will be extended for new stockpile areas.
vii.	The project proponent shall practice rainwater harvesting to maximum possible extent.	<b>Complied.</b> Rainwater harvesting pond has been made to store rainwater & reuses in plant operation. We have also constructed rainwater harvesting pit in plant area to collect the roof top run off water & use in toilets & dust suppression. As per WBPCB guideline ground water recharging is not permitted within plant premises. We have also initiated water sustainability projects at nearby village area under the ambit of CSR. Under this, rainwater harvesting (storage & recharge) structures have been constructed at Village name. Some photographs are attached as <b>Annexure-10</b> for your ready reference.

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viii.	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.	<p><b>Complied.</b></p> <p>Water from MBF-1 &amp; 2, Sinter plant, CPPs, Ductile Iron Pipe plant is treated in separate ETPs as per quality of wastewater generated &amp; usage requirement. The treated water is being recycled for different processes in the plant viz., Pig quenching, slag granulation, cement lining and dust suppression purpose. Entire wastewater is treated and is recycled back for different processes. Additional effluent treatment plant of 450 m3/day capacity is in operation &amp; treated water is being used at cooling tower of CPP#2. RO plant 30 m3/hr is installed for Ductile Iron Pipe unit.</p>
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**IV. Noise monitoring and prevention:**

S.N.	Conditions	Compliance status
i.	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of this Ministry as a part of six-monthly compliance report.	<p><b>Complied.</b></p> <p>Ambient noise and Work zone noise level is monitored on quarterly basis. Same is attached as <b>Annexure -11.</b></p>
ii.	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.	<p><b>Complied.</b></p> <p>The Ambient noise level in and around the plant area is well within the prescribed standards. Noise level monitoring result at different locations are attached as <b>Annexure-11.</b></p>

**V. Energy Conservation measures:**

S.N.	Conditions	Compliance status
i.	The project proponent shall provide waste heat recovery system on the DRI Kilns.	<b>Not applicable</b> because Tata Steel Limited, Metaliks Division is not having DRI Kilns operation.
ii.	The dolochar generated shall be used for power generation.	<b>Not Applicable</b> because Tata Steel Metaliks Division is not having DRI Kilns & Dolochar.
iii.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, streetlights, parking around project area and maintain the same regularly.	<p><b>Complied.</b></p> <p>1 MWp roof top solar power plant at DIP-1 (Small Dia Pipe), 1.8 MWp roof top solar power plant at DIP-2 (Large Dia Pipe) unit and two other solar power systems of 10 KWp &amp; 17.8 KWp capacity have been installed and under operation. Solar streetlights have been installed for internal road. A solar water heater of 1000 litre per day capacity has been installed at Central canteen roof top. All the solar systems are being maintained on regular basis.</p>
iv.	Provide LED lights in their offices and residential areas.	<p><b>Complied.</b></p> <p>LED lights have been provided in most of the offices &amp; plant site and will be installed in all newly build offices in future.</p>

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**VI. Waste Management:**

S.N.	Conditions	Compliance status
i.	Used refractories shall be recycled as far as possible.	<b>Complied.</b> Used refractories are used for paving purpose at MBF area.
ii.	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> because of no Fly Ash generation in the plant. Our Captive Power Plant is gas based.
iii.	The waste oil, grease and other hazardous waste shall be disposed of as per Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.	<b>Complied.</b> Used oil & other hazardous waste is stored and disposed of through authorized agency as per regulatory requirement i.e. Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
iv.	Kitchen waste shall be composted or converted to biogas for further use.	<b>Complied.</b> Biogas plant of 150 Kg/d capacity has been installed for treating the kitchen waste. The gas is used for cooking purpose at plant canteen.

**VII. Green Belt:**

S.N.	Conditions	Compliance status
i.	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	<b>Being complied.</b> Green belt in an area equal to 33% is being developed inside as well as outside own land. We have total approx. 58452 nos of tree planted as of now. Out of this 2418 & 9711 nos. saplings have been planted inside & at nearby community during FY 2025-2026. Every year plantation is being done in available space. However further augmentation & gap filling will continue from time to time. The different local species planted are Polythea longifolia, Casullina aquisitifolia, Alstonia scholaris Teccoma stans, Azdirachta indica, Dalbergia sisoo, Mimosops elengi, Cassia fistula, Kath Badam, lagerstroemia (Jarul), Neem, Karanj etc.
ii.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	<b>Complied.</b> GHG emission inventory has been prepared & verified by accredited agency. Inventory is being carried out on monthly basis and annual figures are computed. Program for carbon footprint reduction is attached as <b>Annexure – 12</b> for your ready reference.

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**VIII. Public hearing and Human health issues:**

S.N.	Conditions	Compliance status
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	<b>Complied.</b> Onsite Emergency plan for the existing unit is already in place. HIRA has been prepared & is reviewed from time to time.
ii.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protective Equipment (PPE) as per the norms of Factory Act.	<b>Complied.</b> Work zone heat stress monitoring is being carried out on regular basis by accredited agency. Required PPEs are being provided for the workmen deployed in hot zone area. Man-cooler, fog canon, mist system and proper ventilation system has been provided to reduce the work zone temperature.
iii.	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>Complied.</b> Now plant is operational since 2019 & no labour is residing in plant premises.
iv.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	<b>Complied.</b> Regular health surveillance of all the workers is being conducted. Record of pre-employment health checkup is attached as <b>Annexure -13</b> .

**IX. Corporate Environment Responsibility:**

S.N.	Conditions	Compliance status
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.	<b>Complied.</b> Compliance w.r.t Corporate Environment Responsibility is enclosed as <b>Annexure - 14</b> .
ii.	The company shall have a well laid down environmental policy duly approved 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.	<b>Complied.</b> Tata Steel's Central Environmental Policy is followed by Metaliks division. Copy is enclosed as <b>Annexure-15</b> .

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iii.	A separate Environmental Cell both at the project and company head level, with qualified personnel shall be set up under the control of senior Executive, who will report directly to the head of the organization.	<p><b>Complied.</b></p> <p>A separate Environment Management Cell has already been set up with a permanent qualified Environment officer to execute environment protection measures related activities under the control of Executive In- Charge of the unit.</p> <p>The Corporate Environment Management Cell of Tata Steel, Jamshedpur works, headed by Chief – Environment and respective Heads – Environment also monitors and supervises the environmental activities of the Metaliks division at a regular basis.</p> <p>Organization chart is attached as <b>Annexure-16</b> is for your ready reference.</p>
iv.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/ Regional Office along with the Six Monthly Compliance Report.	<p><b>Complied.</b></p> <p>Year wise action plan for implementing EMP and environmental conditions with responsibility matrix has been prepared and reviewed from time to time. Funds have been earmarked towards capital as well as recurring cost for environment protection measures to implement the conditions stipulated by MoEF&amp;CC. The capital investment &amp; action plan on environment protection is enclosed as <b>Annexure-17</b>. Funds so provided are not diverted for any other purpose.</p>
v.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	<p><b>Complied.</b></p> <p>Self- environmental audit is conducted as a part of the surveillance audit &amp; internal audit as per Environment Management System requirement. Audit as per the requirement of ISO 14001:2015 is being carried out. Third party environmental audit has been carried out through accredited agency. Attached report is in <b>Annexure-18</b>.</p>
vi.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Sponge Iron Plants shall be implemented.	Not applicable.

**X. Miscellaneous:**

S.N.	Conditions	Compliance status
i.	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 in at least 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	<p><b>Complied.</b></p> <p>Environment clearance information/notice had been advertised in two local newspaper dated 01.02.2019 in English Paper and Bengali Paper viz The Telegraph and Ananda Bazar Patrika attached as <b>Annexure-19</b>.</p>

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	displayed in the project proponent's website permanently.	
ii.	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.	<b>Complied.</b> A copy of the environmental clearance had been submitted to the head of local bodies in addition to the relevant offices.
iii.	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.	<b>Complied.</b> Compliance condition status of Environment clearance has been uploaded along with monitoring data on company website ( <a href="http://www.tatasteel.com">www.tatasteel.com</a> ) on half yearly basis. Copy is attached as <b>Annexure-20</b> for your ready reference.
iv.	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.	<b>Complied</b> at regular interval. Display of ambient & stack emission reports have been displayed at plant main gate. The same is being uploaded on company website as a part of six- monthly compliance report.
v.	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 & Climate Change at environment clearance portal.	<b>Complied</b> Six-monthly reports on the status of the compliance of the stipulated environmental conditions have been uploaded on the website of MoEFCC at environment clearance portal Parivesh 2.0. Last submitted/acknowledgement copy is enclosed as <b>Annexure-21</b> .
vi.	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.	<b>Complied.</b> Environment statement has been submitted to the concerned State Pollution control Board in FORM-V vide letter no. TSLMD/ENV /25-09/27 dated: 11.09.2025 and same has been uploaded on the company website ( <a href="http://www.tatasteel.com">www.tatasteel.com</a> ) . Copy enclosed as <b>Annexure-20</b> for your reference.
vii.	The project proponent shall inform the Regional 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.	Agreed.
viii.	The project authorities must strictly adhere to the stipulations made by the State	Agreed

**Half Yearly EC Compliance Report of Expansion of Hot Metal from 0.5 to 0.75 MTPA, DI Pipe from 0.3 to 0.5 MTPA and 0.1 MTPA casting & fittings by M/s Tata Steel Limited, Metaliks Division (Formerly M/s Tata Metaliks Limited) at village Maheshpur, Paschim Medinipur District, West Bengal vide letter no. F.No. J-11011/377/2013-IA.II(I) dated 28.01.2019 & further amendment dated 27.01.2021 for the period Oct'25 to Mar'26**

	Pollution Control Board and the State Government.	
ix.	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.	<b>Complied.</b> We have implemented all the commitments made during /Public Hearing which is also mentioned in EIA & EMP report. The same is also a part of the Corporate Environment Responsibility (CER) enclosed as <b>Annexure - 14.</b>
x.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests & Climate Change (MoEF&CC).	Agreed
xi.	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
xii.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed
xiii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	Agreed
xiv.	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
xv.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 alongwith their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	Agreed
xvi.	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



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.001-A Issue Date : 16/03/2026  
 ULR No : TC704726100000577F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 26/2/2026  
 Sampling Location : NEAR TAIL ESP  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Work Environment and Indoor Air Quality				
<b>DISCIPLINE:</b> CHEMICAL					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	18.4	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	34.7	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.001-B

Issue Date : 16/03/2026

JOE No : KE26-000552

Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 26/2/2026  
 Sampling Location : NEAR TAIL ESP  
 Sampling Method : SO-IN-MUL-TE-176

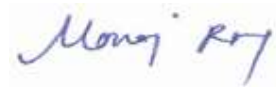
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	259.38	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1171.60	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.002-A Issue Date : 16/03/2026  
 ULR No : TC704726100000578F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 26/02/2026  
 Sampling Location : NEAR PIG IRON YARD  
 Sampling Method : SO-IN-MUL-TE-176

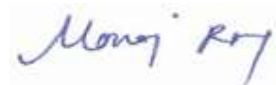
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Work Environment and Indoor Air Quality				
<b>DISCIPLINE:</b> CHEMICAL					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	9.5	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	22.5	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.002-B

Issue Date : 16/03/2026

JOE No : KE26-000552

Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 26/02/2026  
 Sampling Location : NEAR PIG IRON YARD  
 Sampling Method : SO-IN-MUL-TE-176

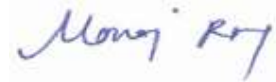
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	106.53	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	218.78	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.003-A Issue Date : 16/03/2026  
 ULR No : TC704726100000579F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 26/02/2026  
 Sampling Location : NEAR HEAD ESP  
 Sampling Method : SO-IN-MUL-TE-176

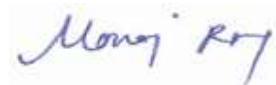
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Work Environment and Indoor Air Quality				
<b>DISCIPLINE:</b> CHEMICAL					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	8.8	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	21.5	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.003-B

Issue Date : 16/03/2026

JOE No : KE26-000552

Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 26/02/2026  
 Sampling Location : NEAR HEAD ESP  
 Sampling Method : SO-IN-MUL-TE-176

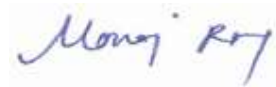
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	94.57	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	293.09	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.004-A Issue Date : 16/03/2026  
 ULR No : TC704726100000580F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 26/02/2026  
 Sampling Location : NEAR SCRAP YARD  
 Sampling Method : SO-IN-MUL-TE-176

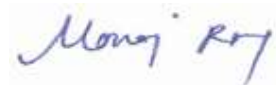
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Work Environment and Indoor Air Quality				
<b>DISCIPLINE:</b> CHEMICAL					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	17.0	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	32.8	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000552.004-B

**Issue Date** : 16/03/2026

**JOE No** : KE26-000552

**Report Control No** : KER0000252386

**Customer Provided Information**

**Sample Described by Customer as** : WORKZONE AIR QUALITY MONITORING

**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
: SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : WORKZONE AIR QUALITY MONITORING  
**Sampling Date** : 26/02/2026  
**Sampling Location** : NEAR SCRAP YARD  
**Sampling Method** : SO-IN-MUL-TE-176

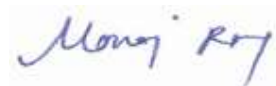
**Lab Provided Information**

**Sample Type** : WORKZONE  
**Received** : 09/03/2026  
**Test Start/End Date** : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	561.29	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	2271.86	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.005-A Issue Date : 16/03/2026  
 ULR No : TC704726100000581F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 26/02/2026  
 Sampling Location : NEAR IRON ORE YARD  
 Sampling Method : SO-IN-MUL-TE-176

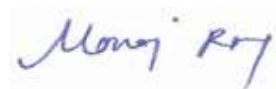
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>		Work Environment and Indoor Air Quality			
<b>DISCIPLINE: CHEMICAL</b>					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	25.2	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	46.4	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.005-B

Issue Date : 16/03/2026

JOE No : KE26-000552

Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 26/02/2026  
 Sampling Location : NEAR IRON ORE YARD  
 Sampling Method : SO-IN-MUL-TE-176

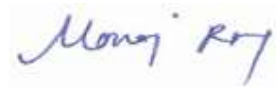
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	1648.82	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	3954.92	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.006-A Issue Date : 16/03/2026  
 ULR No : TC704726100000582F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 27/02/2026  
 Sampling Location : NEAR COAL YARD  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Work Environment and Indoor Air Quality				
<b>DISCIPLINE:</b> CHEMICAL					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	19.0	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	33.2	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.006-B

Issue Date : 16/03/2026

JOE No : KE26-000552

Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 27/02/2026  
 Sampling Location : NEAR COAL YARD  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	422.86	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1686.69	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.010-A Issue Date : 16/03/2026  
 ULR No : TC704726100000586F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 27/02/2026  
 Sampling Location : NEAR OXYGEN PLANT  
 Sampling Method : SO-IN-MUL-TE-176

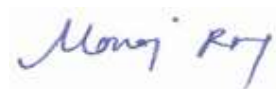
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Work Environment and Indoor Air Quality				
<b>DISCIPLINE:</b> CHEMICAL					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	26.5	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	56.2	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

<b>Report No</b>	: KE26-000552.010-B	<b>Issue Date</b>	: 16/03/2026
		<b>JOE No</b>	: KE26-000552
<b>Report Control No</b>	: KER0000252386		

**Customer Provided Information**

**Sample Described by Customer as** : WORKZONE AIR QUALITY MONITORING

**Customer Name** : TATA STEEL LIMITED

**Customer Address** : METALIKS DIVISION KHARAGPUR  
: SAMRAIPUR, GOKULPUR

**City** : PASCHIM MEDINIPUR

**Postal Code** : 721301

**Country** : INDIA

**Sample Description** : WORKZONE AIR QUALITY MONITORING

**Sampling Date** : 27/02/2026

**Sampling Location** : NEAR OXYGEN PLANT

**Sampling Method** : SO-IN-MUL-TE-176

**Lab Provided Information**

**Sample Type** : WORKZONE

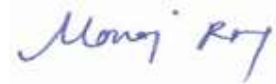
**Received** : 09/03/2026

**Test Start/End Date** : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	126.00	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	536.18	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.011-A Issue Date : 16/03/2026  
 ULR No : TC704726100000587F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 27/02/2026  
 Sampling Location : DIP DISPATCH YARD  
 Sampling Method : SO-IN-MUL-TE-176

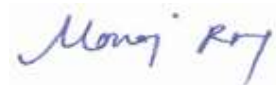
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>		Work Environment and Indoor Air Quality			
<b>DISCIPLINE: CHEMICAL</b>					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	19.0	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	37.2	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000552.011-B

**Issue Date** : 16/03/2026

**JOE No** : KE26-000552

**Report Control No** : KER0000252386

**Customer Provided Information**

**Sample Described by Customer as** : WORKZONE AIR QUALITY MONITORING

**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
: SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : WORKZONE AIR QUALITY MONITORING  
**Sampling Date** : 27/02/2026  
**Sampling Location** : DIP DISPATCH YARD  
**Sampling Method** : SO-IN-MUL-TE-176

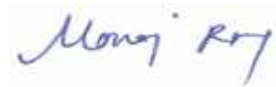
**Lab Provided Information**

**Sample Type** : WORKZONE  
**Received** : 09/03/2026  
**Test Start/End Date** : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	255.20	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1291.90	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.012-A Issue Date : 16/03/2026  
 ULR No : TC704726100000588F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 28/02/2026  
 Sampling Location : SINTER PRODUCT SCREEN HOUSE  
 Sampling Method : SO-IN-MUL-TE-176

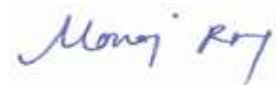
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Work Environment and Indoor Air Quality				
<b>DISCIPLINE:</b> CHEMICAL					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	21.8	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	41.1	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000552.012-B

**Issue Date** : 16/03/2026

**JOE No** : KE26-000552

**Report Control No** : KER0000252386

**Customer Provided Information**

**Sample Described by Customer as** : WORKZONE AIR QUALITY MONITORING

**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : WORKZONE AIR QUALITY MONITORING  
**Sampling Date** : 28/02/2026  
**Sampling Location** : SINTER PRODUCT SCREEN HOUSE  
**Sampling Method** : SO-IN-MUL-TE-176

**Lab Provided Information**

**Sample Type** : WORKZONE  
**Received** : 09/03/2026  
**Test Start/End Date** : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	988.03	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	2506.41	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.013-A Issue Date : 16/03/2026  
 ULR No : TC704726100000589F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 28/02/2026  
 Sampling Location : SINTER COOLER DISCHARGE AREA  
 Sampling Method : SO-IN-MUL-TE-176

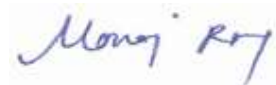
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Work Environment and Indoor Air Quality				
<b>DISCIPLINE:</b> CHEMICAL					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	9.5	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	27.4	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.013-B

Issue Date : 16/03/2026

JOE No : KE26-000552

Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 28/02/2026  
 Sampling Location : SINTER COOLER DISCHARGE AREA  
 Sampling Method : SO-IN-MUL-TE-176

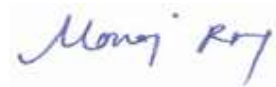
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	212.34	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	762.95	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.014-A Issue Date : 16/03/2026  
 ULR No : TC704726100000590F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 28/02/2026  
 Sampling Location : SINTER MACHINE DISCHARGE AREA  
 Sampling Method : SO-IN-MUL-TE-176

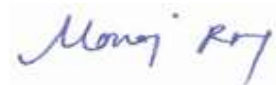
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Work Environment and Indoor Air Quality				
<b>DISCIPLINE:</b> CHEMICAL					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	12.2	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	30.3	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.014-B

Issue Date : 16/03/2026

JOE No : KE26-000552

Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 28/02/2026  
 Sampling Location : SINTER MACHINE DISCHARGE AREA  
 Sampling Method : SO-IN-MUL-TE-176

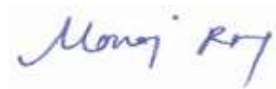
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	183.11	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	819.51	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.015-A Issue Date : 16/03/2026  
 ULR No : TC704726100000591F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 28/02/2026  
 Sampling Location : NEAR EXTERNAL COOLING FL-3  
 Sampling Method : SO-IN-MUL-TE-176

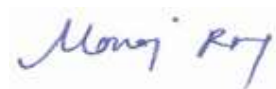
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>		Work Environment and Indoor Air Quality			
<b>DISCIPLINE: CHEMICAL</b>					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	16.3	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	34.2	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.015-B

Issue Date : 16/03/2026

JOE No : KE26-000552

Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED  
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 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 28/02/2026  
 Sampling Location : NEAR EXTERNAL COOLING FL-3  
 Sampling Method : SO-IN-MUL-TE-176

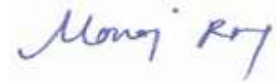
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	1168.07	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	4202.57	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.016-A Issue Date : 16/03/2026  
 ULR No : TC704726100000592F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 28/02/2026  
 Sampling Location : NEAR BITUMEN COATING FL-1  
 Sampling Method : SO-IN-MUL-TE-176

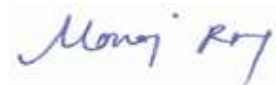
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Work Environment and Indoor Air Quality				
<b>DISCIPLINE:</b> CHEMICAL					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	8.2	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	19.1	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.016-B

Issue Date : 16/03/2026

JOE No : KE26-000552

Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 28/02/2026  
 Sampling Location : NEAR BITUMEN COATING FL-1  
 Sampling Method : SO-IN-MUL-TE-176

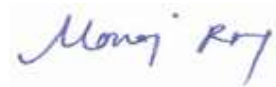
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	156.91	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	684.12	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.017-A Issue Date : 16/03/2026  
 ULR No : TC704726100000593F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 02/03/2026  
 Sampling Location : NEAR ZINC COATING FL-3  
 Sampling Method : SO-IN-MUL-TE-176

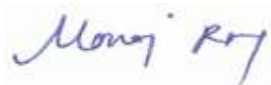
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>		Work Environment and Indoor Air Quality			
<b>DISCIPLINE: CHEMICAL</b>					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	7.5	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	17.6	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.017-B

Issue Date : 16/03/2026

JOE No : KE26-000552

Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 02/03/2026  
 Sampling Location : NEAR ZINC COATING FL-3  
 Sampling Method : SO-IN-MUL-TE-176

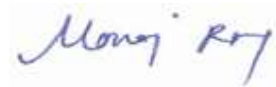
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	64.81	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	217.12	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.018-A Issue Date : 16/03/2026  
 ULR No : TC704726100000594F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 02/03/2026  
 Sampling Location : NEAR CORE SHOP DIP 1  
 Sampling Method : SO-IN-MUL-TE-176

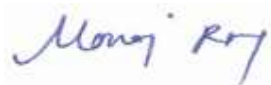
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Work Environment and Indoor Air Quality				
<b>DISCIPLINE:</b> CHEMICAL					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	8.2	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	20.0	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.018-B

Issue Date : 16/03/2026

JOE No : KE26-000552

Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 02/03/2026  
 Sampling Location : NEAR CORE SHOP DIP 1  
 Sampling Method : SO-IN-MUL-TE-176

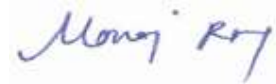
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	57.94	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	261.54	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.019-A Issue Date : 16/03/2026  
 ULR No : TC704726100000595F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 02/03/2026  
 Sampling Location : NEAR ZINC COATING FL-2  
 Sampling Method : SO-IN-MUL-TE-176

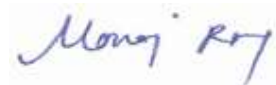
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>		Work Environment and Indoor Air Quality			
<b>DISCIPLINE: CHEMICAL</b>					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	12.9	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	25.9	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.019-B

Issue Date : 16/03/2026

JOE No : KE26-000552

Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 02/03/2026  
 Sampling Location : NEAR ZINC COATING FL-2  
 Sampling Method : SO-IN-MUL-TE-176

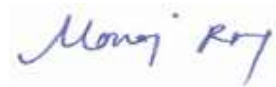
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	311.61	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1411.18	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.020-A Issue Date : 16/03/2026  
 ULR No : TC704726100000596F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 02/03/2026  
 Sampling Location : NEAR CORE SHOP DIP 2  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Work Environment and Indoor Air Quality				
<b>DISCIPLINE:</b> CHEMICAL					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	10.2	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	22.0	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.020-B

Issue Date : 16/03/2026

JOE No : KE26-000552

Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 02/03/2026  
 Sampling Location : NEAR CORE SHOP DIP 2  
 Sampling Method : SO-IN-MUL-TE-176

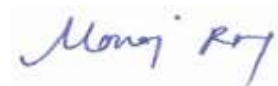
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	87.08	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	327.74	ug/m3		10000

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Page 1 of 1

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000552.021-A **Issue Date** : 16/03/2026  
**ULR No** : TC704726100000597F **JOE No** : KE26-000552  
**Report Control No** : KER0000252386

**Customer Provided Information**

**Sample Described by Customer as** : WORKZONE AIR QUALITY MONITORING  
**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : WORKZONE AIR QUALITY MONITORING  
**Sampling Date** : 02/03/2026  
**Sampling Location** : NEAR ZINC COATING FL-5 (LDP)  
**Sampling Method** : SO-IN-MUL-TE-176

**Lab Provided Information**

**Sample Type** : WORKZONE  
**Received** : 09/03/2026  
**Test Start/End Date** : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Work Environment and Indoor Air Quality				
<b>DISCIPLINE:</b> CHEMICAL					
<b>Sulphur Dioxide (SO<sub>2</sub>)</b>	IS 5182 (Part 02) : 2006	9.5	ug/m3	5000	
<b>Nitrogen Dioxide (NO<sub>2</sub>)</b>	IS 5182 (Part 06) : 2006	21.5	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000552.021-B

**Issue Date** : 16/03/2026

**JOE No** : KE26-000552

**Report Control No** : KER0000252386

**Customer Provided Information**

**Sample Described by Customer as** : WORKZONE AIR QUALITY MONITORING

**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : WORKZONE AIR QUALITY MONITORING  
**Sampling Date** : 02/03/2026  
**Sampling Location** : NEAR ZINC COATING FL-5 (LDP)  
**Sampling Method** : SO-IN-MUL-TE-176

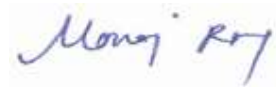
**Lab Provided Information**

**Sample Type** : WORKZONE  
**Received** : 09/03/2026  
**Test Start/End Date** : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	70.73	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	80.13	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.022-A Issue Date : 16/03/2026  
 ULR No : TC704726100000598F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 02/03/2026  
 Sampling Location : NEAR ZINC COATING FL-4 (LDP)  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Work Environment and Indoor Air Quality				
<b>DISCIPLINE:</b> CHEMICAL					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	13.6	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	27.4	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

<b>Report No</b>	: KE26-000552.022-B	<b>Issue Date</b>	: 16/03/2026
		<b>JOE No</b>	: KE26-000552
<b>Report Control No</b>	: KER0000252386		

**Customer Provided Information**

**Sample Described by Customer as** : WORKZONE AIR QUALITY MONITORING

**Customer Name** : TATA STEEL LIMITED

**Customer Address** : METALIKS DIVISION KHARAGPUR  
: SAMRAIPUR, GOKULPUR

**City** : PASCHIM MEDINIPUR

**Postal Code** : 721301

**Country** : INDIA

**Sample Description** : WORKZONE AIR QUALITY MONITORING

**Sampling Date** : 02/03/2026

**Sampling Location** : NEAR ZINC COATING FL-4 (LDP)

**Sampling Method** : SO-IN-MUL-TE-176

**Lab Provided Information**

**Sample Type** : WORKZONE

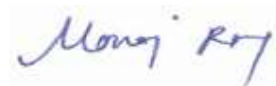
**Received** : 09/03/2026

**Test Start/End Date** : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	289.83	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1229.76	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.023-A Issue Date : 16/03/2026  
 ULR No : TC704726100000599F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 02/03/2026  
 Sampling Location : NEAR BITUMEN EXTERNAL COATING FL-4 & FL-5 (DIP-2)  
 Sampling Method : SO-IN-MUL-TE-176

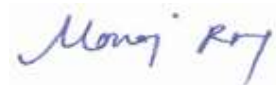
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Work Environment and Indoor Air Quality				
<b>DISCIPLINE:</b> CHEMICAL					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	8.8	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	20.0	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.023-B

Issue Date : 16/03/2026

JOE No : KE26-000552

Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 02/03/2026  
 Sampling Location : NEAR BITUMEN EXTERNAL COATING FL-4 & FL-5 (DIP-2)  
 Sampling Method : SO-IN-MUL-TE-176

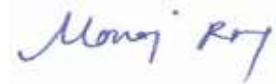
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	80.92	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	235.23	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.024-A Issue Date : 16/03/2026  
 ULR No : TC704726100000600F JOE No : KE26-000552  
 Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 06/03/2026  
 Sampling Location : CPP 4 (15MW) BOILER  
 Sampling Method : SO-IN-MUL-TE-176

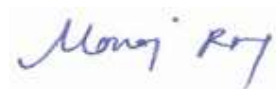
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>		Work Environment and Indoor Air Quality			
<b>DISCIPLINE: CHEMICAL</b>					
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 02) : 2006	10.2	ug/m3	5000	
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 06) : 2006	24.4	ug/m3	6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000552.024-B

Issue Date : 16/03/2026

JOE No : KE26-000552

Report Control No : KER0000252386

**Customer Provided Information**

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : WORKZONE AIR QUALITY MONITORING  
 Sampling Date : 06/03/2026  
 Sampling Location : CPP 4 (15MW) BOILER  
 Sampling Method : SO-IN-MUL-TE-176

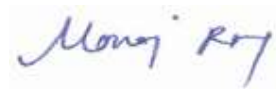
**Lab Provided Information**

Sample Type : WORKZONE  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	71.75	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	319.57	ug/m3		10000

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CONTINUOUS AMBIENT AIR QUALITY MONITORING STATION



**MONTHLY SUMMARY REPORT OF CONTINUOUS AMBIENT AIR QUALITY  
MONITORING STATION (CAAQMS)**

Month	Oct'25	Nov'25	Dec'25	Jan'26	Feb'26	Mar'26	Limit
<b>PM<sub>10</sub></b> <b>(µg/m<sup>3</sup>)</b>	23.9	32.87	57.6	134.76	145.39	135.31	<b>100</b>
<b>PM<sub>2.5</sub></b> <b>(µg/m<sup>3</sup>)</b>	10.0	13.45	29.15	70.11	65.03	47.51	<b>60</b>
<b>SO<sub>2</sub></b> <b>(µg/m<sup>3</sup>)</b>	6.37	7.33	11.93	23.45	27.15	33.44	<b>80</b>
<b>NO<sub>2</sub></b> <b>(µg/m<sup>3</sup>)</b>	10.31	10.31	14.76	22.75	26.64	26.57	<b>80</b>
<b>CO</b> <b>(mg/m<sup>3</sup>)</b>	0.62	0.66	0.82	0.63	0.57	0.56	<b>2</b>
<b>O<sub>3</sub></b> <b>(µg/m<sup>3</sup>)</b>	3.36	9.46	20.86	21.63	23.75	22.53	<b>180</b>

### Online Stack Emission (CEMS) Monthly Average Report

SL. No	Unit	Month	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26
		Location/Stack connected to	Dust/PM (mg/Nm <sup>3</sup> )	Dust/PM (mg/Nm <sup>3</sup> )	Dust/PM (mg/Nm <sup>3</sup> )	Dust/PM (mg/Nm <sup>3</sup> )	Dust/PM (mg/Nm <sup>3</sup> )	Dust/PM (mg/Nm <sup>3</sup> )
1	Iron Making	MBF Stove – I	3.45	3.44	3.49	3.41	3.33	3.28
2		MBF Stove – II	10.58	4.76	4.17	3.47	4.14	5.32
3		MBF#1- Casthouse Fume extraction System	3.34	4.64	5.90	5.27	6.89	6.37
4		CPP#2- 4 MW Boiler (BFG fired)	3.75	2.76	1.79	2.41	2.07	2.92
5		Sinter Head ESP	38.53	43.24	46.23	45.25	49.36	48.50
6		Sinter Tail ESP	18.83	25.98	14.01	11.65	33.33	28.28
7		RFP bag filter Sinter plant	5.39	12.99	10.71	7.54	8.14	6.55
8		Flux crusher stack	1.86	3.63	3.07	3.53	5.25	4.22
9		RMHS-1 Sinter storage bin	6.88	4.57	1.85	10.38	1.01	2.94
10		RMHS-2 Sinter storage bin	7.12	10.01	18.10	10.98	5.88	3.38
11		CPP#4- 15 MW ( WHRB based)	28.32	10.26	10.77	8.66	9.93	6.74
12		MBF#2- Casthouse Fume extraction System	3.78	9.22	7.70	8.65	6.18	1.76
13	Ductile Iron Pipe (Small Dia Pipe Unit)	MGT & IF (Common) Stack.	9.22	4.47	6.22	4.77	2.49	2.23
14		Zn Coating Stack FL-1	3.05	7.67	6.65	2.39	1.00	1.00
15		Barrel & Socket Grinders Stack	6.30	9.85	3.09	2.77	2.82	3.27
16		Zn Coating Stack FL-2	9.05	7.68	8.71	10.52	9.34	9.50
17		Zn Coating Stack FL-3	1.59	1.00	1.00	1.00	1.00	1.00
18		Annealing Furnace Regeneration unit	6.95	4.85	4.52	2.44	5.78	1.74
19		Annealing WHR Boiler 8TPH	3.01	1.58	2.03	2.32	4.48	2.12
20		Sand cleaning system (core shop)	4.14	4.78	4.29	4.32	4.19	4.01
21		Tri Grinding bag filter FL2	5.09	6.20	5.29	5.66	4.89	3.49
22		Tri-grinding Bag filter FL3	1.26	1.00	3.33	1.73	1.98	3.93
23	Ductile Iron Pipe (Large Dia Pipe Unit)	Induction furnace Stack.	2.12	2.29	3.24	5.40	2.54	1.86
24		Magnesium Converter	3.71	3.35	3.82	4.36	4.67	4.05
25		Zn Coating Stack FL-4	1.80	2.47	1.83	1.94	2.51	3.02
26		Tri-grinding Bag filter FL4	4.17	5.28	1.83	5.11	2.18	5.31
27		Zn Coating Stack FL-5	1.00	1.00	1.00	1.81	2.34	2.34
28		Tri-grinding Bag filter FL5	1.32	2.08	1.00	1.18	2.43	1.99
29		Annealing Furnace Air Chimney flue gas exit	2.94	5.38	4.41	1.08	1.20	1.21
30		Annealing Furnace BFG Chimney	1.36	1.11	1.46	1.20	4.57	6.15
31		Boiler 8TPH	1.00	1.00	1.00	1.00	1.00	1.00
32		Sand cleaning system (core shop)	1.00	2.86	3.21	5.53	2.64	1.27
33		Mould shop	1.69	2.13	3.56	2.39	1.00	1.25



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000555.001 **Issue Date** : 14/03/2026  
**ULR No** : TC704726100000519F **JOE No** : KE26-000555  
**Report Control No** : KER0000252327

**Customer Provided Information**

**Sample Described by Customer as** : FLUE GAS  
**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : FLUE GAS  
**Sampling Method** : SO-IN-MUL-TE-176  
**Sampling Date** : 27.02.2026; 10.30 TO 11.10 AM  
**Sampling Location** : MBF-1 CAST HOUSE FES STACK 1ST SAMPLE  
**Stack Connected to** : MBF-1 CAST HOUSE FES STACK  
**Emission Due to** : COMBUSTION OF CAST OUSE ( MBF#1) FUME  
**Height of Stack from Ground Level** : 43.6 M  
**Port Hole Available** : 02  
**Pollution Control** : BAG FILTER  
**Device**  
**Diameter of Stack** : 2 M  
**Construction** : MS  
**Material of Stack**  
**Type of Stack** : Circular  
**Height of Sampling Point from GL** : 38.5 M  
**Platform & Ladder at Stack** : Yes

**Lab Provided Information**

**Sample Type** : FLUE GAS  
**Received** : 09/03/2026  
**Test Start/End Date** : 09/03/2026 - 13/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
<b>NABL Group :</b>	<b>Atmospheric Pollution</b>	Stack emission			
<b>DISCIPLINE:</b>	<b>CHEMICAL</b>				
<b>Moisture</b>	IS 11255 Part 3:1985	2.9	%		

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000555.001  
 ULR No : TC704726100000519F  
 Report Control No : KER0000252327

Issue Date : 14/03/2026  
 JOE No : KE26-000555

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>		Stack emission			
Temperature	IS 11255 Part 3:1985	58	°C		
Barometric Pressure	IS 11255 Part 3:1985	750	mm Hg		
Velocity	IS 11255 Part 3:1985	12.06	m/s		
Flow rate	IS 11255 Part 3:1985	117611	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.9	%		
Carbon Dioxide (CO2)	USEPA METHOD 3A	<0.2	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	22.76	mg/Nm3		100

Remark : All parameters are done at site except PM

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000555.003 Issue Date : 14/03/2026  
 ULR No : TC704726100000521F JOE No : KE26-000555  
 Report Control No : KER0000252327

**Customer Provided Information**

Sample Described by Customer as : FLUE GAS  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : FLUE GAS  
 Sampling Method : SO-IN-MUL-TE-176  
 Sampling Date : 27/2/2026 ; 15.50 TO 16.30 HRS  
 Sampling Location : SINTER STORAGE BIN STACK(RMHS#1) 1ST SAMPLE  
 Stack Connected to : SINTER STORAGE BIN STACK(RMHS#1)  
 Emission Due to : PROCESS ACTIVITY  
 Height of Stack from : 40M  
 Ground Level  
 Port Hole Available : 02  
 Pollution Control : BAG FILTER  
 Device  
 Diameter of Stack : 2.3 M  
 Construction : MS  
 Material of Stack  
 Type of Stack : Circular  
 Height of Sampling : 25M  
 Point from GL  
 Platform & Ladder at : Yes  
 Stack

**Lab Provided Information**

Sample Type : FLUE GAS  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 13/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
<b>NABL Group :</b>	<b>Atmospheric Pollution</b>	Stack emission			
<b>DISCIPLINE:</b>	<b>CHEMICAL</b>				
<b>Moisture</b>	IS 11255 Part 3:1985	1.89	%		

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000555.003  
 ULR No : TC704726100000521F  
 Report Control No : KER0000252327

Issue Date : 14/03/2026  
 JOE No : KE26-000555

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
<b>NABL Group :</b>	<b>Atmospheric Pollution</b>	Stack emission			
Temperature	IS 11255 Part 3:1985	40	°C		
Barometric Pressure	IS 11255 Part 3:1985	750	mm Hg		
Velocity	IS 11255 Part 3:1985	10.65	m/s		
Flow rate	IS 11255 Part 3:1985	146839	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.8	%		
Carbon Dioxide (CO2)	USEPA METHOD 3A	<0.2	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	4.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	8.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	10.02	mg/Nm3		100

Remark : All parameters are done at site except PM

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000555.004 Issue Date : 14/03/2026  
 ULR No : TC704726100000522F JOE No : KE26-000555  
 Report Control No : KER0000252327

**Customer Provided Information**

Sample Described by Customer as : FLUE GAS  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : FLUE GAS  
 Sampling Method : SO-IN-MUL-TE-176  
 Sampling Date : 27/2/2026 ; 16.40 TO 15.20 HRS  
 Sampling Location : SINTER STORAGE BIN STACK(RHMS#2) 2ND SAMPLE  
 Stack Connected to : SINTER STORAGE BIN STACK(RHMS#2)  
 Emission Due to : PROCESS ACTIVITY  
 Height of Stack from : 40.0 M  
 Ground Level  
 Port Hole Available : 2  
 Pollution Control : BAG FILTER  
 Device  
 Diameter of Stack : 2.3 M  
 Construction : MS  
 Material of Stack  
 Type of Stack : Circular  
 Height of Sampling : 25.0 M  
 Point from GL  
 Platform & Ladder at : Yes  
 Stack

**Lab Provided Information**

Sample Type : FLUE GAS  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 13/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
<b>NABL Group :</b>	<b>Atmospheric Pollution</b>	Stack emission			
<b>DISCIPLINE:</b>	<b>CHEMICAL</b>				
<b>Moisture</b>	IS 11255 Part 3:1985	1.89	%		

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000555.004  
 ULR No : TC704726100000522F  
 Report Control No : KER0000252327

Issue Date : 14/03/2026  
 JOE No : KE26-000555

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>		Stack emission			
Temperature	IS 11255 Part 3:1985	40	°C		
Barometric Pressure	IS 11255 Part 3:1985	750	mm Hg		
Velocity	IS 11255 Part 3:1985	10.60	m/s		
Flow rate	IS 11255 Part 3:1985	146150	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.8	%		
Carbon Dioxide (CO2)	USEPA METHOD 3A	<0.2	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	4.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	9.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	11.74	mg/Nm3		100

Remark : All parameters are done at site except PM

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000555.007 **Issue Date** : 14/03/2026  
**ULR No** : TC704726100000525F **JOE No** : KE26-000555  
**Report Control No** : KER0000252327

**Customer Provided Information**

**Sample Described by Customer as** : FLUE GAS  
**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : FLUE GAS  
**Sampling Method** : SO IN MUL TE 176  
**Sampling Date** : 02/03/2026 14.30 TO 15.10HRS  
**Sampling Location** : MBF-2 CAST HOUSE FES STACK - 1ST SAMPLE  
**Stack Connected to** : MBF-2 CAST HOUSE  
**Emission Due to** : EXTRACTION OF CAST HOUSE (MBF#2) FUME  
**Height of Stack from Ground Level** : 32 M  
**Port Hole Available** : 01  
**Pollution Control Device** : BAG FILTER  
**Diameter of Stack** : 2.3M  
**Construction** : MS  
**Material of Stack** : Circular  
**Type of Stack** : Circular  
**Height of Sampling Point from GL** : 19.M  
**Platform & Ladder at Stack** : Yes

**Lab Provided Information**

**Sample Type** : FLUE GAS  
**Received** : 09/03/2026  
**Test Start/End Date** : 09/03/2026 - 13/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
<b>NABL Group :</b>	<b>Atmospheric Pollution</b>	Stack emission			
<b>DISCIPLINE:</b>	<b>CHEMICAL</b>				
<b>Moisture</b>	IS 11255 Part 3:1985	1.62	%		

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000555.007  
 ULR No : TC704726100000525F  
 Report Control No : KER0000252327

Issue Date : 14/03/2026  
 JOE No : KE26-000555

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>		Stack emission			
Temperature	IS 11255 Part 3:1985	42	°C		
Barometric Pressure	IS 11255 Part 3:1985	750	mm Hg		
Velocity	IS 11255 Part 3:1985	7.95	m/s		
Flow rate	IS 11255 Part 3:1985	109211	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.8	%		
Carbon Dioxide (CO2)	USEPA METHOD 3A	<0.2	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	4.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	26.05	mg/Nm3		100

Remark : All parameters are done at site except PM

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000555.008 Issue Date : 14/03/2026  
 ULR No : TC704726100000526F JOE No : KE26-000555  
 Report Control No : KER0000252327

**Customer Provided Information**

Sample Described by Customer as : FLUE GAS  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : FLUE GAS  
 Sampling Method : SO IN MUL TE 176  
 Sampling Date : 02/03/3036 ;15.20 TO 16.00 HRS  
 Sampling Location : MBF-2 CAST HOUSE FES STACK - 2ND SAMPLE  
 Stack Connected to : MBF-2 CAST HOUSE  
 Emission Due to : EXTRACTION OF CAST HOUSE (MBF#2) FUMES  
 Height of Stack from Ground Level : 32 M  
 Port Hole Available : 01  
 Pollution Control : BAG FILTER  
 Device :  
 Diameter of Stack : 2.3M  
 Construction : MS  
 Material of Stack :  
 Type of Stack : Circular  
 Height of Sampling Point from GL : 19M  
 Platform & Ladder at Stack : Yes

**Lab Provided Information**

Sample Type : FLUE GAS  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 13/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
<b>NABL Group :</b>	<b>Atmospheric Pollution</b>	Stack emission			
<b>DISCIPLINE:</b>	<b>CHEMICAL</b>				
<b>Moisture</b>	IS 11255 Part 3:1985	1.62	%		

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000555.008  
 ULR No : TC704726100000526F  
 Report Control No : KER0000252327

Issue Date : 14/03/2026  
 JOE No : KE26-000555

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>		Stack emission			
Temperature	IS 11255 Part 3:1985	42	°C		
Barometric Pressure	IS 11255 Part 3:1985	750	mm Hg		
Velocity	IS 11255 Part 3:1985	7.91	m/s		
Flow rate	IS 11255 Part 3:1985	108661	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.8	%		
Carbon Dioxide (CO2)	USEPA METHOD 3A	<0.2	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	4.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	24.75	mg/Nm3		100

Remark : All parameters are done at site except PM

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000571.002 Issue Date : 17/03/2026  
 ULR No : TC704726100000633F JOE No : KE26-000571  
 Report Control No : KER0000252622

**Customer Provided Information**

Sample Described by Customer as : FLUE GAS  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : FLUE GAS  
 Sampling Method : SO-IN-MUL-TE-176  
 Sampling Date : 26/02/2026 10.20 TO 11.00 AM  
 Sampling Location : HEAD ESP STACK(SINTER PLANT) -2ND SAMPLE  
 Stack Connected to : HEAD ESP STACK(SINTER PLANT) -2ND SAMPLE  
 Emission Due to : COMBUSTION OF BFG(SINTER PRODUCTION)  
 Height of Stack from : 45.0 M  
 Ground Level  
 Port Hole Available : 02  
 Pollution Control : ESP  
 Device  
 Diameter of Stack : 2.3M  
 Construction : MS  
 Material of Stack  
 Type of Stack : Circular  
 Height of Sampling : 40.0M  
 Point from GL  
 Platform & Ladder at : Yes  
 Stack

**Lab Provided Information**

Sample Type : FLUE GAS  
 Received : 10/03/2026  
 Test Start/End Date : 10/03/2026 - 17/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
DISCIPLINE:	CHEMICAL				
Moisture	IS 11255 Part 3:1985	3.03	%		

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000571.002  
 ULR No : TC704726100000633F  
 Report Control No : KER0000252622

Issue Date : 17/03/2026  
 JOE No : KE26-000571

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>		Stack emission			
Temperature	IS 11255 Part 3:1985	130	°C		
Barometric Pressure	IS 11255 Part 3:1985	750	mm Hg		
Velocity	IS 11255 Part 3:1985	18.62	m/s		
Flow rate	IS 11255 Part 3:1985	196883	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	16.6	%		
Carbon Dioxide (CO2)	USEPA METHOD 3A	3.3	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	80.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	182.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	0.5	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	25.38	mg/Nm3		100

Remark : All parameters are done at site except PM

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000571.004 **Issue Date** : 17/03/2026  
**ULR No** : TC704726100000635F **JOE No** : KE26-000571  
**Report Control No** : KER0000252622

**Customer Provided Information**

**Sample Described by Customer as** : FLUE GAS  
**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : FLUE GAS  
**Sampling Method** : SO-IN-MUL-TE-176  
**Sampling Date** : 26/02/2026 12.20 TO 13.00 PM  
**Sampling Location** : TAIL ESP STACK (SINTER PLANT) 2ND SAMPLE  
**Stack Connected to** : TAIL ESP STACK  
**Emission Due to** : DEDUSTING PROCESS  
**Height of Stack from Ground Level** : 40.0 M  
**Port Hole Available** : 4  
**Pollution Control Device** : ESP  
**Diameter of Stack** : 2.32M  
**Construction** : MS  
**Material of Stack** :  
**Type of Stack** : Circular  
**Height of Sampling Point from GL** : 36.0 M  
**Platform & Ladder at Stack** : Yes

**Lab Provided Information**

**Sample Type** : FLUE GAS  
**Received** : 10/03/2026  
**Test Start/End Date** : 10/03/2026 - 17/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
<b>NABL Group :</b>	<b>Atmospheric Pollution</b>	Stack emission			
<b>DISCIPLINE:</b>	<b>CHEMICAL</b>				
<b>Moisture</b>	IS 11255 Part 3:1985	2.36	%		

Page 1 of 2

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000571.004  
 ULR No : TC704726100000635F  
 Report Control No : KER0000252622

Issue Date : 17/03/2026  
 JOE No : KE26-000571

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>		Stack emission			
Temperature	IS 11255 Part 3:1985	98	°C		
Barometric Pressure	IS 11255 Part 3:1985	750	mm Hg		
Velocity	IS 11255 Part 3:1985	13.31	m/s		
Flow rate	IS 11255 Part 3:1985	156716	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.8	%		
Carbon Dioxide (CO2)	USEPA METHOD 3A	<0.1	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.6	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	2.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	20.50	mg/Nm3		100

Remark : All parameters are done at site except PM

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000571.006 Issue Date : 17/03/2026  
 ULR No : TC704726100000637F JOE No : KE26-000571  
 Report Control No : KER0000252622

**Customer Provided Information**

Sample Described by Customer as : FLUE GAS  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : FLUE GAS  
 Sampling Method : SO IN MUL TE 176  
 Sampling Date : 26/02/2026; 14.20 TO 15.00 PM  
 Sampling Location : FLUX BAG FILTER -2ND SAMPLE  
 Stack Connected to : FLUX BAG FILTER -2ND SAMPLE  
 Emission Due to : PROCESS ACTIVITY (LIMESTONE,DOLOMITE,PROXINITE CRUSHING)  
 Height of Stack from : 30 M  
 Ground Level  
 Port Hole Available : 01  
 Pollution Control : BAG FILTER  
 Device  
 Diameter of Stack : 1.1 M  
 Construction : MS  
 Material of Stack  
 Type of Stack : Circular  
 Height of Sampling : 17.0 M  
 Point from GL  
 Platform & Ladder at : Yes  
 Stack

**Lab Provided Information**

Sample Type : FLUE GAS  
 Received : 10/03/2026  
 Test Start/End Date : 10/03/2026 - 17/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
<b>NABL Group :</b>	<b>Atmospheric Pollution</b>	Stack emission			
<b>DISCIPLINE:</b>	<b>CHEMICAL</b>				
<b>Moisture</b>	IS 11255 Part 3:1985	1.95	%		

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000571.006  
 ULR No : TC704726100000637F  
 Report Control No : KER0000252622

Issue Date : 17/03/2026  
 JOE No : KE26-000571

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>		Stack emission			
Temperature	IS 11255 Part 3:1985	36	°C		
Barometric Pressure	IS 11255 Part 3:1985	750	mm Hg		
Velocity	IS 11255 Part 3:1985	10.98	m/s		
Flow rate	IS 11255 Part 3:1985	35053	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.8	%		
Carbon Dioxide (CO2)	USEPA METHOD 3A	<0.1	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.6	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	9.36	mg/Nm3		100

Remark : All parameters are done at site except PM

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000571.008 Issue Date : 17/03/2026  
 ULR No : TC704726100000639F JOE No : KE26-000571  
 Report Control No : KER0000252622

**Customer Provided Information**

Sample Described by Customer as : FLUE GAS  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : FLUE GAS  
 Sampling Method : SO IN MUL TE 176  
 Sampling Date : 26/02/2026 16.20 TO 17.00 PM  
 Sampling Location : RFP BAG FILTER STACK (SINTER PLANT) -2ND SAMPLE  
 Stack Connected to : RFP BAG FILTER STACK  
 Emission Due to : PROCESS ACTIVITY ( RAW MATERIAL PROCESS)  
 Height of Stack from : 30 M  
 Ground Level  
 Port Hole Available : 01  
 Pollution Control : BAG FILTER  
 Device  
 Diameter of Stack : 1.4 M  
 Construction : MS  
 Material of Stack  
 Type of Stack : Circular  
 Height of Sampling : 17.5M  
 Point from GL  
 Platform & Ladder at : Yes  
 Stack

**Lab Provided Information**

Sample Type : FLUE GAS  
 Received : 10/03/2026  
 Test Start/End Date : 10/03/2026 - 17/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
<b>NABL Group :</b>	<b>Atmospheric Pollution</b>	Stack emission			
<b>DISCIPLINE:</b>	<b>CHEMICAL</b>				
<b>Moisture</b>	IS 11255 Part 3:1985	2.04	%		

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000571.008  
 ULR No : TC704726100000639F  
 Report Control No : KER0000252622

Issue Date : 17/03/2026  
 JOE No : KE26-000571

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>		Stack emission			
Temperature	IS 11255 Part 3:1985	37	°C		
Barometric Pressure	IS 11255 Part 3:1985	750	mm Hg		
Velocity	IS 11255 Part 3:1985	11.87	m/s		
Flow rate	IS 11255 Part 3:1985	61202	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.8	%		
Carbon Dioxide (CO2)	USEPA METHOD 3A	<0.1	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.6	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	21.13	mg/Nm3		100

Remark : All parameters are done at site except PM

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000573.002 Issue Date : 17/03/2026  
 ULR No : TC704726100000626F JOE No : KE26-000573  
 Report Control No : KER0000252559

**Customer Provided Information**

Sample Described by Customer as : FLUE GAS  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : FLUE GAS  
 Sampling Method : SO-IN-MUL-TE-176  
 Sampling Date : 05/03/2026 13:40 TO 14:20HRS  
 Sampling Location : INDUCTION FURNACE STACK (DIP-2) 2ND SAMPLE  
 Stack Connected to : INDUCTION FURNACE BAG FILTER  
 Emission Due to : DEDUSTING PROCESS  
 Height of Stack from : 36M  
 Ground Level  
 Port Hole Available : 02  
 Pollution Control : BAG FILTER AND CYCLONE SEPERATOR  
 Device  
 Diameter of Stack : 1.1M  
 Construction : MS  
 Material of Stack  
 Type of Stack : Circular  
 Height of Sampling : 24M  
 Point from GL  
 Platform & Ladder at : Yes  
 Stack

**Lab Provided Information**

Sample Type : FLUE GAS  
 Received : 10/03/2026  
 Test Start/End Date : 10/03/2026 - 16/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
<b>NABL Group :</b>	<b>Atmospheric Pollution</b>	Stack emission			
<b>DISCIPLINE:</b>	<b>CHEMICAL</b>				
<b>Moisture</b>	IS 11255 Part 3:1985	1.63	%		

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000573.002  
 ULR No : TC704726100000626F  
 Report Control No : KER0000252559

Issue Date : 17/03/2026  
 JOE No : KE26-000573

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>		Stack emission			
Temperature	IS 11255 Part 3:1985	62	°C		
Barometric Pressure	IS 11255 Part 3:1985	750	mm Hg		
Velocity	IS 11255 Part 3:1985	6.91	m/s		
Flow rate	IS 11255 Part 3:1985	20431	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.6	%		
Carbon Dioxide (CO2)	USEPA METHOD 3A	<0.2	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.6	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	84.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.2	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	6.67	mg/Nm3		50

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000576.002 **Issue Date** : 12/03/2026  
**ULR No** : TC704726100000481F **JOE No** : KE26-000576  
**Report Control No** : KER0000252219

**Customer Provided Information**

**Sample Described by Customer as** : FLUE GAS  
**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : FLUE GAS  
**Sampling Method** : SO-IN-MUL-TE-176  
**Sampling Date** : 06/03/2026 12:50 to 13:20 HRS  
**Sampling Location** : ZINC COATING M/C FL -5 STACK (DIP- 2) 2ND SAMPLE  
**Stack Connected to** : ZINC COATING M/C FL -5 STACK  
**Emission Due to** : DEDUSTING PROCESS  
**Height of Stack from Ground Level** : 36 M  
**Port Hole Available** : 02  
**Pollution Control Device** : BAG FILTER AND CYCLONE SEPERATOR  
**Diameter of Stack** : 1.3M  
**Construction** : MS  
**Material of Stack** :  
**Type of Stack** : Circular  
**Height of Sampling Point from GL** : 26 M  
**Platform & Ladder at Stack** : Yes

**Lab Provided Information**

**Sample Type** : FLUE GAS  
**Received** : 10/03/2026  
**Test Start/End Date** : 10/03/2026 - 11/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
<b>NABL Group :</b>	<b>Atmospheric Pollution</b>	Stack emission			
<b>DISCIPLINE:</b>	<b>CHEMICAL</b>				
<b>Moisture</b>	IS 11255 Part 3:1985	2.03	%		

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000576.002  
 ULR No : TC704726100000481F  
 Report Control No : KER0000252219

Issue Date : 12/03/2026  
 JOE No : KE26-000576

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>		Stack emission			
Temperature	IS 11255 Part 3:1985	40	°C		
Barometric Pressure	IS 11255 Part 3:1985	750	mm Hg		
Velocity	IS 11255 Part 3:1985	6.06	m/s		
Flow rate	IS 11255 Part 3:1985	26681	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.9	%		
Carbon Dioxide (CO2)	USEPA METHOD 3A	<0.2	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	6.88	mg/Nm3		50

Remark : All parameters are done at site except PM

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**Page 2 of 2**

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000576.004 Issue Date : 12/03/2026  
 ULR No : TC704726100000483F JOE No : KE26-000576  
 Report Control No : KER0000252219

**Customer Provided Information**

Sample Described by Customer as : FLUE GAS  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : FLUE GAS  
 Sampling Method : SO-IN-MUL-TE-176  
 Sampling Date : 06/03/2026 12:10 to 12:40 HRS  
 Sampling Location : TRI GRINDING FL -5 STACK 2ND SAMPLE  
 Stack Connected to : TRI GRINDING FL -5 STACK  
 Emission Due to : DEDUSTING PROCESS  
 Height of Stack from : 36 M  
 Ground Level  
 Port Hole Available : 02  
 Pollution Control : BAG FILTER  
 Device  
 Diameter of Stack : 0.9M  
 Construction : MS  
 Material of Stack  
 Type of Stack : Circular  
 Height of Sampling : 26 M  
 Point from GL  
 Platform & Ladder at : Yes  
 Stack

**Lab Provided Information**

Sample Type : FLUE GAS  
 Received : 10/03/2026  
 Test Start/End Date : 10/03/2026 - 11/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
<b>NABL Group :</b>	<b>Atmospheric Pollution</b>	Stack emission			
<b>DISCIPLINE:</b>	<b>CHEMICAL</b>				
<b>Moisture</b>	IS 11255 Part 3:1985	2.81	%		

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000576.004  
 ULR No : TC704726100000483F  
 Report Control No : KER0000252219

Issue Date : 12/03/2026  
 JOE No : KE26-000576

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
<b>NABL Group :</b>	<b>Atmospheric Pollution</b>	Stack emission			
Temperature	IS 11255 Part 3:1985	39	°C		
Barometric Pressure	IS 11255 Part 3:1985	750	mm Hg		
Velocity	IS 11255 Part 3:1985	7.81	m/s		
Flow rate	IS 11255 Part 3:1985	16401	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.8	%		
Carbon Dioxide (CO2)	USEPA METHOD 3A	<0.2	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	5.57	mg/Nm3		50

Remark : All parameters are done at site except PM

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000551.001 Issue Date : 28/04/2026  
 ULR No : TC704726100000642F JOE No : KE26-000551  
 Report Control No : KER0000255123

**Customer Provided Information**

Sample Described by Customer as : AMBIENT AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : AMBIENT AIR QUALITY MONITORING  
 Sampling Date : 24/02/2026 TO 25/02/2026  
 Sampling Location : GOKULPUR VILLAGE  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : AMBIENT\_AIR  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 17/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS (2009)	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>	Ambient air				
Ozone (O3)	IS 5182 Part 9:1974	BDL(DL:5)	ug/m3		100
Benzene	ASTM D 3687:2007	<2.00	ug/m3		05(Annual)
<b>DISCIPLINE: CHEMICAL</b>					
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	BDL(DL:4)	ug/m3		80
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	BDL(DL:7)	ug/m3		80
Particulate Matter (PM10)	IS 5182 (Part 23) : 2006	41.4	ug/m3		100
Particulate Matter (PM2.5)	IS 5182 Part 24:2019	20.8	ug/m3		60
Lead (as Pb)	IS:5182 (Part-22):2004	0.02	ug/m3		1.0
Carbon Monoxide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH3)	IS 5182 Part-25:2018	BDL(DL:20)	ug/m3		400
Arsenic as As	SO-IN-MUL-TE-075	<2.0	ng/m³		06(Annual)
Nickel as Ni	SO-IN-MUL-TE-075	<2.0	ng/m³		20(Annual)
Benzo (a) Pyrene	USEPA 8270 C and TO - 13A	<0.20	ng/m³		01 (Annual)

Remark : BDL = Below Detection Limit , DL = Detection Limit .

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000551.001  
**ULR No** : TC704726100000642F  
**Report Control No** : KER0000255123

**Issue Date** : 28/04/2026  
**JOE No** : KE26-000551

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000551.002 Issue Date : 28/04/2026  
 ULR No : TC704726100000643F JOE No : KE26-000551  
 Report Control No : KER0000255123

**Customer Provided Information**

Sample Described by Customer as : AMBIENT AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : AMBIENT AIR QUALITY MONITORING  
 Sampling Date : 24/02/2026 TO 25/02/2026  
 Sampling Location : MAHESHPUR VILLAGE  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : AMBIENT\_AIR  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 17/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS (2009)	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b> Ambient air					
Ozone (O3)	IS 5182 Part 9:1974	BDL(DL:5)	ug/m3		100
Benzene	ASTM D 3687:2007	<2.00	ug/m3		05(Annual)
<b>DISCIPLINE: CHEMICAL</b>					
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	BDL(DL:4)	ug/m3		80
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	BDL(DL:7)	ug/m3		80
Particulate Matter (PM10)	IS 5182 (Part 23) : 2006	12.6	ug/m3		100
Particulate Matter (PM2.5)	IS 5182 Part 24:2019	8.5	ug/m3		60
Lead (as Pb)	IS:5182 (Part-22):2004	<0.01	ug/m3		1.0
Carbon Monoxide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH3)	IS 5182 Part-25:2018	BDL(DL:20)	ug/m3		400
Arsenic as As	SO-IN-MUL-TE-075	2.6	ug/m <sup>3</sup>		06(Annual)
Nickel as Ni	SO-IN-MUL-TE-075	<2.0	ng/m <sup>3</sup>		20(Annual)
Benzo (a) Pyrene	USEPA 8270 C and TO - 13A	<0.20	ng/m <sup>3</sup>		01 (Annual)

Remark : BDL = Below Detection Limit , DL = Detection Limit

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000551.002  
**ULR No** : TC704726100000643F  
**Report Control No** : KER0000255123

**Issue Date** : 28/04/2026  
**JOE No** : KE26-000551

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000551.003 Issue Date : 28/04/2026  
 ULR No : TC704726100000644F JOE No : KE26-000551  
 Report Control No : KER0000255123

**Customer Provided Information**

Sample Described by Customer as : AMBIENT AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : AMBIENT AIR QUALITY MONITORING  
 Sampling Date : 25/02/2026 TO 26/02/2026  
 Sampling Location : NEAR DUCTURA HOUSE  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : AMBIENT\_AIR  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 17/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS (2009)	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b> Ambient air					
Ozone (O3)	IS 5182 Part 9:1974	BDL(DL:5)	ug/m3		100
Benzene	ASTM D 3687:2007	<2.00	ug/m3		05(Annual)
<b>DISCIPLINE: CHEMICAL</b>					
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.6	ug/m3		80
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	9.5	ug/m3		80
Particulate Matter (PM10)	IS 5182 (Part 23) : 2006	94.1	ug/m3		100
Particulate Matter (PM2.5)	IS 5182 Part 24:2019	40.9	ug/m3		60
Lead (as Pb)	IS:5182 (Part-22):2004	0.03	ug/m3		1.0
Carbon Monoxide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH3)	IS 5182 Part-25:2018	BDL(DL:20)	ug/m3		400
Arsenic as As	SO-IN-MUL-TE-075	4.2	ug/m <sup>3</sup>		06(Annual)
Nickel as Ni	SO-IN-MUL-TE-075	3.2	ng/m <sup>3</sup>		20(Annual)
Benzo (a) Pyrene	USEPA 8270 C and TO - 13A	<0.20	ng/m <sup>3</sup>		01 (Annual)

Remark : BDL = Below Detection Limit , DL = Detection Limit

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000551.003  
**ULR No** : TC704726100000644F  
**Report Control No** : KER0000255123

**Issue Date** : 28/04/2026  
**JOE No** : KE26-000551

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**MONAJ ROY**

**Authorized Signatory**

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**Page 2 of 2**

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000551.004 Issue Date : 28/04/2026  
 ULR No : TC704726100000645F JOE No : KE26-000551  
 Report Control No : KER0000255123

**Customer Provided Information**

Sample Described by Customer as : AMBIENT AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : AMBIENT AIR QUALITY MONITORING  
 Sampling Date : 25/02/2026 TO 26/02/2026  
 Sampling Location : NEAR GUEST HOUSE  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : AMBIENT\_AIR  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 17/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS (2009)	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>					
Ambient air					
Ozone (O3)	IS 5182 Part 9:1974	BDL(DL:5)	ug/m3		100
Benzene	ASTM D 3687:2007	<2.00	ug/m3		05(Annual)
<b>DISCIPLINE: CHEMICAL</b>					
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	BDL(DL:4)	ug/m3		80
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	BDL(DL:7)	ug/m3		80
Particulate Matter (PM10)	IS 5182 (Part 23) : 2006	25.6	ug/m3		100
Particulate Matter (PM2.5)	IS 5182 Part 24:2019	16.2	ug/m3		60
Lead (as Pb)	IS:5182 (Part-22):2004	<0.01	ug/m3		1.0
Carbon Monoxide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH3)	IS 5182 Part-25:2018	BDL(DL:20)	ug/m3		400
Arsenic as As	SO-IN-MUL-TE-075	2.7	ug/m <sup>3</sup>		06(Annual)
Nickel as Ni	SO-IN-MUL-TE-075	<2.0	ng/m <sup>3</sup>		20(Annual)
Benzo (a) Pyrene	USEPA 8270 C and TO - 13A	<0.20	ng/m <sup>3</sup>		01 (Annual)

Remark : BDL = Below Detection Limit , DL = Detection Limit

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000551.004  
ULR No : TC704726100000645F  
Report Control No : KER0000255123

Issue Date : 28/04/2026  
JOE No : KE26-000551

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000551.005 Issue Date : 28/04/2026  
 ULR No : TC704726100000646F JOE No : KE26-000551  
 Report Control No : KER0000255123

**Customer Provided Information**

Sample Described by Customer as : AMBIENT AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : AMBIENT AIR QUALITY MONITORING  
 Sampling Date : 26/02/2026 TO 27/02/2026  
 Sampling Location : NEAR RAILWAY SIDING  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : AMBIENT\_AIR  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 17/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS (2009)	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b> Ambient air					
Ozone (O3)	IS 5182 Part 9:1974	BDL(DL:5)	ug/m3		100
Benzene	ASTM D 3687:2007	<2.00	ug/m3		05(Annual)
<b>DISCIPLINE: CHEMICAL</b>					
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.2	ug/m3		80
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	8.1	ug/m3		80
Particulate Matter (PM10)	IS 5182 (Part 23) : 2006	67.5	ug/m3		100
Particulate Matter (PM2.5)	IS 5182 Part 24:2019	36.4	ug/m3		60
Lead (as Pb)	IS:5182 (Part-22):2004	0.02	ug/m3		1.0
Carbon Monoxide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH3)	IS 5182 Part-25:2018	BDL(DL:20)	ug/m3		400
Arsenic as As	SO-IN-MUL-TE-075	3.4	ug/m <sup>3</sup>		06(Annual)
Nickel as Ni	SO-IN-MUL-TE-075	<2.0	ng/m <sup>3</sup>		20(Annual)
Benzo (a) Pyrene	USEPA 8270 C and TO - 13A	<0.20	ng/m <sup>3</sup>		01 (Annual)

Remark : BDL = Below Detection Limit , DL = Detection Limit

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000551.005  
ULR No : TC704726100000646F  
Report Control No : KER0000255123

Issue Date : 28/04/2026  
JOE No : KE26-000551

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000551.006 Issue Date : 28/04/2026  
 ULR No : TC704725100002672F JOE No : KE26-000551  
 Report Control No : KER0000255123

**Customer Provided Information**

Sample Described by Customer as : AMBIENT AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : AMBIENT AIR QUALITY MONITORING  
 Sampling Date : 26/02/2026 TO 27/02/2026  
 Sampling Location : NEAR CPP-3  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : AMBIENT\_AIR  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 17/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS (2009)	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b> Ambient air					
Ozone (O3)	IS 5182 Part 9:1974	BDL(DL:5)	ug/m3		100
Benzene	ASTM D 3687:2007	<2.00	ug/m3		05(Annual)
<b>DISCIPLINE: CHEMICAL</b>					
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.5	ug/m3		80
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	8.9	ug/m3		80
Particulate Matter (PM10)	IS 5182 (Part 23) : 2006	95.9	ug/m3		100
Particulate Matter (PM2.5)	IS 5182 Part 24:2019	48.1	ug/m3		60
Lead (as Pb)	IS:5182 (Part-22):2004	0.03	ug/m3		1.0
Carbon Monoxide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH3)	IS 5182 Part-25:2018	BDL(DL:20)	ug/m3		400
Arsenic as As	SO-IN-MUL-TE-075	5.1	ng/m³		06(Annual)
Nickel as Ni	SO-IN-MUL-TE-075	3.6	ng/m³		20(Annual)
Benzo (a) Pyrene	USEPA 8270 C and TO - 13A	<0.20	ng/m³		01 (Annual)

Remark : BDL = Below Detection Limit , DL = Detection Limit

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000551.006  
**ULR No** : TC704725100002672F  
**Report Control No** : KER0000255123

**Issue Date** : 28/04/2026  
**JOE No** : KE26-000551

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000551.007 Issue Date : 28/04/2026  
 ULR No : TC704725100002673F JOE No : KE26-000551  
 Report Control No : KER0000255123

**Customer Provided Information**

Sample Described by Customer as : AMBIENT AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : AMBIENT AIR QUALITY MONITORING  
 Sampling Date : 27/02/2026 TO 28/02/2026  
 Sampling Location : NEAR DIP MATERIAL GATE  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : AMBIENT\_AIR  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 17/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS (2009)	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Ambient air				
Ozone (O3)	IS 5182 Part 9:1974	BDL(DL:5)	ug/m3		100
Benzene	ASTM D 3687:2007	<2.00	ug/m3		05(Annual)
<b>DISCIPLINE:</b> CHEMICAL					
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.3	ug/m3		80
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	8.6	ug/m3		80
Particulate Matter (PM10)	IS 5182 (Part 23) : 2006	92.4	ug/m3		100
Particulate Matter (PM2.5)	IS 5182 Part 24:2019	55.7	ug/m3		60
Lead (as Pb)	IS:5182 (Part-22):2004	0.03	ug/m3		1.0
Carbon Monoxide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH3)	IS 5182 Part-25:2018	BDL(DL:20)	ug/m3		400
Arsenic as As	SO-IN-MUL-TE-075	<2.0	ng/m³		06(Annual)
Nickel as Ni	SO-IN-MUL-TE-075	<2.0	ng/m³		20(Annual)
Benzo (a) Pyrene	USEPA 8270 C and TO - 13A	<0.20	ng/m³		01 (Annual)

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000551.007  
ULR No : TC704725100002673F  
Report Control No : KER0000255123

Issue Date : 28/04/2026  
JOE No : KE26-000551

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000551.008 Issue Date : 28/04/2026  
 ULR No : TC704726100000647F JOE No : KE26-000551  
 Report Control No : KER0000255123

**Customer Provided Information**

Sample Described by Customer as : AMBIENT AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : AMBIENT AIR QUALITY MONITORING  
 Sampling Date : 05/03/2026 TO 06/03/2026  
 Sampling Location : NEAR MATERIAL GATE PI  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : AMBIENT\_AIR  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 17/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS (2009)	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Ambient air				
Ozone (O3)	IS 5182 Part 9:1974	BDL(DL:5)	ug/m3		100
Benzene	ASTM D 3687:2007	<2.00	ug/m3		05(Annual)
<b>DISCIPLINE:</b> CHEMICAL					
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	5.1	ug/m3		80
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	10.3	ug/m3		80
Particulate Matter (PM10)	IS 5182 (Part 23) : 2006	94.1	ug/m3		100
Particulate Matter (PM2.5)	IS 5182 Part 24:2019	42.7	ug/m3		60
Lead (as Pb)	IS:5182 (Part-22):2004	0.05	ug/m3		1.0
Carbon Monoxide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH3)	IS 5182 Part-25:2018	BDL(DL:20)	ug/m3		400
Arsenic as As	SO-IN-MUL-TE-075	5.5	ng/m³		06(Annual)
Nickel as Ni	SO-IN-MUL-TE-075	2.4	ng/m³		20(Annual)
Benzo (a) Pyrene	USEPA 8270 C and TO - 13A	<0.20	ng/m³		01 (Annual)

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TC-7047

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Report No : KE26-000551.008  
ULR No : TC704726100000647F  
Report Control No : KER0000255123

Issue Date : 28/04/2026  
JOE No : KE26-000551

Per pro SGS India Private Ltd

MONAJ ROY

Authorized Signatory

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000551.009 Issue Date : 28/04/2026  
 ULR No : TC704726100000648F JOE No : KE26-000551  
 Report Control No : KER0000255123

**Customer Provided Information**

Sample Described by Customer as : AMBIENT AIR QUALITY MONITORING  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : AMBIENT AIR QUALITY MONITORING  
 Sampling Date : 05/03/2026 TO 06/03/2026  
 Sampling Location : NEAR 132 KVA SUBSTATION  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : AMBIENT\_AIR  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 17/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS (2009)	
				Min	Max
<b>NABL Group : Atmospheric Pollution</b>	Ambient air				
Ozone (O3)	IS 5182 Part 9:1974	BDL(DL:5)	ug/m3		100
Benzene	ASTM D 3687:2007	<2.00	ug/m3		05(Annual)
<b>DISCIPLINE: CHEMICAL</b>					
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	BDL(DL:4)	ug/m3		80
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	BDL(DL:7)	ug/m3		80
Particulate Matter (PM10)	IS 5182 (Part 23) : 2006	49.3	ug/m3		100
Particulate Matter (PM2.5)	IS 5182 Part 24:2019	30.8	ug/m3		60
Lead (as Pb)	IS:5182 (Part-22):2004	<0.01	ug/m3		1.0
Carbon Monoxide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH3)	IS 5182 Part-25:2018	BDL(DL:20)	ug/m3		400
Arsenic as As	SO-IN-MUL-TE-075	<2.0	ng/m³		06(Annual)
Nickel as Ni	SO-IN-MUL-TE-075	<2.0	ng/m³		20(Annual)
Benzo (a) Pyrene	USEPA 8270 C and TO - 13A	<0.20	ng/m³		01 (Annual)

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TC-7047

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Report No : KE26-000551.009  
ULR No : TC704726100000648F  
Report Control No : KER0000255123

Issue Date : 28/04/2026  
JOE No : KE26-000551

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Operation of Road Sweeping Machine



Raw material transportation through trucks with Tarpaulin cover



Wind shelter fencing/Fog canon Vehicle for water sprinkling & Coal shed area



# West Bengal Pollution Control Board

## Haldia Laboratory

**Raghunathchak, P.O. Barghasipur, P.S. Bhabanipur, Haldia, Purba  
Medinipore - 721657**

<b>Station:</b> INSIDE TATA METALIKS, KHARAGPUR	<b>River Basin:</b> Kasai_Haldi	<b>CPCB Station Code:</b> 1943
<b>Sample Date:</b> 13/10/2025	<b>Sample Time:</b> 14:30	
<b>Human Activities:</b> Drinking	<b>Weather:</b> Clear	<b>Water Body:</b> Ground Water at TATA Metaliks Kharagpur
<b>Frequency Of Monitoring:</b> Halfyearly	<b>Use Based Class:</b> A	<b>Approximate Depth(Bottom/Table):</b> 300.00 m
<b>Color &amp; Intensity:</b> Clear	<b>Odour:</b> None	<b>Visible effluent discharge:</b> None

Water Quality		
Parameter	Test Result	Unit
BOD	0.85	mg/l
Conductivity	671.9	µs/cm
Fecal Coliform	Nil	MPN/100ml
Nitrate-N	BDL	mg/l
pH	7.39	Unit
Temperature(Water)	30	°C
Total Coliform	Nil	MPN/100ml
Boron	BDL	mg/l
Calcium	55.04	mg/l
Chloride	19.85	mg/l
COD	4.63	mg/l
Fluoride	0.176	mg/l
Magnesium	25.07	mg/l
Phenolphthalein Alkanity	Nil	mg/l
Phosphate-P	BDL	mg/l
Potassium	4.5	mg/l
Sodium	18.0	mg/l
Sulphate	24.07	mg/l
Total Alkalinity	333.30	mg/l
Total Dissolved Solids(TDS)	430.00	mg/l
Total Fixed Solids(TFS)	398.00	mg/l
Total Hardness as CaCo3	240.80	mg/l
Total Suspended Solids(TSS)	8.00	mg/l
Turbidity	2.13	NTU
Ammonia-N	BDL	mg/l



TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000542.001  
 ULR No : TC704726100000575F  
 Report Control No : KER0000252476

Issue Date : 16/03/2026  
 JOE No : KE26-000542

**Customer Provided Information**

Sample Described by Customer as : GROUND WATER  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : GROUND WATER  
 Sampling Date : 06/03/2026  
 Sampling Location : NEAR GUEEST HOUSE LAWN ( NEAR GATE)  
 Sample Qty. Recd. : 9 L APPROX.  
 Sampling Method : APHA 1060B,APHA 9060A

**Lab Provided Information**

Sample Type : GROUND WATER  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit	
				As per IS:10500:2012	
				Acceptable	Permissible
<b>NABL Group :</b>	<b>Water</b>	<b>Ground Water</b>			
<b>Fluoride (as F)</b>	IS 3025 Part 60 (C) Electrochemical probe method): 2023	0.12	mg/L	1.0	1.5
<b>Chloride as Cl</b>	IS 3025 (Part 32) : 2019	22.3	mg/L	250	1000
<b>Odour</b>	IS 3025 (Part 05) : 2018	Agreeable	–	Agreeabl e	Agreeable
<b>Taste</b>	IS 3025 (Part 08) : 2023	Agreeable	–	Agreeabl e	Agreeable
<b>DISCIPLINE:</b>	<b>BIOLOGICAL</b>				
<b>Coliform</b>	IS 15185 : 2016	Absent	Per 100 ml	Absent	
<b>DISCIPLINE:</b>	<b>CHEMICAL</b>				
<b>Colour</b>	IS 3025 (Part 04) : 2021	5	H.U	5	15
<b>Turbidity</b>	IS 3025 (Part 10) : 2023	1.25	NTU	1	5
<b>Total dissolved solids</b>	IS 3025 (Part 16) : 2023	402.0	mg/L	500	2000
<b>pH at 25 °C</b>	IS 3025 (Part 11) : 2022	7.43	–	6.5-8.5	No relaxation

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TC-7047

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Report No : KE26-000542.001  
 ULR No : TC704726100000575F  
 Report Control No : KER0000252476

Issue Date : 16/03/2026  
 JOE No : KE26-000542

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit	
				As per IS:10500:2012	
				Acceptable	Permissible
<b>NABL Group : Water</b>		<b>Ground Water</b>			
<i>Done at site</i>					
Nitrate as NO3	IS 3025 (Part 34) : 2019	0.11	mg/L	45	No relaxation
Sulphate as SO4	IS 3025 (Part 24) : 2022	36.7	mg/L	200	400
Total Alkalinity as CaCO3	IS 3025 (Part 23) : 2023	332.8	mg/L	200	600
Calcium as Ca	IS 3025 (Part 40) : 2023	62.5	mg/L	75	200
Magnesium as Mg	IS 3025 (Part 46) : 2023	16.5	mg/L	30	100
Residual Free Chlorine	IS 3025 (Part 26) : 2021	<0.1	mg/L	0.20	1.0
<i>Done at site</i>					
Phenolic compounds as C6H5OH	IS 3025 (Part 43) : 2022	BDL(DL:0.001)	mg/L	0.001	0.002
Cyanide as CN	IS 3025 (Part 27) : 2021	BDL(DL:0.02)	mg/L	0.05	No relaxation
Sulphide as H2S	IS 3025 (Part 29) : 2022	BDL(DL:0.05)	mg/L	0.05	No relaxation
Ammonia(as total ammonia-N)	IS 3025 (Part 34) : 2019	BDL(DL:0.10)	mg/L	0.5	No relaxation
Total Hardness as CaCO3	IS 3025 (Part 21) : 2019	224.0	mg/L	200	600
<b>Metals</b>					
Arsenic as As	APHA 24 th EDN :3125 B	<1.00	µg/L	10	No relaxation.
Cadmium as Cd	APHA 24 th EDN :3125 B	<1.00	µg/L	3	No relaxation
Total chromium as Cr	APHA 24 th EDN :3125 B	14.27	µg/L	50	No relaxation
Copper as Cu	APHA 24 th EDN :3125 B	<5.00	µg/L	50	1500
Lead as Pb	APHA 24 th EDN :3125 B	<5.00	µg/L	10	No relaxation
Manganese as Mn	APHA 24 th EDN :3125 B	256.62	µg/L	100	300
Nickel as Ni	APHA 24 th EDN :3125 B	5.32	µg/L	20	No relaxation
Selenium as Se	APHA 24 th EDN :3125 B	<5.00	µg/L	10	No relaxation
Barium as Ba	APHA 24 th EDN :3125 B	82.51	µg/L	700	No relaxation
Iron (as Fe)	APHA 24 th EDN :3125 B	97.106	µg/L	1000	No relaxation
Boron (as B)	APHA 24 th EDN :3125 B	<10.00	µg/L	500	2400
Zinc (as Zn)	APHA 24 th EDN :3125 B	73.25	µg/L	5000	15000
Aluminium (as Al)	APHA 24 th EDN :3125 B	18.27	µg/L	30	200
Molybdenum as Mo	APHA 24 th EDN :3125 B	<5.00	µg/L	70	No relaxation
Total Mercury as Hg	USEPA 6020A	<0.50	µg/L	1.0	No relaxation

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carrying out  
entitled to charge  
the services  
1500001



Test Report



TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000542.001

Issue Date : 16/03/2026

ULR No : TC704726100000575F

JOE No : KE26-000542

Report Control No : KER0000252476

Remark : pH,RFC Analysed at site

Per pro SGS India Private Ltd

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SOUMI DATTA

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000542.002 Issue Date : 16/03/2026  
 ULR No : TC704726100000576F JOE No : KE26-000542  
 Report Control No : KER0000252476

**Customer Provided Information**

Sample Described by Customer as : GROUND WATER  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : GROUND WATER  
 Sampling Date : 06/03/2026  
 Sampling Location : BACK SIDE OF CENTRAL CANTEEN  
 Sample Qty. Recd. : 9 L APPROX.  
 Sampling Method : APHA 1060B, APHA 9060A

**Lab Provided Information**

Sample Type : GROUND WATER  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit	
				As per IS:10500:2012	
				Acceptable	Permissible
<b>NABL Group : Water</b>		Ground Water			
Fluoride (as F)	IS 3025 Part 60 (C Electrochemical probe method): 2023	0.13	mg/L	1.0	1.5
Chloride as Cl	IS 3025 (Part 32) : 2019	24.1	mg/L	250	1000
Odour	IS 3025 (Part 05) : 2018	Agreeable	-	Agreeable	Agreeable
Taste	IS 3025 (Part 08) : 2023	Agreeable	-	Agreeable	Agreeable
<b>DISCIPLINE: BIOLOGICAL</b>					
Colliform	IS 15185 : 2016	Absent	Per 100 ml		Absent
<b>DISCIPLINE: CHEMICAL</b>					
Colour	IS 3025 (Part 04) : 2021	5	H.U	5	15
Turbidity	IS 3025 (Part 10) : 2023	1.85	NTU	1	5
Total dissolved solids	IS 3025 (Part 16) : 2023	411.8	mg/L	500	2000
pH at 25 °C	IS 3025 (Part 11) : 2022	7.48	-	6.5-8.5	No relaxation

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# Test Report



TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000542.002  
 ULR No : TC704726100000576F  
 Report Control No : KER0000252476

Issue Date : 16/03/2026  
 JOE No : KE26-000542

## NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit	
				As per IS:10500:2012	
				Acceptable	Permissible
<b>NABL Group : Water</b>		<b>Ground Water</b>			
<i>Done at site</i>					
Nitrate as NO3	IS 3025 (Part 34) : 2019	0.31	mg/L	45	No relaxation
Sulphate as SO4	IS 3025 (Part 24) : 2022	38.3	mg/L	200	400
Total Alkalinity as CaCO3	IS 3025 (Part 23) : 2023	339.3	mg/L	200	600
Calcium as Ca	IS 3025 (Part 40) : 2023	67.3	mg/L	75	200
Magnesium as Mg	IS 3025 (Part 46) : 2023	18.5	mg/L	30	100
Residual Free Chlorine	IS 3025 (Part 26) : 2021	<0.1	mg/L	0.20	1.0
<i>Done at site</i>					
Phenolic compounds as C6H5OH	IS 3025 (Part 43) : 2022	BDL(DL:0.001)	mg/L	0.001	0.002
Cyanide as CN	IS 3025 (Part 27) : 2021	BDL(DL:0.02)	mg/L	0.05	No relaxation
Sulphide as H2S	IS 3025 (Part 29) : 2022	BDL(DL:0.05)	mg/L	0.05	No relaxation
Ammonia(as total ammonia-N)	IS 3025 (Part 34) : 2019	BDL(DL:0.10)	mg/L	0.5	No relaxation
Total Hardness as CaCO3	IS 3025 (Part 21) : 2019	244.0	mg/L	200	600
<b>Metals</b>					
Arsenic as As	APHA 24 th EDN :3125 B	<1.00	µg/L	10	No relaxation.
Cadmium as Cd	APHA 24 th EDN :3125 B	<1.00	µg/L	3	No relaxation
Total chromium as Cr	APHA 24 th EDN :3125 B	16.01	µg/L	50	No relaxation
Copper as Cu	APHA 24 th EDN :3125 B	<5.00	µg/L	50	1500
Lead as Pb	APHA 24 th EDN :3125 B	<5.00	µg/L	10	No relaxation
Manganese as Mn	APHA 24 th EDN :3125 B	154.82	µg/L	100	300
Nickel as Ni	APHA 24 th EDN :3125 B	5.68	µg/L	20	No relaxation
Selenium as Se	APHA 24 th EDN :3125 B	<5.00	µg/L	10	No relaxation
Barium as Ba	APHA 24 th EDN :3125 B	167.16	µg/L	700	No relaxation
Iron (as Fe )	APHA 24 th EDN :3125 B	119.782	µg/L	1000	No relaxation
Boron (as B )	APHA 24 th EDN :3125 B	<10.00	µg/L	500	2400
Zinc (as Zn )	APHA 24 th EDN :3125 B	<5.00	µg/L	5000	15000
Aluminium (as Al )	APHA 24 th EDN :3125 B	38.20	µg/L	30	200
Molybdenum as Mo	APHA 24 th EDN :3125 B	<5.00	µg/L	70	No relaxation
Total Mercury as Hg	USEPA 6020A	0.53	µg/L	1.0	No relaxation

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000542.002  
ULR No : TC704726100000576F  
Report Control No : KER0000252476

Issue Date : 16/03/2026  
JOE No : KE26-000542

Remark : pH,RFC Analysed at site

Per pro SGS India Private Ltd

SOUMI DATTA

Authorized Signatory

Per pro SGS India Private Ltd

MONAJ ROY

Authorized Signatory

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000541.001-A Issue Date : 18/03/2026  
 ULR No : TC704726100000566F JOE No : KE26-000541  
 Report Control No : KER0000252660

**Customer Provided Information**

Sample Described by Customer as : EFFLUENT  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : EFFLUENT  
 Sampling Date : 06/03/2026  
 Sampling Location : CPP-3 RESERVOIR ETP 1100KLD TREATED WATER  
 Sample Qty. Recd. : 4.5L APPROX.  
 Sampling Method : APHA 1060B

**Lab Provided Information**

Sample Type : EFFLUENT  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit	
				CPCB DIS. INLAND SURFACE WATER Min	Max
<b>NABL Group : Pollution &amp; Environment</b>					
Waste Water (Effluents/Sewage)					
BOD at 27 °C for 3 days	IS 3025 (Part 44) : 2023	16.5	mg/L	30	
Ammonical Nitrogen as N	APHA 24th EDN 4500 B&C	1.10	mg/L	50	
Total Suspended Solids	APHA 24th EDN 2540 D	23.00	mg/L	100	
<b>DISCIPLINE: CHEMICAL</b>					
pH	APHA 24th EDN 4500 B	8.52	--	5.5-9.0	
<i>Done at site</i>					
Oil & Grease	APHA 24TH EDN 5520 B	4.2	mg/L	10	
COD	APHA 24th EDN: 5220 B	50.5	mg/L	250	
Cyanide as CN	APHA 24th EDN 4500 C& E/ F	BDL(DL:0.02)	mg/L	0.20	

Remark : pH Analysed at site

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

<b>Report No</b>	: KE26-000541.001-B	<b>Issue Date</b>	: 18/03/2026
		<b>JOE No</b>	: KE26-000541
<b>Report Control No</b>	: KER0000252660		

**Customer Provided Information**

**Sample Described by Customer as** : EFFLUENT

**Customer Name** : TATA STEEL LIMITED

**Customer Address** : METALIKS DIVISION KHARAGPUR  
: SAMRAIPUR, GOKULPUR

**City** : PASCHIM MEDINIPUR

**Postal Code** : 721301

**Country** : INDIA

**Sample Description** : EFFLUENT

**Sampling Date** : 06/03/2026

**Sampling Location** : CPP-3 RESERVOIR ETP 1100KLD TREATED WATER

**Sample Qty. Recd.** : 4.5L APPROX.

**Sampling Method** : APHA 1060B

**Lab Provided Information**

**Sample Type** : EFFLUENT

**Received** : 09/03/2026

**Test Start/End Date** : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit	
				CPCB DIS. INLAND SURFACE WATER Min	Max
Phenols as C6H5OH	APHA 24th EDN 5530 D	BDL(DL:0.05)	mg/L		

**Remark :** pH Analysed at site

**Per pro SGS India Private Ltd**



**MONAJ ROY**

**Authorized Signatory**

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000541.004-A Issue Date : 18/03/2026  
 ULR No : TC704726100000569F JOE No : KE26-000541  
 Report Control No : KER0000252660

**Customer Provided Information**

Sample Described by Customer as : EFFLUENT  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : EFFLUENT  
 Sampling Date : 06/03/2026  
 Sampling Location : ETP OUTLET (DIP)  
 Sample Qty. Recd. : 4.5L APPROX.  
 Sampling Method : APHA 1060B

**Lab Provided Information**

Sample Type : EFFLUENT  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit	
				CPCB DIS. INLAND SURFACE WATER Min	Max
<b>NABL Group : Pollution &amp; Environment</b>					
Waste Water (Effluents/Sewage)					
BOD at 27 °C for 3 days	IS 3025 (Part 44) : 2023	6.1	mg/L	30	
Ammonical Nitrogen as N	APHA 24th EDN 4500 B&C	0.70	mg/L	50	
Total Suspended Solids	APHA 24th EDN 2540 D	17.50	mg/L	100	
<b>DISCIPLINE: CHEMICAL</b>					
pH	APHA 24th EDN 4500 B	5.80	--	5.5-9.0	
<i>Done at site</i>					
Oil & Grease	APHA 24TH EDN 5520 B	2.9	mg/L	10	
COD	APHA 24th EDN: 5220 B	20.2	mg/L	250	
Cyanide as CN	APHA 24th EDN 4500 C& E/ F	BDL(DL:0.02)	mg/L	0.20	

Remark : pH Analysed at site

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000541.006-A Issue Date : 18/03/2026  
 ULR No : TC704726100000571F JOE No : KE26-000541  
 Report Control No : KER0000252660

**Customer Provided Information**

Sample Described by Customer as : EFFLUENT  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : EFFLUENT  
 Sampling Date : 06/03/2026  
 Sampling Location : ETP OUTLET 450 KLD TREATED WATER (PI)  
 Sampling Method : APHA 1060B  
 Sample Qty. Recd. : 4.5L APPROX.

**Lab Provided Information**

Sample Type : EFFLUENT  
 Received : 09/03/2026  
 Test Start/End Date : 09/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit	
				CPCB DIS. INLAND SURFACE WATER Min	Max
<b>NABL Group : Pollution &amp; Environment</b>					
Waste Water (Effluents/Sewage)					
BOD at 27 °C for 3 days	IS 3025 (Part 44) : 2023	<2.0	mg/L		30
Ammonical Nitrogen as N	APHA 24th EDN 4500 B&C	0.70	mg/L		50
Total Suspended Solids	APHA 24th EDN 2540 D	<2.00	mg/L		100
<b>DISCIPLINE: CHEMICAL</b>					
pH	APHA 24th EDN 4500 B	7.42	--		5.5-9.0
<i>Done at site</i>					
Oil & Grease	APHA 24TH EDN 5520 B	2.8	mg/L		10
COD	APHA 24th EDN: 5220 B	10.1	mg/L		250
Cyanide as CN	APHA 24th EDN 4500 C& E/ F	BDL(DL:0.02)	mg/L		0.20

Remark : pH Analysed at site

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000541.006-B **Issue Date** : 18/03/2026  
**JOE No** : KE26-000541  
**Report Control No** : KER0000252660

**Customer Provided Information**

**Sample Described by Customer as** : EFFLUENT  
**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : EFFLUENT  
**Sampling Date** : 06/03/2026  
**Sampling Location** : ETP OUTLET 450 KLD TREATED WATER (PI)  
**Sampling Method** : APHA 1060B  
**Sample Qty. Recd.** : 4.5L APPROX.

**Lab Provided Information**

**Sample Type** : EFFLUENT  
**Received** : 09/03/2026  
**Test Start/End Date** : 09/03/2026 - 14/03/2026

**Non-Accredited tests**

Analysis	Method	Result	Unit	Requirement/Limit	
				CPCB DIS. INLAND SURFACE WATER Min	Max
Phenols as C6H5OH	APHA 24th EDN 5530 D	BDL(DL:0.05)	mg/L		

**Remark** : pH Analysed at site

**Per pro SGS India Private Ltd**



**MONAJ ROY**

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000575.001 Issue Date : 13/03/2026  
 ULR No : TC704726100000512F JOE No : KE26-000575  
 Report Control No : KER0000252318

**Customer Provided Information**

Sample Described by Customer as : AMBIENT NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : AMBIENT NOISE  
 Sampling Date : 25/02/2026  
 Sampling Location : NEAR DUCTURA HOUSE  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : AMBIENT NOISE  
 Received : 10/03/2026  
 Test Start/End Date : 10/03/2026 - 13/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)				
<b>DISCIPLINE:</b> CHEMICAL					
Noise (Day Time)	SO-IN-MUL-TE-049	66.40	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	45.00	dB(A) Leq		70

Remark : ANALYSED AT SITE.

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000575.002 Issue Date : 13/03/2026  
 ULR No : TC704726100000513F JOE No : KE26-000575  
 Report Control No : KER0000252318

**Customer Provided Information**

Sample Described by Customer as : AMBIENT NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : AMBIENT NOISE  
 Sampling Date : 25/02/2026  
 Sampling Location : NEAR GUEST HOUSE  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : AMBIENT NOISE  
 Received : 10/03/2026  
 Test Start/End Date : 10/03/2026 - 13/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)				
<b>DISCIPLINE:</b> CHEMICAL					
Noise (Day Time)	SO-IN-MUL-TE-049	65.10	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	42.70	dB(A) Leq		70

Remark : ANALYSED AT SITE.

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000575.003 Issue Date : 13/03/2026  
 ULR No : TC704726100000514F JOE No : KE26-000575  
 Report Control No : KER0000252318

**Customer Provided Information**

Sample Described by Customer as : AMBIENT NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : AMBIENT NOISE  
 Sampling Date : 26/02/2026  
 Sampling Location : NEAR RAILWAY SIDING  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : AMBIENT NOISE  
 Received : 10/03/2026  
 Test Start/End Date : 10/03/2026 - 13/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)				
<b>DISCIPLINE:</b> CHEMICAL					
Noise (Day Time)	SO-IN-MUL-TE-049	67.80	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	48.60	dB(A) Leq		70

Remark : ANALYSED AT SITE.

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000575.004 Issue Date : 13/03/2026  
 ULR No : TC704726100000515F JOE No : KE26-000575  
 Report Control No : KER0000252318

**Customer Provided Information**

Sample Described by Customer as : AMBIENT NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : AMBIENT NOISE  
 Sampling Date : 26/02/2026  
 Sampling Location : NEAR CPP-3  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : AMBIENT NOISE  
 Received : 10/03/2026  
 Test Start/End Date : 10/03/2026 - 13/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)				
<b>DISCIPLINE:</b> CHEMICAL					
Noise (Day Time)	SO-IN-MUL-TE-049	64.40	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	48.60	dB(A) Leq		70

Remark : ANALYSED AT SITE.

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000575.005 Issue Date : 13/03/2026  
 ULR No : TC704726100000516F JOE No : KE26-000575  
 Report Control No : KER0000252318

**Customer Provided Information**

Sample Described by Customer as : AMBIENT NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : AMBIENT NOISE  
 Sampling Date : 27/02/2026  
 Sampling Location : NEAR DIP MATERIAL GATE  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : AMBIENT NOISE  
 Received : 10/03/2026  
 Test Start/End Date : 10/03/2026 - 13/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)				
<b>DISCIPLINE:</b> CHEMICAL					
Noise (Day Time)	SO-IN-MUL-TE-049	67.40	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	48.50	dB(A) Leq		70

Remark : ANALYSED AT SITE.

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000575.006 Issue Date : 13/03/2026  
 ULR No : TC704726100000517F JOE No : KE26-000575  
 Report Control No : KER0000252318

**Customer Provided Information**

Sample Described by Customer as : AMBIENT NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : AMBIENT NOISE  
 Sampling Method : SO-IN-MUL-TE-176  
 Sampling Date : 05/03/2026  
 Sampling Location : NEAR MATERIAL GATE PI

**Lab Provided Information**

Sample Type : AMBIENT NOISE  
 Received : 10/03/2026  
 Test Start/End Date : 10/03/2026 - 13/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)				
<b>DISCIPLINE:</b> CHEMICAL					
Noise (Day Time)	SO-IN-MUL-TE-049	75.80	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	46.90	dB(A) Leq		70

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000575.007 Issue Date : 13/03/2026  
 ULR No : TC704726100000518F JOE No : KE26-000575  
 Report Control No : KER0000252318

**Customer Provided Information**

Sample Described by Customer as : AMBIENT NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : AMBIENT NOISE  
 Sampling Location : NEAR 123 KVA SUBSTATION  
 Sampling Method : SO-IN-MUL-TE-176  
 Sampling Date : 05/03/2026

**Lab Provided Information**

Sample Type : AMBIENT NOISE  
 Received : 10/03/2026  
 Test Start/End Date : 10/03/2026 - 13/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)				
<b>DISCIPLINE:</b> CHEMICAL					
Noise (Day Time)	SO-IN-MUL-TE-049	60.70	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	40.20	dB(A) Leq		70

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000574.001 Issue Date : 13/03/2026  
 ULR No : TC704726100000510F JOE No : KE26-000574  
 Report Control No : KER0000252288

**Customer Provided Information**

Sample Described by Customer as : AMBIENT NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : AMBIENT NOISE  
 Sampling Date : 24/02/2026 TO 25/02/2026  
 Sampling Location : GOKULPUR VILLAGE  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : NOISE MONITORING  
 Received : 10/03/2026  
 Test Start/End Date : 10/03/2026 - 13/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit CPCB RESIDENTIAL AREA	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)				
<b>DISCIPLINE:</b> CHEMICAL					
Noise (Day Time)	SO-IN-MUL-TE-049	52.8	dB(A)		55
Noise (Night Time)	SO-IN-MUL-TE-049	41.6	dB(A)		45

Remark : ANALYSED AT SITE

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000574.002 Issue Date : 13/03/2026  
 ULR No : TC704726100000511F JOE No : KE26-000574  
 Report Control No : KER0000252288

**Customer Provided Information**

Sample Described by Customer as : AMBIENT NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : AMBIENT NOISE  
 Sampling Date : 24/02/2026 TO 25/02/2026  
 Sampling Location : MAHESHPUR VILLAGE  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : NOISE MONITORING  
 Received : 10/03/2026  
 Test Start/End Date : 10/03/2026 - 13/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit CPCB RESIDENTIAL AREA	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)				
<b>DISCIPLINE:</b> CHEMICAL					
Noise (Day Time)	SO-IN-MUL-TE-049	51.0	dB(A)		55
Noise (Night Time)	SO-IN-MUL-TE-049	36.0	dB(A)		45

Remark : ANALYSED AT SITE

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.001 Issue Date : 14/03/2026  
 ULR No : TC704726100000527F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Date : 28/2/2026  
 Sampling Location : NEAR CCM AREA (DIP-1)  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	75.4	dB(A) Leq	90	

Remark : ANALYSED AT SITE

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.002 Issue Date : 14/03/2026  
 ULR No : TC704726100000528F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Date : 28/2/2026  
 Sampling Location : NEAR CORE SHOP DIP 1  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	80.4	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000579.003 **Issue Date** : 14/03/2026  
**ULR No** : TC704726100000529F **JOE No** : KE26-000579  
**Report Control No** : KER0000252358

**Customer Provided Information**

**Sample Described by Customer as** : SOURCE NOISE  
**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : SOURCE NOISE  
**Sampling Date** : 28/2/2026  
**Sampling Location** : NEAR ZINC COATING AREA FL-1  
**Sampling Method** : SO-IN-MUL-TE-176

**Lab Provided Information**

**Sample Type** : SOURCE NOISE  
**Received** : 11/03/2026  
**Test Start/End Date** : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	75.5	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.004 Issue Date : 14/03/2026  
 ULR No : TC704726100000530F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Date : 28/2/2026  
 Sampling Location : NEAR INDUCTION FURNACE AREA DIP 1  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	78.1	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000579.005 **Issue Date** : 14/03/2026  
**ULR No** : TC704726100000531F **JOE No** : KE26-000579  
**Report Control No** : KER0000252358

**Customer Provided Information**

**Sample Described by Customer as** : SOURCE NOISE  
**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : SOURCE NOISE  
**Sampling Date** : 28/2/2026  
**Sampling Location** : NEAR EXTERNAL COATING AREA FL-1  
**Sampling Method** : SO-IN-MUL-TE-176

**Lab Provided Information**

**Sample Type** : SOURCE NOISE  
**Received** : 11/03/2026  
**Test Start/End Date** : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	70.2	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000579.006 **Issue Date** : 14/03/2026  
**ULR No** : TC704726100000532F **JOE No** : KE26-000579  
**Report Control No** : KER0000252358

**Customer Provided Information**

**Sample Described by Customer as** : SOURCE NOISE  
**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : SOURCE NOISE  
**Sampling Date** : 28/2/2026  
**Sampling Location** : NEAR ZINC COATING AREA FL 3  
**Sampling Method** : SO-IN-MUL-TE-176

**Lab Provided Information**

**Sample Type** : SOURCE NOISE  
**Received** : 11/03/2026  
**Test Start/End Date** : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	75.2	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000579.007 **Issue Date** : 14/03/2026  
**ULR No** : TC704726100000533F **JOE No** : KE26-000579  
**Report Control No** : KER0000252358

**Customer Provided Information**

**Sample Described by Customer as** : SOURCE NOISE  
**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : SOURCE NOISE  
**Sampling Date** : 28/2/2026  
**Sampling Location** : NEAR EXTERNAL COATING FL 3  
**Sampling Method** : SO-IN-MUL-TE-176

**Lab Provided Information**

**Sample Type** : SOURCE NOISE  
**Received** : 11/03/2026  
**Test Start/End Date** : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	69.3	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000579.008 **Issue Date** : 14/03/2026  
**ULR No** : TC704726100000534F **JOE No** : KE26-000579  
**Report Control No** : KER0000252358

**Customer Provided Information**

**Sample Described by Customer as** : SOURCE NOISE  
**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : SOURCE NOISE  
**Sampling Date** : 28/2/2026  
**Sampling Location** : NEAR CCM AREA (DIP-2)  
**Sampling Method** : SO-IN-MUL-TE-176

**Lab Provided Information**

**Sample Type** : SOURCE NOISE  
**Received** : 11/03/2026  
**Test Start/End Date** : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	81.6	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.009 Issue Date : 14/03/2026  
 ULR No : TC704726100000535F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Date : 28/2/2026  
 Sampling Location : NEAR CORE SHOP (DIP-2)  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	79.4	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.010 Issue Date : 14/03/2026  
 ULR No : TC704726100000536F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Date : 28/2/2026  
 Sampling Location : NEAR SCRAP YARD  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	71.3	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.011 Issue Date : 14/03/2026  
 ULR No : TC704726100000537F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Date : 28/2/2026  
 Sampling Location : NEAR MBF-1 BLOWER HOUSE  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	84.2	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.012 Issue Date : 14/03/2026  
 ULR No : TC704726100000538F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Date : 28/2/2026  
 Sampling Location : NEAR CAST HOUSE 1  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	77	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000579.013 **Issue Date** : 14/03/2026  
**ULR No** : TC704726100000539F **JOE No** : KE26-000579  
**Report Control No** : KER0000252358

**Customer Provided Information**

**Sample Described by Customer as** : SOURCE NOISE  
**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : SOURCE NOISE  
**Sampling Date** : 28/2/2026  
**Sampling Location** : NEAR SPCM AREA  
**Sampling Method** : SO-IN-MUL-TE-176

**Lab Provided Information**

**Sample Type** : SOURCE NOISE  
**Received** : 11/03/2026  
**Test Start/End Date** : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	72.4	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.014 Issue Date : 14/03/2026  
 ULR No : TC704726100000540F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Date : 28/2/2026  
 Sampling Location : NEAR CAST HOUSE 2  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	76.5	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.015 Issue Date : 14/03/2026  
 ULR No : TC704726100000541F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Date : 28/2/2026  
 Sampling Location : NEAR MBF-2 BLOWER HOUSE  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	83	dB(A) Leq		90

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.016 Issue Date : 14/03/2026  
 ULR No : TC704726100000542F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Date : 28/2/2026  
 Sampling Location : NEAR RMHS-1  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	82.3	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.017 Issue Date : 14/03/2026  
 ULR No : TC704726100000543F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Date : 28/2/2026  
 Sampling Location : NEAR RMHS 2  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	84.1	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.018 Issue Date : 14/03/2026  
 ULR No : TC704726100000544F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Date : 28/2/2026  
 Sampling Location : NEAR CPP-3 TURBINE HALL  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	72.8	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.019 Issue Date : 14/03/2026  
 ULR No : TC704726100000545F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Date : 28/2/2026  
 Sampling Location : NEAR CPP-4 TURBINE HALL  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	81.5	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.020 Issue Date : 14/03/2026  
 ULR No : TC704726100000546F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Date : 28/2/2026  
 Sampling Location : NEAR CCP-2 TURBINE HALL  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	82.4	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000579.021 **Issue Date** : 14/03/2026  
**ULR No** : TC704726100000547F **JOE No** : KE26-000579  
**Report Control No** : KER0000252358

**Customer Provided Information**

**Sample Described by Customer as** : SOURCE NOISE  
**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sampling Location** : COMPRESSOR HOUSE MBF 1  
**Sampling Date** : 28/2/2026  
**Sampling Method** : SO-IN-MUL-TE-176  
**Sample Description** : SOURCE NOISE

**Lab Provided Information**

**Sample Type** : SOURCE NOISE  
**Received** : 11/03/2026  
**Test Start/End Date** : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	74.1	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000579.022 **Issue Date** : 14/03/2026  
**ULR No** : TC704726100000548F **JOE No** : KE26-000579  
**Report Control No** : KER0000252358

**Customer Provided Information**

**Sample Described by Customer as** : SOURCE NOISE  
**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sampling Location** : COMPRESSOR HOUSE MBF 2  
**Sampling Date** : 28/2/2026  
**Sampling Method** : SO-IN-MUL-TE-176  
**Sample Description** : SOURCE NOISE

**Lab Provided Information**

**Sample Type** : SOURCE NOISE  
**Received** : 11/03/2026  
**Test Start/End Date** : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	81.3	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.023 Issue Date : 14/03/2026  
 ULR No : TC704726100000549F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Location : NEAR COMPRESSOR AREA (DIP 1)  
 Sampling Date : 28/2/2026  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	76.4	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.024 Issue Date : 14/03/2026  
 ULR No : TC704726100000550F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Location : NEAR MOULD SHOP PEENING STATION AREA (DIP 1)  
 Sampling Date : 28/2/2026  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	86.4	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000579.025 **Issue Date** : 14/03/2026  
**ULR No** : TC704726100000551F **JOE No** : KE26-000579  
**Report Control No** : KER0000252358

**Customer Provided Information**

**Sample Described by Customer as** : SOURCE NOISE  
**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : SOURCE NOISE  
**Sampling Location** : NEAR MOULD SHOP GRINDING STATION AREA (DIP 1)  
**Sampling Date** : 28/2/2026  
**Sampling Method** : SO-IN-MUL-TE-176

**Lab Provided Information**

**Sample Type** : SOURCE NOISE  
**Received** : 11/03/2026  
**Test Start/End Date** : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	86.5	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.026 Issue Date : 14/03/2026  
 ULR No : TC704726100000552F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sampling Location : NEAR ZINC COATING FL-4 (DIP 2)  
 Sampling Date : 28/2/2026  
 Sampling Method : SO-IN-MUL-TE-176  
 Sample Description : SOURCE NOISE

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	70.1	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.027 Issue Date : 14/03/2026  
 ULR No : TC704726100000553F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Location : NEAR EXTERNAL COATING AREA FL-4 (DIP 2)  
 Sampling Date : 28/2/2026  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	70	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.028 Issue Date : 14/03/2026  
 ULR No : TC704726100000554F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Location : NEAR ZINC COATING FL 5 (DIP 2)  
 Sampling Date : 06/03/2026  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	82.2	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.029 Issue Date : 14/03/2026  
 ULR No : TC704726100000555F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sample Description : SOURCE NOISE  
 Sampling Location : NEAR EXTERNAL COATING AREA FL-5  
 Sampling Date : 06/03/2026  
 Sampling Method : SO-IN-MUL-TE-176

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	78.8	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000579.030 **Issue Date** : 14/03/2026  
**ULR No** : TC704726100000556F **JOE No** : KE26-000579  
**Report Control No** : KER0000252358

**Customer Provided Information**

**Sample Described by Customer as** : SOURCE NOISE  
**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : SOURCE NOISE  
**Sampling Location** : NEAR MOULD SHOP PEENING STATION AREA DIP 2  
**Sampling Date** : 05/03/2026  
**Sampling Method** : SO-IN-MUL-TE-176

**Lab Provided Information**

**Sample Type** : SOURCE NOISE  
**Received** : 11/03/2026  
**Test Start/End Date** : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	81.1	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000579.031 **Issue Date** : 14/03/2026  
**ULR No** : TC704726100000557F **JOE No** : KE26-000579  
**Report Control No** : KER0000252358

**Customer Provided Information**

**Sample Described by Customer as** : SOURCE NOISE  
**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sample Description** : SOURCE NOISE  
**Sampling Location** : NEAR MOULD SHOP PEENING STATION AREA DIP 2  
**Sampling Date** : 05/03/2026  
**Sampling Method** : SO-IN-MUL-TE-176

**Lab Provided Information**

**Sample Type** : SOURCE NOISE  
**Received** : 11/03/2026  
**Test Start/End Date** : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	74.5	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.032 Issue Date : 14/03/2026  
 ULR No : TC704726100000558F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sampling Location : NEAR MOULD SHOP GRINDING STATION AREA DIP 2  
 Sampling Date : 05/03/2026  
 Sampling Method : SO-IN-MUL-TE-176  
 Sample Description : SOURCE NOISE

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	79.8	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE26-000579.033 **Issue Date** : 14/03/2026  
**ULR No** : TC704726100000559F **JOE No** : KE26-000579  
**Report Control No** : KER0000252358

**Customer Provided Information**

**Sample Described by Customer as** : SOURCE NOISE  
**Customer Name** : TATA STEEL LIMITED  
**Customer Address** : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
**City** : PASCHIM MEDINIPUR  
**Postal Code** : 721301  
**Country** : INDIA  
**Sampling Location** : DG STACK 1250kva 1  
**Sampling Date** : 02/03/2026  
**Sampling Method** : SO-IN-MUL-TE-176  
**Sample Description** : SOURCE NOISE

**Lab Provided Information**

**Sample Type** : SOURCE NOISE  
**Received** : 11/03/2026  
**Test Start/End Date** : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	100.9	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.034 Issue Date : 14/03/2026  
 ULR No : TC704726100000560F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sampling Location : DG STACK 1250kva 2  
 Sampling Date : 02/03/2026  
 Sampling Method : SO-IN-MUL-TE-176  
 Sample Description : SOURCE NOISE

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	102.1	dB(A) Leq	90	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE26-000579.035 Issue Date : 14/03/2026  
 ULR No : TC704726100000561F JOE No : KE26-000579  
 Report Control No : KER0000252358

**Customer Provided Information**

Sample Described by Customer as : SOURCE NOISE  
 Customer Name : TATA STEEL LIMITED  
 Customer Address : METALIKS DIVISION KHARAGPUR  
 : SAMRAIPUR, GOKULPUR  
 City : PASCHIM MEDINIPUR  
 Postal Code : 721301  
 Country : INDIA  
 Sampling Location : DG STACK 600kva  
 Sampling Date : 05/03/2026  
 Sampling Method : SO-IN-MUL-TE-176  
 Sample Description : SOURCE NOISE

**Lab Provided Information**

Sample Type : SOURCE NOISE  
 Received : 11/03/2026  
 Test Start/End Date : 11/03/2026 - 14/03/2026

**NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
<b>NABL Group :</b> Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
<b>DISCIPLINE:</b> CHEMICAL					
Noise	SO-IN-MUL-TE-049	83	dB(A) Leq	90	

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**Carbon Footprint Reduction initiatives for FY'26**

Detailed Energy Audit was carried out through Bureau of Energy Efficiency (BEE) for the Iron Making Division & Ductile Iron Pipe Division for framing the energy conservation initiatives which will have an impact on reducing Carbon Footprint.

**Electrical Energy conservation initiatives**

- Energy reduction through nitrogen-based process integration in PCI plant as an alternative to compressed air
- Increasing feed water temperature through a HP heater to reduce through (turbine heat rate) and BFG consumption at CPP#2
- Reduce energy consumption and improving power factor by installing Harmonic Filters in DIP-2 LTPCC
- Power Generation through Micro-turbine with PRDS unit in CPP-2
- Installation of fan less zero drift loss cooling tower for MBF-1 and DIP-1 (Power saving 120 KW)
- Pressure Optimization of air compressor (3 Nos.) at MBF-2 (7.5 kg/cm<sup>2</sup> to 5 kg/cm<sup>2</sup>)
- Energy Saving in Hammer crusher motors and flux screen route at Sinter Plant by installing VFD & eliminating idle running hours.
- Pressure Optimization of air compressors at DIP-1&2 by separating domestic line & Idle Running hours reduction by DIP-1&2 airline interlinking
- Reduce the Loading pressure setting from 5.8 kg/cm<sup>2</sup> to 5 kg/cm<sup>2</sup> and unloading pressure setting is 6.7 kg/cm<sup>2</sup> (bar) to 6.0 kg/cm<sup>2</sup> in CPP#2.
- Reduce the Loading pressure setting from 6.5 kg/cm<sup>2</sup> to 5.5 kg/cm<sup>2</sup> and unloading pressure setting is 7.0 kg/cm<sup>2</sup> (bar) to 6.0 kg/cm<sup>2</sup> in CPP#4.

**Renewable, Waste Heat Recovery based systems & others**

- BFG preheating at DIP 1 by using exhaust flue gas to save BFG for additional power generation @ CPP 4. (APH to be installed)
- Installation of Coke Drying unit (25 TPH) to reduce coke moisture using hot exhaust air from sinter cooler zone 3&4, thereby reducing MBF-2 Coke Rate.
- Installation of solar power plant of 1.8MWp at LDP roof top.
- Maximum Demand Controller in DIP Induction Furnace: - Work in progress 80% Erection completed.

**Solid Fuel Saving initiatives**

- Increase Sinter Burden in MBF-1 by changing Sinter Plant screen size from 5 mm to 4 mm.
- Furnace top camera in MBF-1 for continuous gas flow monitoring inside furnace for improving Fuel rate by stable F/C operation.
- Trial run of carbon black to reduce PCI consumption in MBF.
- Top temperature reduction by increasing O<sub>2</sub>%.
- Optimize sinter chemistry to reduce slag rate.
- Coke Drying Unit using Sinter Plant Cooler waste heat - Layout finalized; detail engineering for civil construction under progress.

**Liquid Fuel Saving initiatives**

- Introduction of high efficiency BFG burner for efficient combustion and HSD cost reduction.
- Steam transfer to DIP-2 for Pipe Curing, thereby increasing Power Generation at CPP4.

**PRE- EMPLOYMENT AND PERIODICAL OCCUPATIONAL HEALTH CHECK-UP REPORTS**  
**(FY: 2025-2026)**

<b>Time Period</b>	<b>Initial Medical Examination (IME) of Employees &amp; CL</b>	<b>Periodical Medical Examination (PME) of Employees &amp; CL</b>	<b>Remarks</b>
<b>Apr'25 to Sep'25</b>	<b>1430 (Emp=NIL) (CL= 1430 )</b>	<b>558 (Emp=0) (CL=558)</b>	<b>Total=1988 (IME= 1430) (PME= 558)</b>
<b>Oct'25 to Mar'26</b>	<b>418 (Emp=NIL) (CL=418)</b>	<b>5320 (Emp=1498) (CL=3822)</b>	<b>Total=5738 (IME= 418) (PME=5320)</b>

**CER (Corporate Environment Responsibility) project status**  
**(As per amended EC dtd. 27th January 2021)**

Year	Fund Allocated (Lakh)	Job Details	Project Budget (Lakh)	Status
2019	186.04	Maheshpur (Muslimpara)- Drinking Water & Sanitation Project, Road & Drainage system	95	Completed
		Tentuliya ( Kenduapal)- Drinking Water & Sanitation Project, Drainage system	56.04	Completed
		Maheshpur (Raipara)- Training Centre	35	Completed
2020	50	Mollachak- Drinking Water & Sanitation Project, Drainage system	50	Completed
2021	160	Samraipur- Solar Powered Drinking Water Project, Construction of internal road, toilets, Drain & Waste water management system, renovation of Pond and School	100	Completed
		Risha - Solar powered drinking water project, Toilet blocks, bathroom and drainage work	60	Completed
2022	158.96	Renovation of schools in nearby village(Chunpara)	5	Completed
		Kenduapal- Revival of Drinking Water Project, Sanitation Project & Drainage system	70	Completed
		Keshpal- Sanitation Project	12	Completed
		Uttar Narayanpur- Drinking Water & Sanitation Project, Drainage system	71.96	Completed
<b>Total</b>	<b>555</b>		<b>555</b>	

## **MAJOR ACHIEVEMENTS – (FY'26 – H2)**

**Total Spend (FY'26): Rs. 615 Lakhs | Total Number of beneficiaries (FY'26): 53,650**

### **Tribal Identity:**

1. Two-days “Training of Trainers” workshop on Nagchiki Script of Kora Tribe held on 16<sup>th</sup> & 17<sup>th</sup> December'25. Attended by 26 Participants. These master trainers have started classes on Nagchiki Script for the kora tribe.

### **Education:**

1. 27,325 children aged 3-16 years across 214 school under seven panchayats in Kharagpur 1 block are covered through Education Signature Project. Project aims to improve the Access, Learning & Governance in the targeted schools. 410 children brought back to school under ESP covering all 7 panchayats of KGP 1 Block. Kharagpur 1 block has been declared as Child Labour Free Zone.
2. 450 women successfully completed functional literacy course as per Adult Literacy Module of Tata Consultancy Services
3. 126 students have been supported with scholarship for continuity of their education.

### **Livelihood (Skills)**

1. 425 youth completed short term skill training across eight trades at Multi Skilling Centre - Midanapore. Out of which 275 (64.70%) trainees are placed.

### **Livelihood ( Agriculture)**

1. ~1000 farmers have been benefitting under various agricultural interventions including fish rearing, vegetable cultivation, mushroom cultivation etc.
2. Public entitlement worth ₹1.10 Lakhs unlocked in the form of agricultural inputs through various Govt. Departments i.e. ATMA and BKSJ (Bengal Krishi Sech Yojona)

### **Gender & Community Development**

1. Two batches of 60 women completed DISHA training module after which the trainees will work for gender development in the community

### **Sports**

1. 122 children including girls are being trained at two football coaching centers.

**TRIBAL IDENTITY**



Two-days "Training of Trainers" workshop on Nagchiki Script of Kora Tribe held on 16<sup>th</sup> & 17<sup>th</sup> December'25. Attended by 26 Participants.

Two Nagchiki Script training centers started in Kharagpur, one at Mudipara, Village- Maheshpur and another at Jamboni, Narayangarh

**TATA STEEL FOUNDATION**

**SABAL PROGRAM FOR PERSONS WITH DISABILITIES**



International Day of Persons with Disabilities was celebrated by TSF KGP unit. Total 41 participants including 19 Persons with Disabilities and their parents / guardians attended the program.

**TATA STEEL FOUNDATION**

**EDUCATION**



ParyavaranUtsav celebrated at KrishananagJr High School – participants from all Education projects took part in it

**TATA STEEL FOUNDATION**

**EDUCATION**



Closing Ceremony of Gobinda Centre under Adult Literacy Project celebrated in the village and a team from TATA Steel Foundation visited the project locations. The entire program was organized by the women and other villagers.

**TATA STEEL FOUNDATION**

**AGRICULTURE LIVELIHOOD**



Oyster mushroom farming supported to 112 women after training and input support



Power tiller provided through Govt. convergence program

Bell pepper cultivation started in polyhouse in Basantapur village

**TATA STEEL FOUNDATION**

**LIVELIHOOD- SKILL (Multi Skill Centre, Midnapore)**



Job interview at AU SF Bank Ltd. on 1.03.2026, attended by four candidates out of which one got selected



Job interview at Mpokketon 18.03.2026, attended by 12 candidates out of which 11 got selected.

Multi Skill Center- Overall Status FY26					
Certified	Under training	Placed and self employed	Placement%	Joined	Joining %
327	98	317	97%	275	86%

**TATA STEEL FOUNDATION**

## GENDER & COMMUNITY ENTERPRISES



Food Carts provided to three community women to start their enterprises, inaugurated by Mr. Alok Kumar, Kharagpur



Two batches of 60 women graduated as DISHA Didi after successfully completing three modules.

## TATA STEEL FOUNDATION

### SPORTS



- Organized Two-Day Community Football Tournament for U15 Boys and Girls on 17<sup>th</sup> & 18<sup>th</sup> March
- Eight teams of Boys and Six teams of girls participated in this tournament
- SERSA Football Coaching Center, Kharagpur won in both the categories while TSF Grassroot Football training center stood runner up in both categories.

## TATA STEEL FOUNDATION

### INFRASTRUCTURE



Repair and Painting of auditorium hall at Bhupatinagar Kanya Vidyalaya, Haldia, West Bengal, Benefitting 286 students



Renovation of Priyo Sathi Club, Gumriyapal, Kharagpur. Benefitting 220 youth

## TATA STEEL FOUNDATION

## INFRASTRUCTURE



Inauguration of renovated PriyoSathi Sports Club (Gumariapal) by Mr. Alok Krishna (EIC-TSMD)

## TATA STEEL FOUNDATION



## EMPLOYEE VOLUNTEERING



Employees participating in volunteering activities during TVW25

## TATA STEEL FOUNDATION



## 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.

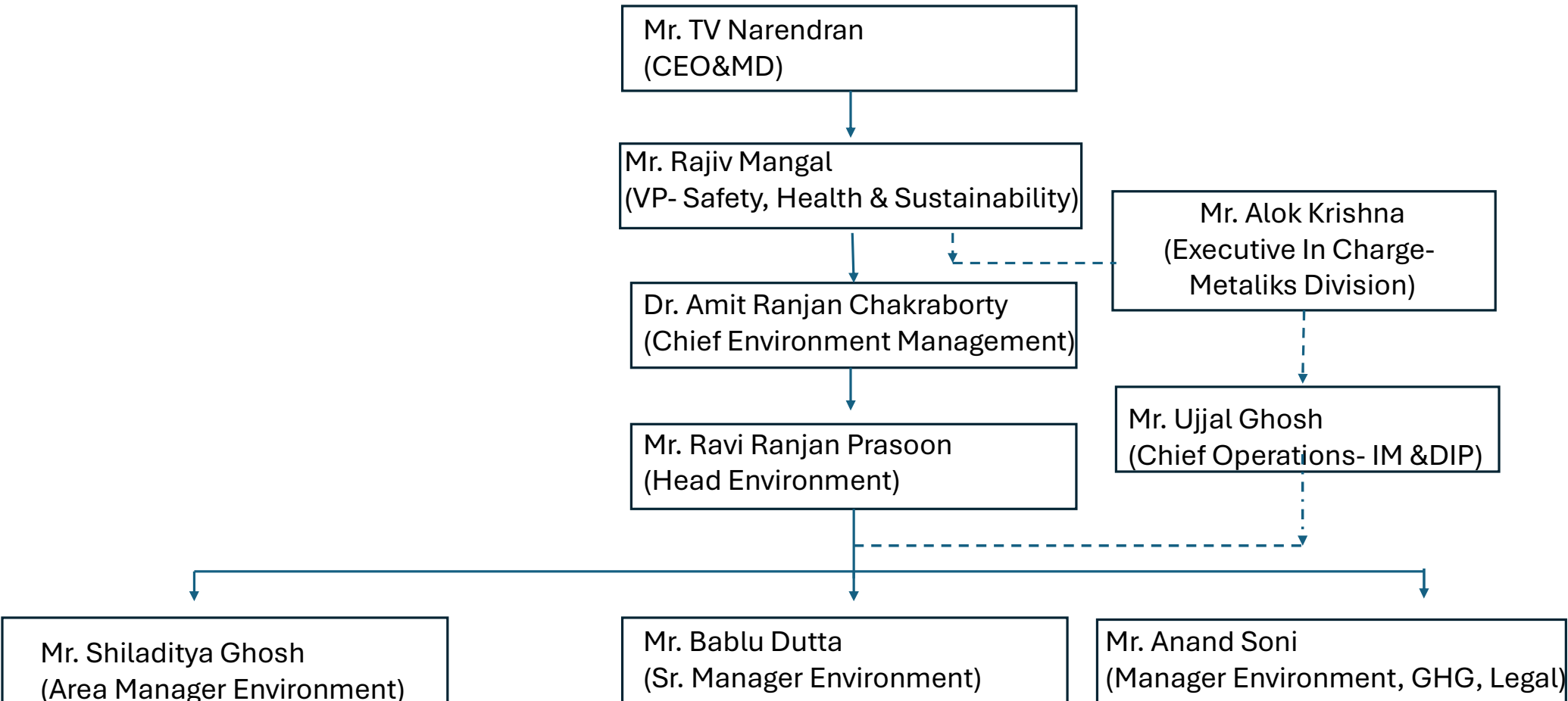
**Date :** November 1, 2017



**T V Narendran**  
CEO & Managing Director



**Environment Organization Structure**



Environment protection measures in FY'26

S.N.	Description of environment protection measure executed/ in advanced stage of completion in FY'26	Investment Amount (₹ in lakh) (order placed/ expenditure made)
1.	Install sinter cooler WHRB (9TPH) 10.5 Kg/cm <sup>2</sup> to generate & supply steam for DIP -2 curing therefore save BFG & generate 1.6 MW power	700.0
2.	Installing Coke drying System 25 TPH at RMHS#1 bunker by using hot exhaust gas of Sinter Cooler zone for moisture reduction.	900.0
3.	Installation of Sewage Treatment Plant 30 KLD for domestic sewage water treatment	99.9
4.	Installation done for Reverse Osmosis (RO) Plant 30 m <sup>3</sup> per hr. at Ductile Iron Pipe Unit.	41.3
5.	Installation of Fanless & finless cooling tower to save water and energy consumption in DIP unit & Iron-making unit.	150.0
6.	Hiring of truck mounted fog canon system for water sprinkling to control fugitive dust for Raw material Stock, inside and out side plant road.	16.06
7.	CMC of CAAQMS	42.3
8.	CMC & Calibration of CEMS by OEM	80.0
9.	Installation of grid connected battery less 1.8 MW solar power system at DIP-2 unit	700.0
10.	Installation of Sonic Soot Blowing technology for increasing the collecting efficiency in Head ESP at Sinter Plant	4.4
11.	Enhancing Bag Filter Performance of RFP by Installation of Sonic Soot Blowing Technology	1.9
12.	Tail ESP upgradation by HFTR installation for performance enhancement and emission control	78.0
13.	Electrical Energy Conservation initiatives through power generation through microturbine with PRDS unit in CPP-2	180.0
14.	Green belt augmentation (2418 nos. of saplings) inside plant & for plantation at nearby community (9711 nos. of saplings) from Apr25 to Mar25	6.5
15.	Wind shelter fencing is constructed near Iron ore yard & horizontal deployment	5.0
16.	IOT Based Smart Ultrasonic Water Flow Meters Installation	30.0
17.	Installation of micro turbine with pressure reducing system	210.0
18.	Upgradation of Induced Draft (ID) fan at tail side of Electrostatic Precipitator (ESP) in Sinter Plant	74.0
19.	Renewable Consumption Obligation (RCO) Compliance audit by BEE accredited agency	1.75
20.	Hiring of Road Sweeping Machine (DULEVO- 5000) for reduction of fugitive dust on inside plant road.	78.0

## ENVIRONMENTAL AUDIT

TATA METALIKS LIMITED, KHARAGPUR



## TATA METALIKS LIMITED

Project No. PI/TMLKI23-18

Revision No. 0

Issue Date: 18-10-2023

PRAYUKTI INTERNATIONAL

In Association With



Ultra Tech (Environmental Consultancy & Laboratory)



**Project / Facility:** ENVIRONMENTAL AUDIT  
**Study Location:** TATA METALIKS LIMITED, KHARAGPUR  
**Project Type:** Industrial Audit

**Document Ref. No:** PI/TMLKI23-18

**Revision No:** 0

**Issue Date:** 18-10-2023

**Prepared for:** TATA METALIKS LIMITED

Location: Village Maheshpur, Tehsil Kharagpur, District- Paschim Medinipur, Pin-721301 West Bengal

**Prepared by:** Prayukti International [Legal Name: Bongs Prayukti International Pvt. Ltd.]

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**In association with:**

**ULTRA TECH (Environmental Consultancy & Laboratory)**

[Lab Approved and Gazetted by MoEF]

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Client				Report No.	
TATA METALIKS LIMITED				PI/TMLKI23-18	
Revision	Description	Originator	Reviewed	Approved	Date
0	Environmental Audit Report	PG	NG	SB	18-10-2023

**Disclaimer:**

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PRAYUKTI INTERNATIONAL PVT. LTD.

CIN No. U74900WB2016PTC209098

Ref: PI/TMLKI23-18

Date: 18-10-2023

To

Shri Bablu Dutta  
Manager-Environment  
Tata Metaliks Limited  
Vill – Maheshpur, P.O. Samraipur,  
PS – Kharagpur (Local),  
Dist- Paschim Medinipur,  
West Bengal, Pin Code - 721301  
Mobile: +91 7595868484  
Email: bablu.dutta@tatametalks.co.in

**Subject: Final External Environmental Audit & Compliance Audit Report submission  
at Tata Metaliks Ltd., Kharagpur**

Dear Sir,

With reference to:

- the above quoted Subject matter
- your Purchase Order No. **4100009103** dated **10.04.2023**,

enclosed please find the **Final External Environmental Audit & Compliance Audit Report (PI/TMLKI23-18)** dated **18-10-2023** for further necessary use, reference & submissions at your end. The Environment Audit has been carried out with Prayukti's JV Partner M/s Ultra-tech Environmental Consultancy & Laboratory (Gazetted by MoEF&CC – Go).

Our Team of 04 Auditors had carried out the aforesaid Audit with site-visit at your Plant during 03 ~ 05 April, 2023 with the coordination of all concerned at Tata Metaliks Limited. We would again like to express our sincere thanks for the kind courtesy and assistance extended to us during the site-visit cum as also during the post-audit Report preparation phase.

For various Trainings, Environment Audit, Safety Audit, EHS Legal Audit, GHG & Carbon-sequestration Study, Pollution Control Equipment Efficiency Study, ISO 14001 & ISO 45001 implementation, Documentation assistance and other matters related to continual improvement in Environment, Health & Safety (EHS), do feel free to contact us.

We sincerely thank you for reposing faith in Prayukti International Services.

With best regards,



**NIRMALYA GANGULY**  
Principal Consultant  
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**Environmental Consultancy & Laboratory (Gazetted by MoEF - Govt. of India)**

**Head office:** Unit 224, 225, 206, Jai Commercial Complex, Eastern Express highway, opp Cadbury factory, Khopat, Thane (W)- 400601; Ph : +91-22-25342776 / 25380195 / 25331438 Fax : +91-22-25429650 Email : [sales@ultratech.in](mailto:sales@ultratech.in)  
**Kolkata Office:** CG-229, Sector II, Salt Lake, Kolkata – 700091, Ph : +91-33-40089145, Email : [kolkata@ultratech.in](mailto:kolkata@ultratech.in)

Date : 18.10.2023

**UNDERTAKING**

ULTRATECH (Environmental Consultancy & laboratory) accredited with Quality Council of India (QCINABET) for 12 sectors including Metallurgical Industry (Ferrous & Non-Ferrous) undertakes that:

The present study has been conducted as per the Compliance Conditions noted in the Environmental Clearance (EC) issued by Ministry of Environment, Forests & Climate Change (MoEF&CC) and Consent To Operate (CTO) issued by West Bengal State Pollution Control Board (WBPCB). The data submitted in the Report is factually correct and also owning the content of the report. The compliance report for 'TATA METALIKS LIMITED, Village Gokulpur, Tehsil Kharagpur, District- Paschim Medinipur, Pin-721301 West Bengal.' is submitted herewith for further processing.

For ULTRA TECH (Environmental Consultancy & Laboratory



(Debasish Sengupta)  
General Manager  
ULTRA TECH – Kolkata Branch

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[www.ultratech.in](http://www.ultratech.in)

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**TATA**  
**TATA METALIKS LTD.**  
 CIN : LZ7310WB1990PLC050000  
 P.O.: Samraipur, Kharagpur, Dist - Paschim Medinipur, West Bengal - 721301, India

**PUBLIC NOTICE**

It is hereby informed to all concerned that Tata Metaliks Limited located at PO. Samraipur, Block - Kharagpur- 1, District - Paschim Medinipur, West Bengal. The plant has obtained Environment Clearance from Ministry of Environment, Forest & Climate Change, Govt. of India vide their letter F. No. J - 11011/377/2013-IA-II(I) dated 28/01/2019 for the proposal of capacity expansion of hot metal from 0.5 to 0.75 MTPA, Ductile Iron pipe from 0.30 to 0.50 MTPA and 0.1 MTPA castings and fittings. The details of the above Environment Clearance are available at the State Pollution Control Board, West Bengal and the website of the Ministry of Environment, Forest and Climate Change. (<http://www.envfor.nic.in/>)

For Tata Metaliks Limited  
 Sd/-  
**N. V. Ramanathan**  
 Vice President - Engineering & Projects

# LARGEST DIALYSIS UNIT IN KOLKATA

- HDF (Haemodiafiltration)
- SLED (Slow Low Efficiency Dialysis)
- CRRT (Continuous Renal Replacement Therapy)
- Plasmapheresis
- Hi Flux Haemodialysis

Online Kt/V Estimation  
(To assess adequacy of Dialysis)

সংবাদ-১০১১ ১০১১

## মেদিনীপুর-বাড়গ্রাম



কলকাতার জন্য পানীয় জলসমূহের উৎস হিসেবে ব্যবহৃত একটি জলক্লোরিনেশন প্ল্যান্ট।

**সাজছে সৈকত, রাত পোহালেই উৎসব**

নিহা

কলকাতার জন্য পানীয় জলসমূহের উৎস হিসেবে ব্যবহৃত একটি জলক্লোরিনেশন প্ল্যান্ট।

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**TATA**  
**টাটা মেটালিক্স লিমিটেড**  
 CIN : LZ7310WB1990PLC050000  
 পশ্চিম মেদিনীপুর, কলকাতা - ৭২১৩০১

কলকাতা

কলকাতার জন্য পানীয় জলসমূহের উৎস হিসেবে ব্যবহৃত একটি জলক্লোরিনেশন প্ল্যান্ট।

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**বিয়ে করতে অসুবিধে, স্থায়ী সমাধান চান ?**

**টাক থেকে মুক্তি পান, দুলা মাগান**

কলকাতার জন্য পানীয় জলসমূহের উৎস হিসেবে ব্যবহৃত একটি জলক্লোরিনেশন প্ল্যান্ট।

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**Annexure-20**

This screenshot shows a web browser window with the URL [tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports/](https://tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports/). The page header includes the Tata Steel logo and navigation icons. The main content area displays the title "Bio Medical Waste Details of OHC at Tata Steel Metaliks Division, Kharagpur for the Month of Sep'2025" and a sub-header "Environment Clearance compliance of Tata Steel Limited, Metaliks Division, Kharagpur for the period Apr 2025 to Sep 2025". The date "Kharagpur 22 November 2025" is also visible. A sidebar on the right contains a "CANCEL AUDIO" button and an "EXPLORE MORE" button.

This screenshot shows the same web browser window with the URL [tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports/](https://tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports/). The page header is identical to the first screenshot. The main content area displays the title "Environment Statement (Form-V) of Tata Steel Metaliks Division, Kharagpur for FY'2025" and the date "Kharagpur 17 September 2025". A sidebar on the right contains a "CANCEL AUDIO" button and an "EXPLORE MORE" button.

Your (**Half Yearly Compliance Report**) has been **Submitted** with following details

<b>Proposal No</b>	IA/WB/IND/21443/2024
<b>Compliance ID</b>	127505087
<b>Compliance Number(For Tracking)</b>	EC/M/COMPLIANCE/127505087/2025
<b>Reporting Year</b>	2025
<b>Reporting Period</b>	01 Dec(01 Apr - 30 Sep)
<b>Submission Date</b>	22-11-2025
<b>RO/SRO Name</b>	Shri Senthil Kumar Sampath
<b>RO/SRO Email</b>	agmu156@ifs.nic.in
<b>State</b>	WEST BENGAL
<b>RO/SRO Office Address</b>	Integrated Regional Offices, Kolkata
<b>Note:-</b> SMS and E-Mail has been sent to Shri Senthil Kumar Sampath, WEST BENGAL with Notification to Project Proponent.	

Your (**Half Yearly Compliance Report**) has been **Submitted** with following details

<b>Proposal No</b>	IA/WB/IND/21443/2024
<b>Compliance ID</b>	1228862482
<b>Compliance Number(For Tracking)</b>	EC/M/COMPLIANCE/1228862482/2026
<b>Reporting Year</b>	2026
<b>Reporting Period</b>	01 Jun(01 Oct - 31 Mar)
<b>Submission Date</b>	25-05-2026
<b>RO/SRO Name</b>	Shri Senthil Kumar Sampath
<b>RO/SRO Email</b>	agmu156@ifs.nic.in
<b>State</b>	WEST BENGAL
<b>RO/SRO Office Address</b>	Integrated Regional Offices, Kolkata
<b>Note:-</b> SMS and E-Mail has been sent to Shri Senthil Kumar Sampath, WEST BENGAL with Notification to Project Proponent.	