

Ref No. TSLMD/ENV/25-11/33

Date: 21/11/2025

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.
  - 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 (April'25 to October'25) 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:

Member Secretary West Bengal Pollution Control Board, Paribesh Bhawan, 10 A, Block-LA, Sector-III, Salt Lake City, Kolkata – 700 098 Environmental Engineer & I/c, West Bengal Pollution Control Board, Haldia Regional Office, West Bengal

CPCB, Zonal Office Kolkata

# I. Statutory compliance:

S.N.	Conditions	Compliance status
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.	Agreed. 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.	Agreed. 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.	Agreed. Authorization under Hazardous and other Waste Management Rules, 2016 has already been obtained.

# II. Air quality monitoring and preservation:

S.N.	Conditions	Compliance status
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.	Complied.  All the process stacks are provided with 24 x 7 continuous emission monitoring system. Data connectivity has been provided to CPCB 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.	Complied.  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 Annexure-1 for your ready reference.

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.	Complied.  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. Details attached as Annexure- 2 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 sixmonthly monitoring report.	Complied.  Monthly summary report of Continuous stack Emission Monitoring System (CEMS) & Continuous Ambient Air Quality Monitoring Station (CAAQMS) is enclosed herewith as Annexure – 3 (a & b).  Manual monitoring report of both stack & ambient air quality is enclosed herewith as Annexure – 4 (a & b).  Last monitoring report has been submitted to MoEF&CC, Zonal office of CPCB and Regional Office of SPCB on letter no TSLMD/ENV/25-05/15 dtd.20.05.2025
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.	Complied.  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.	Complied.  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.	Not applicable. because Tata Steel Limited, 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.	Complied.  Mobile road sweeping machine (DULEVO 5000) has been deployed for cleaning of plant roads. done on regular basis by manually also on roads, shop floors,

		roofs. Photograph is attached in <b>Annexure-5</b> . Housekeeping is being
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.	Complied.  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.	Complied. 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 Annexure-6 for your ready reference.
xi.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Complied.  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 Annexure-7 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.	Being complied.  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 ETP & reutilized as process make up, dust suppression & washing purpose.  Now as per mentioned notification we shall initiate to install CCTV at discharge point and connection to be provided to CPCB portal.

ii.	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Complied. 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 Annexure-8 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.	Complied.  Analysis reports of recycled effluent & ground water quality are attached herewith in Annexure- 9 and Annexure-8.  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/25-05/15 dtd.20.05.2025.
iv.	Adhere to 'Zero Liquid Discharge'.	Being complied.  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.	Being Complied.  Domestic wastewater generated from the plant toilets are treated through septic tank followed by soak pit. Installation of Sewage Treatment Plant (Capacity- 30 KLD) is under progress.
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.	Complied.  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.	Complied. 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 Annexure-10 for your ready reference.

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.	Complied.  Water from MBF-1 &2, Sinter plant, CPPs, Ductile Iron Pipe plant is treated in separate ETPs as per quality of wastewater generated & 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 & treated water is being used at cooling tower of CPP#2. RO plant 30 m3/hr is installed for Ductile Iron Pipe unit.
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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.	Complied.  Ambient noise and Work zone noise level is monitored on quarterly basis. Same is attached as Annexure -11.
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.	Complied.  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 Annexure-11.

# 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.	Not Applicable 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.	Complied.  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 & 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.
iv.	Provide LED lights in their offices and residential areas.	Complied.  LED lights have been provided in most of the offices & plant site and will be installed in all newly build offices in future.

# VI. Waste Management:

S.N.	Conditions	Compliance status
i.	Used refractories shall be recycled as far as possible.	Complied. 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.	Not applicable. 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.	Complied.  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.	Complied.  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.	Being complied.  Green belt in an area equal to 33% is being developed inside as well as outside own land. We have total approx. 58000 nos of tree planted as of now. Out of this 2316 & 9361 nos. saplings have been planted inside & at nearby community from Apr25 to Sep25. 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 Polylthea longifolia, Casullina aquisetifolia, 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.	Complied.  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 Annexure – 12 for your ready reference.

# 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.	Complied.  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.	Complied.  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.	Complied.  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.	Complied.  Regular health surveillance of all the workers is being conducted. Record of pre-employment health checkup is attached as Annexure -13.

# 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.	Complied. Compliance w.r.t Corporate Environment Responsibility is enclosed as Annexure - 14.
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 sixmonthly report.	Complied. Tata Steel's Central Environmental Policy is followed by Metaliks division. Copy is enclosed as Annexure-15.

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.	Complied.  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.  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.  Organization chart is attached as Annexure-16 is for your ready reference.
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.	Complied. 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&CC. The capital investment & action plan on environment protection is enclosed as Annexure—17. Funds so provided are not diverted for any other purpose.
V.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Complied. Self- environmental audit is conducted as a part of the surveillance audit & 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 Annexure-18.
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	Complied.  Environment clearance information/notice had been advertised in two local newspaper dated 01.02.219 in English Paper and Bengali Paper viz The Telegraph and Ananda Bazar Patrika attached as Annexure-19.
	seven days and in addition this shall also be	

	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.	Complied.  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.	Complied.  Compliance condition status of Environment clearance has been uploaded along with monitoring data on company website (www.tatasteel.com) on half yearly basis.  Copy is attached as Annexure-20 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.	Complied 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 sixmonthly 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.	Complied 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 Annexure-21.
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.	Complied. 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="www.tatasteel.com">www.tatasteel.com</a> ). Copy enclosed as Annexure-20 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

	Pollution Control Board and the State	
ix.	Government.  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.	Complied.  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 Annexure - 14.
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, interalia 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







TC-7047

#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.001-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001023F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

### **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 : 11.04.2025
Sampling Location : NEAR TAIL ESP
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

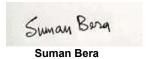
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	` '	IS 5182 (Part 02) : 2006	34.3 70.0	ug/m3		5000 6000
Nitrogen Dioxi	ae (NO2)	IS 5182 (Part 06) : 2006	70.0	ug/m3		ουυυ

### Per pro SGS India Private Ltd



### **Authorized Signatory**

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

### Page 1 of 1

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 07 days (in case of perishable items) and 30 days for all other samples from the date of issue of report. The samples from the regulatory bodies are to be retained as specified.

Statement of conformity, wherever required or provided, is based on comparison of measurement result(s) with the applicable limit(s) according to the specification in the respective standard or as shared by the customer. Measurement Uncertainty is not taken into account unless otherwise requested in writing.

For any feedback or complaint please write to us at <a href="https://sgssurveys.qualtrics.com/ife/form/SV\_eP7WY1kg3NyF4v1">https://sgssurveys.qualtrics.com/ife/form/SV\_eP7WY1kg3NyF4v1</a>



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.001-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 : 11.04.2025
Sampling Location : NEAR TAIL ESP
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	571.00	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	2739.47	ug/m3		10000

### Per pro SGS India Private Ltd

Sumay Bong Suman Bera

**Authorized Signatory** 

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

### Page 1 of 1

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 07 days (in case of perishable items) and 30 days for all other samples from the date of issue of report. The samples from the regulatory bodies are to be retained as specified.

Statement of conformity, wherever required or provided, is based on comparison of measurement result(s) with the applicable limit(s) according to the specification in the respective standard or as shared by the customer. Measurement Uncertainty is not taken into account unless otherwise requested in writing.

For any feedback or complaint please write to us at <a href="https://sgssurveys.qualtrics.com/fee/form/SV\_eP7WY1kg3NyF4v/">https://sgssurveys.qualtrics.com/fee/form/SV\_eP7WY1kg3NyF4v/</a>







#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.002-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001024F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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 : 11.04.2025
Sampling Location : NEAR HEAD ESP
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

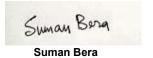
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	21.7	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	41.1	ug/m3		6000

### Per pro SGS India Private Ltd



### **Authorized Signatory**

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

### Page 1 of 1

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.002-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

**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 : 11.04.2025
Sampling Location : NEAR HEAD ESP
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	108.41	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	642.72	ug/m3		10000

### Per pro SGS India Private Ltd

Sumay Beng Suman Bera

**Authorized Signatory** 

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

### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.003-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001025F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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 . 11.04.2025

Sampling Location : NEAR IRON ORE YARD Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

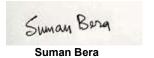
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	and Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	26.3	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	58.4	ug/m3		6000

### Per pro SGS India Private Ltd



### **Authorized Signatory**

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

### Page 1 of 1

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.003-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 . 11.04.2025

Sampling Location : NEAR IRON ORE YARD Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	411.00	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1943.50	ug/m3		10000

### Per pro SGS India Private Ltd

Suman Berg Suman Berg

**Authorized Signatory** 

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

### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.004-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001026F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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 : 11.04.2025

Sampling Location : NEAR COAL YARD
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

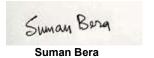
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group: Atmospheric Pollution		Work Environment and Indoor Air Quality				
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	e (SO2)	IS 5182 (Part 02): 2006	18.7	ug/m3		5000
Nitrogen Dioxid	le (NO2)	IS 5182 (Part 06) : 2006	36.4	ug/m3		6000

### Per pro SGS India Private Ltd



**Authorized Signatory** 

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

### Page 1 of 1

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.004-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 : 11.04.2025

Sampling Location : NEAR COAL YARD
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	336.58	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	520.16	ug/m3		10000

### Per pro SGS India Private Ltd

Sumay Bong Suman Bera

**Authorized Signatory** 

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

### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.005-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001027F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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 . 11.04.2025

Sampling Location : NEAR SINTER BUILDING
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

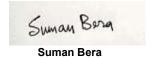
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis	nalysis Method	Method	Result	Unit	•	ment/Limit RY ACT 1948
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	23.7	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	50.4	ug/m3		6000

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# **Authorized Signatory**

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

Member of the SGS Group (SGS SA)

### Page 1 of 1

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.005-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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** • 11.04.2025

Sampling Location : NEAR SINTER BUILDING
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	266.57	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	948.98	ug/m3		10000

### Per pro SGS India Private Ltd

Sumay Beng Suman Bera

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

### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.006-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001028F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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** • 11.04.2025

Sampling Location SINTER SCREEN FLOOR(RMHS-2)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

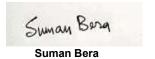
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	38.2	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	78.0	ug/m3		6000

### Per pro SGS India Private Ltd



### **Authorized Signatory**

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

### Page 1 of 1

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.006-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 . 11.04.2025

Sampling Location : SINTER SCREEN FLOOR(RMHS-2)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	501.56	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	3645.34	ug/m3		10000

### Per pro SGS India Private Ltd

Sumay Bang Suman Bera

**Authorized Signatory** 

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

### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.007-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001029F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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** • 12.04.2025

Sampling Location : NEAR PIG IRON YARD Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

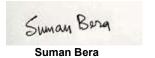
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis	Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	and Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	15.6	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	31.3	ug/m3		6000

### Per pro SGS India Private Ltd



### **Authorized Signatory**

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

### Page 1 of 1

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.007-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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** • 12.04.2025

Sampling Location : NEAR PIG IRON YARD Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	FACTO	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	83.26	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	258.39	ug/m3		10000

### Per pro SGS India Private Ltd

Sumay Bong Suman Bera

**Authorized Signatory** 

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

### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.008-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001030F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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** • 12.04.2025

Sampling Location : CB#5 DISCHARGE POINT(RMHS-1)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

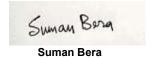
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis	Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	ind Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxide	e (SO2)	IS 5182 (Part 02): 2006	37.4	ug/m3		5000
Nitrogen Dioxid	e (NO2)	IS 5182 (Part 06) : 2006	73.8	ug/m3		6000

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

### Page 1 of 1

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.008-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

**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 . 12.04.2025

Sampling Location : CB#5 DISCHARGE POINT(RMHS-1)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Li FACTORY ACT	
				Min Ma	ıx
Respirable Suspended Particulate	IS:5182 (Part-23):2006	645.64	ug/m3	5000	)
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	3266.90	ug/m3	1000	00

### Per pro SGS India Private Ltd

Suman Berg Suman Berg

**Authorized Signatory** 

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

### Page 1 of 1

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.009-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001031F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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** • 12.04.2025

Sampling Location : CB#4 DISCHARGE POINT(RMHS - 2)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

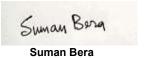
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method Result		Unit	•	ment/Limit RY ACT 1948
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxide	e (SO2)	IS 5182 (Part 02): 2006	40.1	ug/m3		5000
Nitrogen Dioxid	le (NO2)	IS 5182 (Part 06) : 2006	82.2	ug/m3		6000

### Per pro SGS India Private Ltd



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### **Authorized Signatory**

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

### Page 1 of 1

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.009-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 . 12.04.2025

Sampling Location : CB#4 DISCHARGE POINT(RMHS - 2)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	655.53	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	6181.47	ug/m3		10000

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Sumay Beng Suman Bera

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

### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.010-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001032F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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** • 12.04.2025

Sampling Location : NEAR SCRAP YARD Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

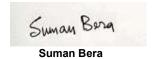
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	de (SO2)	IS 5182 (Part 02): 2006	22.9	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	46.2	ug/m3		6000

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### **Authorized Signatory**

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

### Page 1 of 1

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.010-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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** • 12.04.2025

Sampling Location : NEAR SCRAP YARD
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	226.68	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	883.84	ug/m3		10000

### Per pro SGS India Private Ltd

Sumay Bang Suman Bera

**Authorized Signatory** 

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

### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.011-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001033F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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 . 12.04.2025

Sampling Location FS#4 DISCHARGE POINT(RMHS-1)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

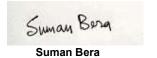
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	33.6	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	72.4	ug/m3		6000

### Per pro SGS India Private Ltd



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

### Page 1 of 1

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.011-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 . 12.04.2025

Sampling Location : FS#4 DISCHARGE POINT(RMHS-1)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	635.76	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	2996.90	ug/m3		10000

### Per pro SGS India Private Ltd

Sumay Bong Suman Bera

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

### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.012-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001034F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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 . 12.04.2025

Sampling Location FS-5 DISCHARGE POINT(RMHS-2)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

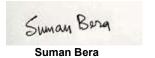
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	36.6	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	79.4	ug/m3		6000

### Per pro SGS India Private Ltd



### **Authorized Signatory**

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

### Page 1 of 1

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.012-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 . 12.04.2025

Sampling Location : FS-5 DISCHARGE POINT(RMHS-2)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	549.68	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	3641.44	ug/m3		10000

### Per pro SGS India Private Ltd

Sumay Beng Suman Bera

**Authorized Signatory** 

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

### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.013-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001035F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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 . 14.04.2025

Sampling Location . BETWEEN SPCM 1 & 2 AREA

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

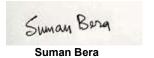
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max	
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	30.5	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	67.7	ug/m3		6000

### Per pro SGS India Private Ltd



**Authorized Signatory** 

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

### Page 1 of 1

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.013-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 . 14.04.2025

Sampling Location BETWEEN SPCM 1 & 2 AREA

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	272.74	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	2325.01	ug/m3		10000

### Per pro SGS India Private Ltd

Sumay Beng Suman Bera

### **Authorized Signatory**

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

#### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.014-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001036F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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 . 14.04.2025

Sampling Location . NEAR NEW O2 PLANT (ELLENBARRIC)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

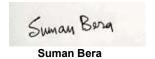
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	de (SO2)	IS 5182 (Part 02): 2006	35.1	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	78.4	ug/m3		6000

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### **Authorized Signatory**

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

#### Page 1 of 1

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.014-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 . 14.04.2025

Sampling Location . NEAR NEW O2 PLANT (ELLENBARRIC)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	Requirem FACTOR	nent/Limit Y ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	944.00	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	4685.01	ug/m3		10000

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Sumay Beng Suman Bera

**Authorized Signatory** 

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

#### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.015-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001037F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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 . 14.04.2025

Sampling Location . DI PLANT DISPATCH YARD

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

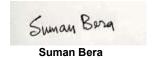
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	15.3	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	35.5	ug/m3		6000

### Per pro SGS India Private Ltd



### **Authorized Signatory**

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

### Page 1 of 1

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.015-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 . 14.04.2025

Sampling Location . DI PLANT DISPATCH YARD

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	117.39	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	537.80	ug/m3		10000

### Per pro SGS India Private Ltd

Sumay Bang Suman Bera

**Authorized Signatory** 

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

#### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.016-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001038F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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** • 14.04.2025

Sampling Location . NEAR BITUMEN EXTERNAL COATIN FL-4 & FL-5(DIP-2)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

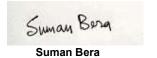
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method Result	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	and Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	de (SO2)	IS 5182 (Part 02): 2006	29.8	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	56.5	ug/m3		6000

### Per pro SGS India Private Ltd



# Authorized Signatory

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

Member of the SGS Group (SGS SA)

#### Page 1 of 1

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SGS India Pvt. Ltd.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.016-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 . 14.04.2025

Sampling Location . NEAR BITUMEN EXTERNAL COATIN FL-4 & FL-5(DIP-2)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	493.84	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1491.86	ug/m3		10000

### Per pro SGS India Private Ltd

Sumay Bong Suman Bera

**Authorized Signatory** 

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

#### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.017-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001039F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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 . 14.04.2025

Sampling Location . NEAR BITUMEN COATING FL-2

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

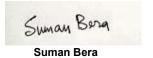
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	de (SO2)	IS 5182 (Part 02): 2006	23.7	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	45.7	ug/m3		6000

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

#### Page 1 of 1

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.017-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 . 14.04.2025

Sampling Location . NEAR BITUMEN COATING FL-2

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	nent/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	165.07	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	997.25	ug/m3		10000

### Per pro SGS India Private Ltd

Sumay Beng Suman Bera

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

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.018-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001040F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

**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 . 14.04.2025

Sampling Location . NEAR BITUMEN EXTERNAL COATING FL-1 & FL-2(DIP-2)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

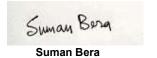
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Method Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	20.6	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	42.9	ug/m3		6000

### Per pro SGS India Private Ltd



**Authorized Signatory** 

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

#### Page 1 of 1

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.018-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 . 14.04.2025

Sampling Location . NEAR BITUMEN EXTERNAL COATING FL-1 & FL-2(DIP-2)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	176.34	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	934.77	ug/m3		10000

### Per pro SGS India Private Ltd

Sumay Bong Suman Bera

**Authorized Signatory** 

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

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.019-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001041F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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** • 15.04.2025

Sampling Location : ZINC COATING FL-1
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

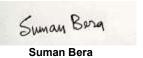
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis	Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	and Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	` '	IS 5182 (Part 02) : 2006 IS 5182 (Part 06) : 2006	28.2 61.2	ug/m3 ug/m3		5000 6000
Nitrogen Dioxi	de (NO2)	13 5 162 (Part 00) . 2000	01.2	ug/ms		6000

### Per pro SGS India Private Ltd



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### **Authorized Signatory**

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

#### Page 1 of 1

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.019-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 . 15.04.2025

Sampling Location : ZINC COATING FL-1
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	quirement/Limit CTORY ACT 1948	
				Min	Max	
Respirable Suspended Particulate	IS:5182 (Part-23):2006	516.68	ug/m3		5000	
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1851.81	ug/m3		10000	

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Sumay Beng Suman Bera

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

#### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.020-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001042F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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** • 15.04.2025

Sampling Location : ZINC COATING FL-2
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

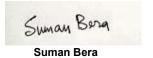
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis	Method Result	Unit	Requirement/Limit FACTORY ACT 1948			
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	31.7	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	71.0	ug/m3		6000

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### Page 1 of 1

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.020-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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** • 15.04.2025

Sampling Location : ZINC COATING FL-2
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	989.20	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	2444.36	ug/m3		10000

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Sumay Beng Suman Bera

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

#### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE25-000718.021-A 26/04/2025 Report No **Issue Date** : KE25-000718 **ULR No** TC704725100001043F JOE No

: KER0000234953 Report Control No

Customer Provided Information

: WORKZONE AIR QUALITY MONITORING Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name** 

METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

721301 **Postal Code** INDIA Country

: WORKZONE AIR QUALITY MONITORING Sample Description

Sampling Date 15.04.2025

Sampling Location • NEAR CORE SHOP(DIP-1) SO-IN-MUL-TE-176 Sampling Method

Lab Provided Information

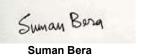
WORKZONE Sample Type Received 19/04/2025

19/04/2025 - 26/04/2025 Test Start/End Date

#### **NABL Accredited Tests**

Analysis	Method Result	Unit	Requirement/Limit FACTORY ACT 1948			
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	de (SO2)	IS 5182 (Part 02): 2006	34.0	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	76.6	ug/m3		6000

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

#### Page 1 of 1

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.021-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 . 15.04.2025

Sampling Location : NEAR CORE SHOP(DIP-1)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Requirement/Limi Unit FACTORY ACT 19	
				Min Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	796.86	ug/m3	5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	3568.31	ug/m3	10000

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#### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.022-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001044F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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** • 15.04.2025

Sampling Location . SAND RECLAMATION SYSTEM

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

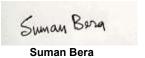
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis	Method	Method Result	Unit	Requirement/Limit FACTORY ACT 1948		
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	and Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	26.7	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	63.5	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.022-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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** • 15.04.2025

Sampling Location . SAND RECLAMATION SYSTEM

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	equirement/Limit ACTORY ACT 1948	
				Min	Max	
Respirable Suspended Particulate	IS:5182 (Part-23):2006	431.16	ug/m3		5000	
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1588.44	ug/m3		10000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.023-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100000367F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

**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** • 15.04.2025

Sampling Location : NEAR CORE SHOP (DIP-2)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

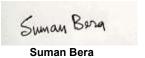
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis	Method	Method Result	Unit	Requirement/Limit FACTORY ACT 1948		
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	21.0	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	48.1	ug/m3		6000

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### Page 1 of 1

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.023-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

**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 . 15.04.2025

Sampling Location . NEAR CORE SHOP (DIP-2)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	468.15	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1069.42	ug/m3		10000

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE25-000718.024-A 26/04/2025 Report No **Issue Date** : KE25-000718 **ULR No** TC704725100001045F JOE No

: KER0000234953 Report Control No

Customer Provided Information

: WORKZONE AIR QUALITY MONITORING Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name** 

METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

721301 **Postal Code** INDIA Country

: WORKZONE AIR QUALITY MONITORING Sample Description

Sampling Date 16.04.2025

Sampling Location **NEAR BITUMEN COATING FL-1** 

SO-IN-MUL-TE-176 Sampling Method

Lab Provided Information

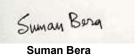
WORKZONE Sample Type Received 19/04/2025

19/04/2025 - 26/04/2025 Test Start/End Date

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	de (SO2)	IS 5182 (Part 02): 2006	24.8	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	54.2	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.024-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 • 16.04.2025

Sampling Location . NEAR BITUMEN COATING FL-1

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	ement/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	181.66	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1269.24	ug/m3		10000

### Per pro SGS India Private Ltd

Sumay Beng Suman Bera

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.025-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001046F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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 : 16.04.2025
Sampling Location : NEAR CCM AREA
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

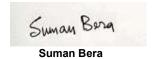
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis	Method	Method Result	Unit	Requirement/Limit FACTORY ACT 1948		
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	27.1	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	58.4	ug/m3		6000

### Per pro SGS India Private Ltd



### **Authorized Signatory**

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

#### Page 1 of 1

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.025-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 : 16.04.2025
Sampling Location : NEAR CCM AREA
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	-	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	279.80	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	969.19	ug/m3		10000

### Per pro SGS India Private Ltd

Suman Bera

**Authorized Signatory** 

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

#### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.026-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001047F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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 • 16.04.2025

Sampling Location . NEAR INDUCTION FURNACE MAGNESIUM CONVERTOR AREA(DIP - 1)

Sampling Method SO-IN-MUL-TE-176

Lab Provided Information

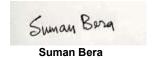
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	-	ment/Limit RY ACT 1948
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	de (SO2)	IS 5182 (Part 02): 2006	29.0	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	74.2	ug/m3		6000

### Per pro SGS India Private Ltd



### **Authorized Signatory**

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

#### Page 1 of 1

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.026-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 • 16.04.2025

Sampling Location : NEAR INDUCTION FURNACE MAGNESIUM CONVERTOR AREA(DIP - 1)

Sampling Method SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	11.76	Requirement/Limit Unit FACTORY ACT 194		
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	558.17	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	3381.58	ug/m3		10000

### Per pro SGS India Private Ltd

Sumay Bang Suman Bera

**Authorized Signatory** 

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

### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.027-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001048F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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** • 16.04.2025

Sampling Location : NEAR ZINC COATING FL-3
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

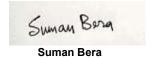
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis	S Method	Result	Unit	Requirement/Limit FACTORY ACT 1948		
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	16.8	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	39.2	ug/m3		6000

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

#### Page 1 of 1

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.027-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 • 16.04.2025

Sampling Location : NEAR ZINC COATING FL-3

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	215.68	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	442.81	ug/m3		10000

### Per pro SGS India Private Ltd

Suman Bera

**Authorized Signatory** 

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

#### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.028-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001049F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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 • 16.04.2025

Sampling Location . NEAR EXTERNAL COATING FL-3

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

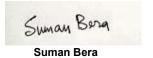
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis	Analysis	Method Resul	Result	Unit	•	ment/Limit RY ACT 1948
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	de (SO2)	IS 5182 (Part 02): 2006	19.1	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	41.5	ug/m3		6000

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### Page 1 of 1

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.028-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 • 16.04.2025

Sampling Location . NEAR EXTERNAL COATING FL-3

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	132.38	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	936.05	ug/m3		10000

### Per pro SGS India Private Ltd

Sumay Bong Suman Bera

**Authorized Signatory** 

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

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE25-000718.029-A 26/04/2025 Report No **Issue Date** : KE25-000718 **ULR No** TC704725100001050F JOE No

KER0000234953 Report Control No

Customer Provided Information

: WORKZONE AIR QUALITY MONITORING Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name** 

METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

721301 **Postal Code** INDIA Country

WORKZONE AIR QUALITY MONITORING Sample Description

Sampling Date 17.04.2025

Sampling Location NEAR ZINC COATING FL-4(DIP-2)

SO-IN-MUL-TE-176 Sampling Method

Lab Provided Information

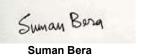
WORKZONE Sample Type 19/04/2025 Received

19/04/2025 - 26/04/2025 Test Start/End Date

#### **NABL Accredited Tests**

Analysis	Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	ind Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxide	e (SO2)	IS 5182 (Part 02): 2006	14.9	ug/m3		5000
Nitrogen Dioxid	e (NO2)	IS 5182 (Part 06) : 2006	36.4	ug/m3		6000

### Per pro SGS India Private Ltd



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

#### Page 1 of 1

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.029-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 . 17.04.2025

Sampling Location . NEAR ZINC COATING FL-4(DIP-2)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	187.74	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	437.05	ug/m3		10000

### Per pro SGS India Private Ltd

Sumay Beng Suman Bera

**Authorized Signatory** 

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

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TC-7047

#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.030-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001051F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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 . 17.04.2025

Sampling Location . NEAR ZINC COATING FL-5 (DIP 2)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

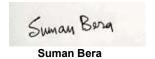
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis	alysis Me	nalysis Method Result	Result	Unit	•	ment/Limit RY ACT 1948	
					Min	Max	
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality				
DISCIPLINE:	CHEMICAL						
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	22.9	ug/m3		5000	
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	51.3	ug/m3		6000	

### Per pro SGS India Private Ltd



### **Authorized Signatory**

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

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.030-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 . 17.04.2025

Sampling Location . NEAR ZINC COATING FL-5 (DIP 2)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	222.36	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	2183.92	ug/m3		10000

### Per pro SGS India Private Ltd

Suman Bera

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

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.031-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001052F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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** • 17.04.2025

Sampling Location . NEAR MAGNESIUM CONVERTOR(DIP-2)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

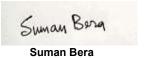
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	ind Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxide	e (SO2)	IS 5182 (Part 02): 2006	25.2	ug/m3		5000
Nitrogen Dioxid	e (NO2)	IS 5182 (Part 06) : 2006	55.6	ug/m3		6000

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### Page 1 of 1

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.031-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 . 17.04.2025

Sampling Location . NEAR MAGNESIUM CONVERTOR(DIP-2)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	383.34	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1593.62	ug/m3		10000

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Sumay Bong Suman Bera

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#### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.032-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001053F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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** • 17.04.2025

Sampling Location . NEAR LADDLE PREHEATING AREA(DIP-1)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

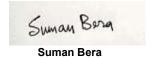
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method Result	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	Work Environment and Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxide (SO2)		IS 5182 (Part 02): 2006	27.1	ug/m3		5000
Nitrogen Dioxide (NO2)		IS 5182 (Part 06) : 2006	58.4	ug/m3		6000

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#### Page 1 of 1

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.032-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 . 17.04.2025

Sampling Location . NEAR LADDLE PREHEATING AREA(DIP-1)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method Result		Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	251.16	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	2219.24	ug/m3		10000

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#### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000718.033-A
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001054F
 JOE No
 : KE25-000718

Report Control No : KER0000234953

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 . 18.04.2025

Sampling Location : NEAR CCP-4 AREA Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

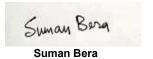
Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method Result	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a				
DISCIPLINE:	CHEMICAL					
Sulphur Dioxide (SO2)		IS 5182 (Part 02): 2006	12.6	ug/m3		5000
Nitrogen Dioxide (NO2)		IS 5182 (Part 06) : 2006	29.4	ug/m3		6000

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### Page 1 of 1

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000718.033-B Issue Date : 26/04/2025

JOE No : KE25-000718

Report Control No : KER0000234953

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 . 18.04.2025

Sampling Location : NEAR CCP-4 AREA
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### Non-Accredited tests

Analysis	Method Result		Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	95.60	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	193.82	ug/m3		10000

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#### Page 1 of 1

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# Annexure-2

# CONTINUOUS AMBIENT AIR QUALITY MONITORING STATION









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

Month	Apr'25	May'25	Jun'25	Jul'25	Aug'25	Sep'25	Limit
PM <sub>10</sub> (μg/m³)	45.4	37.9	31.0	32.0	30.3	27.6	100
PM <sub>2.5</sub> (μg/m³)	24.0	20.0	15.3	16.9	17.5	12.4	60
SO <sub>2</sub> (μg/m³)	46.1	51.7	20.2	11.2	11.0	9.7	80
NO <sub>2</sub> (μg/m³)	20.0	15.1	15.1	15.2	12.8	13.6	80
CO (mg/m³)	0.46	0.49	0.46	0.68	0.49	0.49	2
O <sub>3</sub> (μg/m³)	10.4	8.47	8.5	6.62	1.0	1.60	180

		Online Stack Emiss	ion (CEMS)	Monthly A	verage Rep	ort		
		Month	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
SL. No	Unit	Location/Stack connected to	Dust/PM (mg/Nm³)	Dust/PM (mg/Nm³)	Dust/PM (mg/Nm³)	Dust/PM (mg/Nm³)	Dust/PM (mg/Nm³)	Dust/PM (mg/Nm³)
1		MBF Stove – I	2.70	3.75	3.65	3.61	3.46	3.53
2		MBF Stove – II	3.63	1.40	2.79	1.00	3.65	15.98
3		MBF#1- Casthouse Fume extraction System	2.17	2.10	2.77	2.84	3.69	4.15
4		CPP#2- 4 MW Boiler (BFG fired)	4.57	3.24	5.77	3.35	4.02	3.19
5		Sinter Head ESP	27.13	30.00	20.07	19.92	24.01	32.52
6	Iron Making	Sinter Tail ESP	19.01	38.14	11.78	11.34	20.47	35.91
7	iron waking	RFP bag filter Sinter plant	10.07	9.57	14.91	6.04	3.37	3.62
8		Flux crasher stack	2.36	2.48	3.10	1.77	2.04	1.61
9		RMHS-1 Sinter storage bin	2.17	3.18	2.60	13.29	13.37	10.11
10		RMHS-2 Sinter storage bin	9.40	5.46	2.49	2.48	10.50	8.72
11		CPP#4- 15 MW ( WHRB based)	17.68	5.61	8.14	13.58	8.95	15.80
12		MBF#2- Casthouse Fume extraction System	6.49	10.80	5.61	6.20	1.82	3.99
13		MGT & IF (Common) Stack.	2.47	3.87	3.78	4.74	8.15	6.52
14		Zn Coating Stack FL-1	1.53	1.41	1.39	1.23	1.34	1.47
15		Barrel & Socket Grinders Stack	3.13	2.41	3.03	2.91	3.05	3.23
16		Zn Coating Stack FL-2	7.03	7.82	9.27	12.70	8.48	8.69
17	Ductile Iron Pipe (Small Dia	Zn Coating Stack FL-3	6.67	9.14	8.64	2.86	4.67	9.29
18	Pipe Unit)	Annealing Furnace	1.76	1.04	2.15	2.06	1.17	3.41
19		Annealing WHR Boiler 8TPH	4.89	4.97	2.28	1.26	1.00	1.26
20		Sand cleaning system (core shop)	1.29	1.38	1.34	3.58	5.20	4.61
21		Tri Grinding bag filter FL2	5.26	4.96	4.87	4.92	5.18	5.62
22		Tri-grinding Bag filter FL3	1.48	1.21	1.61	1.29	1.25	1.63
23		Induction furnace Stack.	7.07	1.77	1.53	1.47	1.36	1.98
24		Magnesium Converter	2.57	3.43	3.78	3.50	2.80	3.13
25		Zn Coating Stack FL-4	3.03	4.14	2.68	2.74	3.77	1.98
26		Tri-grinding Bag filter FL4	10.88	9.92	6.64	8.53	10.61	7.31
27		Zn Coating Stack FL-5	1.06	1.30	1.61	2.27	4.01	3.21
28	Ductile Iron Pipe (Large Dia Pipe Unit)	Tri-grinding Bag filter FL5	3.27	2.63	2.28	2.77	2.01	2.85
29		Annealing Furnace Air Chimney flue gas exit	1.11	1.76	2.27	2.95	3.42	8.58
30		Annealing Furnace BFG Chimney	2.96	2.49	1.00	1.24	1.31	1.26
31		Boiler 8TPH	1.00	1.00	1.00	1.00	1.00	1.00
32		Sand cleaning system (core shop)	2.98	2.82	3.12	2.77	3.28	7.26
33		Mould shop	4.27	3.93	6.72	3.40	3.70	2.56







SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE25-000720.001 28/04/2025 Report No **Issue Date** KE25-000720 JOE No

KER0000235041 **Report Control No** 

**Customer Provided Information** 

**ULR No** 

: FLUE GAS Sample Described by Customer as • TATA STEEL LIMITED **Customer Name** 

. METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

TC704725100000944F

PASCHIM MEDINIPUR City

: 721301 **Postal Code** : INDIA Country : FLUE GAS Sample Description

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

· 11.04.2025; 14:30 TO 15:20 HRS Sampling Date

Sampling Location . MBF-2 STOVE STACK

: MBF-2 STOVE Stack Connected to

: COMBUSTION OF BFG **Emission Due to** 

: BF GAS **Fuel Used** : 45 M Height of Stack from

**Ground Level** 

Port Hole Available : 02 Diameter of Stack : 2 M : MS Construction

**Material of Stack** 

: Circular Type of Stack : 36.2 M Height of Sampling

Point from GL

· Yes Platform & Ladder at

Stack

**Lab Provided Information** 

Sample Type **FLUE GAS** 21/04/2025 Received

: 21/04/2025 - 28/04/2025 Test Start/End Date

### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxid DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	25.6	%		
Moisture		IS 11255 Part 3:1985	2.83	%		

### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000720.001 Issue Date : 28/04/2025

**ULR No** : TC704725100000944F **JOE No** : KE25-000720

Report Control No : KER0000235041

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	•	ment/Limit CB (CTO)
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Temperature	IS 11255 Part 3:1985	170	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	11.23	m/s		
Flow rate	IS 11255 Part 3:1985	82448	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	4.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	32.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	30.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	0.5	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	4.37	mg/Nm3		100

Remark: All parameters are done at site except PM.

Per pro SGS India Private Ltd

WONAJ KO

**Authorized Signatory** 

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE25-000720.002 28/04/2025 Report No **Issue Date** 

KE25-000720 JOE No **ULR No** TC704725100000945F

KER0000235041 **Report Control No** 

**Customer Provided Information** 

: FLUE GAS Sample Described by Customer as

• TATA STEEL LIMITED **Customer Name** 

. METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

: 721301 **Postal Code** : INDIA Country

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

: FLUE GAS Sample Description

. 15/04/2025; 10:50 TO 11:30 AM Sampling Date

BARREL & SOCKET GRINDING FL-1 STACK Sampling Location

BARREL & SOCKET GRINDING FL-1 Stack Connected to

: DEDUSTING PROCESS **Emission Due to** 

: 30M

Height of Stack from

**Ground Level** 

Port Hole Available : 02

 BAG FILTER Pollution Control

Device

Diameter of Stack . 0.9 M

Construction · MS

**Material of Stack** 

: Circular Type of Stack · 22.M Height of Sampling

Point from GL

: Yes Platform & Ladder at

Stack

**Lab Provided Information** 

**FLUE GAS** Sample Type 21/04/2025 Received

21/04/2025 - 28/04/2025 Test Start/End Date

### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	(CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**ULR No** : TC704725100000945F **JOE No** : KE25-000720

Report Control No : KER0000235041

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.78	%		
Temperature	IS 11255 Part 3:1985	42	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	7.56	m/s		
Flow rate	IS 11255 Part 3:1985	15817	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.8	%		
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	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	6.13	mg/Nm3		100

Remark: All parameters are done at site except PM.

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**MONAJ ROY** 

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

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**ULR No** : TC704725100000946F **JOE No** : KE25-000720

Report Control No : KER0000235041

**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 : 15/04/2025; 12.20 TO 13:00 PM Sampling Location : ZINC COATING M/C FL-1 STACK

Stack Connected to : ZINC COATING M/C FL-1
Emission Due to : DEDUSTING PROCESS

: 36M

Height of Stack from

**Ground Level** 

Port Hole Available : 01

Pollution Control : BAG FILTER

Device

Diameter of Stack : 0.9 M Construction : MS

Material of Stack

Type of Stack : Circular Height of Sampling : 24 M

Point from GL

Platform & Ladder at : Yes

Stack

Lab Provided Information

Sample Type : FLUE GAS Received : 21/04/2025

Test Start/End Date : 21/04/2025 - 28/04/2025

### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

#### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**ULR No** : TC704725100000946F **JOE No** : KE25-000720

Report Control No : KER0000235041

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.37	%		
Temperature	IS 11255 Part 3:1985	42	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	4.18	m/s		
Flow rate	IS 11255 Part 3:1985	8779	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.6	%		
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	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	5.46	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 : KE25-000720.004 Issue Date : 28/04/2025

**ULR No** : TC704725100000947F **JOE No** : KE25-000720

Report Control No : KER0000235041

**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

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

Sample Description : FLUE GAS

Sampling Date : 15/04/2025; 16.00 TO 16.40 HRS
Sampling Location : ZING COATING M/C FL-2 STACK
Stack Connected to : ZING COATING M/C FL-2

Emission Due to : DEDUSTING PROCESS

: 30 M

Height of Stack from

**Ground Level** 

Port Hole Available 2

Pollution Control BAG FILTER &CYCLONE SEPERATOR

Device

Diameter of Stack : 1.2M
Construction : MS

Material of Stack

Type of Stack : Circular Height of Sampling : 22 M

Point from GL

Platform & Ladder at : Yes

Stack

Lab Provided Information

Sample Type : FLUE GAS Received : 21/04/2025

Test Start/End Date : 21/04/2025 - 28/04/2025

### **NABL Accredited Tests**

Analysis		Method	Result	Unit	•	ment/Limit PCB (CTO)
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	(CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

#### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000720.004 Issue Date : 28/04/2025

**ULR No** : TC704725100000947F **JOE No** : KE25-000720

Report Control No : KER0000235041

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	1.57	%		
Temperature	IS 11255 Part 3:1985	40	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	5.94	m/s		
Flow rate	IS 11255 Part 3:1985	22504	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.9	%		
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	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	29.21	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 : KE25-000720.005 Issue Date : 28/04/2025

ULR No : TC704725100000948F JOE No : KE25-000720

Report Control No : KER0000235041

**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

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

Sample Description : FLUE GAS

Sampling Date : 16/04/2025; 11:40 TO 12:00 PM Sampling Location : WHR BOILER STACK DIP 1

: 30 M

Stack Connected to . WHR BOILER

Emission Due to : ANNEALING FURNACE WASTE HEAT

Height of Stack from

**Ground Level** 

Port Hole Available : 02
Pollution Control : NIL

Device

Diameter of Stack : 1.1M
Construction : MS

Material of Stack

Type of Stack : Circular Height of Sampling : 20 M

Point from GL

Platform & Ladder at : Yes

Stack

**Lab Provided Information** 

Sample Type : FLUE GAS Received : 21/04/2025

Test Start/End Date : 21/04/2025 - 28/04/2025

### **NABL Accredited Tests**

Analysis		Method	Result	Unit	-	ment/Limit PCB (CTO)
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	11.4	%		

#### Page 1 of 2

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JOE No



KE25-000720

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000720.005 Issue Date : 28/04/2025

**ULR No** : TC704725100000948F

KER0000235041

#### **NABL Accredited Tests**

**Report Control No** 

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.78	%		
Temperature	IS 11255 Part 3:1985	186	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	8.55	m/s		
Flow rate	IS 11255 Part 3:1985	18333	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	8.2	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	28.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	16.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	4.20	mg/Nm3		100

Remark: All parameters are done at site except PM.

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704725100000949F JOE No : KE25-000720

Report Control No : KER0000235041

**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

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

Sample Description : FLUE GAS

Sampling Date : 16/04/2025; 12.30 TO 13.10 PM : ANNEALING FURNACE STACK

: 30.0 M

Stack Connected to : ANNEALING FURNACE Emission Due to : COMBUSTION OF BFG

Height of Stack from

**Ground Level** 

Port Hole Available : 02
Pollution Control : NIL

Pollution Cor

Device
Diameter of Stack : 1.2 M
Construction : MS

Material of Stack

Type of Stack : Circular Height of Sampling : 20 M

Point from GL

Platform & Ladder at : Yes

Stack

Lab Provided Information

Sample Type : FLUE GAS Received : 21/04/2025

Test Start/End Date : 21/04/2025 - 28/04/2025

### **NABL Accredited Tests**

Analysis		Method	Result	Unit	•	ment/Limit CB (CTO)
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	13.2	%		

#### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**ULR No** : TC704725100000949F **JOE No** : KE25-000720

Report Control No : KER0000235041

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.78	%		
Temperature	IS 11255 Part 3:1985	84	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	7.30	m/s		
Flow rate	IS 11255 Part 3:1985	23953	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	6.6	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	18.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	8.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	5.95	mg/Nm3		100

Remark: All parameters are done at site except PM.

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704725100000950F JOE No : KE25-000720

Report Control No : KER0000235041

**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

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

Sample Description : FLUE GAS

Sampling Date <u>14/04/2025</u>; 14.30 TO 15.20 PM

Sampling Location : CPP 2 STACK
Stack Connected to : BOILER NO 2

Emission Due to : COMBUSTION OF BFG

Capacity : 22 TPH
Running Load : 2350KW

Fuel Used : BFG (BLAST FURNACE GAS)

40.0 M

Fuel Consumption 22000 Nm3/Hr (BFG)

Height of Stack from

Ground Level Port Hole Available

: 01

Pollution Control : ESP

Device

Diameter of Stack 2.6 M

Construction : MS

**Material of Stack** 

Type of Stack : Circular Height of Sampling : 36 M

Point from GL

Platform & Ladder at : Yes

Stack

Lab Provided Information

Sample Type : FLUE GAS Received : 21/04/2025

Test Start/End Date : 21/04/2025 - 28/04/2025

**NABL Accredited Tests** 

Requirement/Limit
Analysis Method Result Unit WBPCB (CTO)
Min Max

### Page 1 of 2

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**ULR No** : TC704725100000950F **JOE No** : KE25-000720

Report Control No : KER0000235041

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Carbon Dioxide (CO2)	USEPA METHOD 3A	13.6	%		
DISCIPLINE: CHEMICAL					
Moisture	IS 11255 Part 3:1985	3.25	%		
Temperature	IS 11255 Part 3:1985	142	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	5.03	m/s		
Flow rate	IS 11255 Part 3:1985	66330	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	6.2	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	55.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	28.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	5.64	mg/Nm3		100

**Remark:** All parameters are done at site except PM.

Per pro SGS India Private Ltd

MONAJ ROY

**Authorized Signatory** 

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE25-000720.008 28/04/2025 Report No **Issue Date** 

KE25-000720 JOE No **ULR No** TC704725100000951F

KER0000235041 **Report Control No** 

**Customer Provided Information** 

: FLUE GAS Sample Described by Customer as

• TATA STEEL LIMITED **Customer Name** 

. METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

: 721301 **Postal Code** : INDIA Country

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

: FLUE GAS Sample Description

. 14/04/2025; 11:50 TO 12:30 PM Sampling Date

. MBF-1 STOVE STACK Sampling Location

: MBF-1 STOVE Stack Connected to

: COMBUSTION OF BFG **Emission Due to** 

: BF GAS **Fuel Used** : 45M Height of Stack from

**Ground Level** 

Port Hole Available : 02

Diameter of Stack : 2 M : MS Construction

**Material of Stack** 

: Circular Type of Stack : 36.2 M Height of Sampling

Point from GL

· Yes Platform & Ladder at

Stack

**Lab Provided Information** 

Sample Type **FLUE GAS** 21/04/2025 Received

: 21/04/2025 - 28/04/2025 Test Start/End Date

### **NABL Accredited Tests**

Analysis		Method	Result	Unit	•	ment/Limit CB (CTO)
				Min	Max	
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxid DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	24.6	%		
Moisture		IS 11255 Part 3:1985	3.73	%		

#### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000720.008 Issue Date : 28/04/2025

**ULR No** : TC704725100000951F **JOE No** : KE25-000720

Report Control No : KER0000235041

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Temperature	IS 11255 Part 3:1985	172	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	12.80	m/s		
Flow rate	IS 11255 Part 3:1985	92571	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	5.2	%		
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	0.5	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	20.07	mg/Nm3		100

Remark: All parameters are done at site except PM.

Per pro SGS India Private Ltd

**Authorized Signatory** 

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE25-000726.001 29/04/2025 Report No **Issue Date** 

KE25-000726 JOE No **ULR No** TC704725100000954F

KER0000235069 **Report Control No** 

**Customer Provided Information** 

**Customer Name** 

: FLUE GAS Sample Described by Customer as

• TATA STEEL LIMITED . METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

: 721301 **Postal Code** 

: INDIA Country : FLUE GAS Sample Description

: SO IN MULTE 176 Sampling Method

. 14.04.2025; 15:25 TO 16:10HRS Sampling Date . DG SET NO. 1 (1250 KVA) Sampling Location : DG SET NO. 1 ( 1250 KVA) Stack Connected to

: BURNING OF HSD **Emission Due to** 

Capacity . 1250KVA : 650KVA Running Load Fuel Used HSD

**Fuel Consumption** 120 LTR/HR · 19.5 M Height of Stack from

**Ground Level** 

Port Hole Available : ONE : 0.2M Diameter of Stack : MS Construction

**Material of Stack** 

: Circular Type of Stack : 12.5M Height of Sampling

Point from GL

Platform & Ladder at

Stack

Lab Provided Information

**FLUE GAS** Sample Type 21/04/2025 Received

21/04/2025 - 28/04/2025 **Test Start/End Date** 

### **NABL Accredited Tests**

Requirement/Limit WBPCB (CTO) Unit **Analysis** Method Result Max **Atmospheric Pollution** Stack emission **NABL Group:** 

### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**Report No** : KE25-000726.001 **Issue Date** : 29/04/2025

ULR No : TC704725100000954F JOE No : KE25-000726

Report Control No : KER0000235069

#### **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	2.33	%		
Temperature	IS 11255 Part 3:1985	355	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	21.170	m/s		
Flow rate	IS 11255 Part 3:1985	1102	Nm3/Hrs		
Carbon Dioxide (CO2)	USEPA METHOD 3A	7.8	%		
Oxygen (O2)	USEPA (Method 3A)	11.9	%		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	18.00	mg/Nm3		
Particulate Matter (PM)	IS:11255 (Part-1&3):1985	24.45	mg/Nm3		150
Nitrogen Oxides	USEPA METHOD (7E)	280.0	mg/Nm3		

Remark: All parameters Analysed at site except PM.

Per pro SGS India Private Ltd

Suman Borg

Suman Bera

Chemist

**Authorized Signatory** 

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000726.002 Issue Date : 29/04/2025

ULR No : TC704725100000955F JOE No : KE25-000726

Report Control No : KER0000235069

**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
 : 14.04.2025; 16.20 TO 17:10HRS

 Sampling Location
 : DG SET NO. 2(1250 KVA)

 Stack Connected to
 : DG SET NO. 2(1250 KVA)

: MS

Emission Due to : BURNING OF HSD

 Capacity
 : 1250KVA

 Running Load
 : 650KVA

 Fuel Used
 : HSD

 Fuel Consumption
 : 120LTR/HR

Height of Stack from : 19.5 M

Ground Level

Port Hole Available : ONE Diameter of Stack : 0.2M

Construction

Material of Stack
Type of Stack : Circular
Height of Sampling : 12.5M

Point from GL

Platform & Ladder at : Yes

Stack

**Lab Provided Information** 

Sample Type : FLUE GAS

Received : 21/04/2025

Test Start/End Date : 21/04/2025 - 28/04/2025

**NABL Accredited Tests** 

Requirement/Limit

Analysis Method Result Unit WBPCB (CTO)

Min Max

NABL Group: Atmospheric Pollution Stack emission

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000726.002 Issue Date : 29/04/2025

**ULR No** : TC704725100000955F **JOE No** : KE25-000726

Report Control No : KER0000235069

#### **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	1.41	%		
Temperature	IS 11255 Part 3:1985	360	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	21.380	m/s		
Flow rate	IS 11255 Part 3:1985	1115	Nm3/Hrs		
Carbon Dioxide (CO2)	USEPA METHOD 3A	7.5	%		
Oxygen (O2)	USEPA (Method 3A)	12.2	%		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	18.00	mg/Nm3		
Particulate Matter (PM)	IS:11255 (Part-1&3):1985	19.66	mg/Nm3		150
Nitrogen Oxides	USEPA METHOD (7E)	360.0	mg/Nm3		

Remark: All parameters Analysed at site except PM.

Per pro SGS India Private Ltd

Suman Borg

Suman Bera

Chemist

**Authorized Signatory** 

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

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE25-000726.003 29/04/2025 Report No **Issue Date** 

KE25-000726 JOE No **ULR No** TC704725100000956F

KER0000235069 **Report Control No** 

**Customer Provided Information** 

**Customer Name** 

: FLUE GAS Sample Described by Customer as • TATA STEEL LIMITED

. METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

: 721301 **Postal Code** : INDIA Country : FLUE GAS Sample Description

: SO IN MULTE 176 Sampling Method

. 18/04/2025; 13:00 TO 13:40HRS Sampling Date

. DG SET (600 KVA) Sampling Location : DG SET (600 KVA) Stack Connected to : BURNING OF HSD **Emission Due to** 

Capacity 600KVA : 300KVA Running Load Fuel Used HSD

40-50 LTR/HR **Fuel Consumption** 

Height of Stack from

**Ground Level** Port Hole Available : 9.0M : ONE

Diameter of Stack : 0.15M : MS Construction

**Material of Stack** 

: Circular Type of Stack : 5.0M Height of Sampling

Point from GL

: Yes Platform & Ladder at

Stack

Lab Provided Information

**FLUE GAS** Sample Type 21/04/2025 Received

21/04/2025 - 28/04/2025 **Test Start/End Date** 

### **NABL Accredited Tests**

Requirement/Limit WBPCB (CTO) Unit **Analysis** Method Result Min Max **Atmospheric Pollution** Stack emission **NABL Group:** 

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704725100000956F JOE No : KE25-000726

Report Control No : KER0000235069

#### **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	1.77	%		
Temperature	IS 11255 Part 3:1985	260	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	18.140	m/s		
Flow rate	IS 11255 Part 3:1985	630	Nm3/Hrs		
Carbon Dioxide (CO2)	USEPA METHOD 3A	6.8	%		
Oxygen (O2)	USEPA (Method 3A)	12.6	%		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	8.00	mg/Nm3		
Particulate Matter (PM)	IS:11255 (Part-1&3):1985	15.17	mg/Nm3		150
Nitrogen Oxides	USEPA METHOD (7E)	275.0	mg/Nm3		

Remark: All parameters Analysed at site except PM.

Per pro SGS India Private Ltd

Suman Berg

Suman Bera

Chemist

**Authorized Signatory** 

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE25-000726.004 29/04/2025 Report No **Issue Date** 

KE25-000726 JOE No **ULR No** TC704725100000957F

KER0000235069 **Report Control No** 

**Customer Provided Information** 

: FLUE GAS Sample Described by Customer as

• TATA STEEL LIMITED **Customer Name** 

. METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

: 721301 **Postal Code** : INDIA Country : FLUE GAS Sample Description

: SO IN MULTE 176 Sampling Method

. 18/04/2025; 12:00 TO 13:00 HRS Sampling Date

: CPP4 STACK Sampling Location : CPP-4 STACK Stack Connected to

: COKE OVEN WASTE HEAT & BFG **Emission Due to** 

: 15MW Capacity : 4 MW Running Load

BFG(BLAST FURNACE GAS) Fuel Used

. 40.0M

20000 NM3/H **Fuel Consumption** 

Height of Stack from

**Ground Level** 

Port Hole Available

: ESP **Pollution Control** 

Device

: 2.15M

Diameter of Stack Construction

: MS

**Material of Stack** 

: Circular Type of Stack : 30M

Height of Sampling Point from GL

Platform & Ladder at

: Yes

Stack

**Lab Provided Information** 

FLUE GAS Sample Type Received 21/04/2025

Test Start/End Date 21/04/2025 - 28/04/2025

**NABL Accredited Tests** 

Requirement/Limit WBPCB (CTO) Unit **Analysis** Method Result Min Max

#### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000726.004 Issue Date : 29/04/2025

**ULR No** : TC704725100000957F **JOE No** : KE25-000726

Report Control No : KER0000235069

#### **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	2.34	%		
Temperature	IS 11255 Part 3:1985	142	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	12.130	m/s		
Flow rate	IS 11255 Part 3:1985	110393	Nm3/Hrs		
Carbon Dioxide (CO2)	USEPA METHOD 3A	7.4	%		
Oxygen (O2)	USEPA (Method 3A)	12.4	%		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	70.00	mg/Nm3		
Particulate Matter (PM)	IS:11255 (Part-1&3):1985	19.03	mg/Nm3		150
Nitrogen Oxides	USEPA METHOD (7E)	66.0	mg/Nm3		

Remark: All parameters Analysed at site except PM.

Per pro SGS India Private Ltd

Suman Borg

Suman Bera

Chemist

**Authorized Signatory** 

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

### Page 2 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE25-000727.001 28/04/2025 Report No **Issue Date** 

KE25-000727 JOE No **ULR No** TC704725100000940F

KER0000235029 **Report Control No** 

**Customer Provided Information** 

: FLUE GAS Sample Described by Customer as

• TATA STEEL LIMITED **Customer Name** 

. METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

: 721301 **Postal Code** : INDIA Country

: 16.04.2025;10:10 TO 10:50 AM Sampling Date . ZINC COATING M/C FL-3 STACK Sampling Location

Sampling Method SO-IN-MUL-TE-176

. ZINC COATING M/C FL-3 STACK Stack Connected to

: DEDUSTING PROCESS **Emission Due to** 

Height of Stack from

**Ground Level** 

: 30 M : 24 M

Height of Sampling Point from GL

Port Hole Available

: 02

**Pollution Control** 

: BAG FILTER AND CYCLONE SEPERATOR

Device

Diameter of Stack : 1.1M : MS Construction

**Material of Stack** 

Type of Stack : Circular : Yes Platform & Ladder at

Sample Description

Stack

· FLUE GAS

**Lab Provided Information** 

**FLUE GAS** Sample Type 21/04/2025 Received

21/04/2025 - 28/04/2025 Test Start/End Date

### **NABL Accredited Tests**

Analysis		Method	Result	Unit	-	ment/Limit CB (CTO)
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	(CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000727.001 Issue Date : 28/04/2025

ULR No : TC704725100000940F JOE No : KE25-000727

Report Control No : KER0000235029

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.41	%		
Temperature	IS 11255 Part 3:1985	44	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	6.51	m/s		
Flow rate	IS 11255 Part 3:1985	20291	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.8	%		
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	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	12.57	mg/Nm3		50

Remark: All parameters are done at site except PM

Per pro SGS India Private Ltd

**Authorized Signatory** 

**MONAJ ROY** 

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE25-000727.002 28/04/2025 Report No **Issue Date** 

KE25-000727 JOE No **ULR No** TC704725100000941F

KER0000235029 **Report Control No** 

**Customer Provided Information** 

: FLUE GAS Sample Described by Customer as

• TATA STEEL LIMITED **Customer Name** 

. METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

: 721301 **Postal Code** : INDIA Country

: 17.04.2025;11:30 AM TO 12:10 PM Sampling Date • INDUCTION FURNACE STACK (DIP-2) Sampling Location

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

: INDUCTION FURNACE BAG FILTER Stack Connected to

: DEDUSTING PROCESS **Emission Due to** 

Height of Stack from

**Ground Level** 

: 36M

: 24M Height of Sampling

Point from GL

: 02

Port Hole Available **Pollution Control** 

: BAG FILTER AND CYCLONE SEPERATOR

Device

Diameter of Stack : 1.1M : MS Construction

**Material of Stack** 

Type of Stack : Circular : Yes

Platform & Ladder at

Stack

Sample Description · FLUE GAS

**Lab Provided Information** 

**FLUE GAS** Sample Type 21/04/2025 Received

21/04/2025 - 28/04/2025 Test Start/End Date

### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max	
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

#### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**ULR No** : TC704725100000941F **JOE No** : KE25-000727

Report Control No : KER0000235029

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.41	%		
Temperature	IS 11255 Part 3:1985	49	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	6.73	m/s		
Flow rate	IS 11255 Part 3:1985	20647	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.8	%		
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	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	6.00	mg/Nm3		50

Remark: All parameters are done at site except PM

Per pro SGS India Private Ltd

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE25-000727.003 28/04/2025 Report No **Issue Date** 

KE25-000727 JOE No **ULR No** TC704725100000942F

KER0000235029 **Report Control No** 

**Customer Provided Information** 

: FLUE GAS Sample Described by Customer as • TATA STEEL LIMITED **Customer Name** 

. METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

: 721301 **Postal Code** : INDIA Country

. 17/04/2025; 14:40 TO 15:20 PM Sampling Date

. ANNEALING FURNACE -2 AIR CHIMNEY (DIP-2) Sampling Location

Sampling Method SO-IN-MUL-TE-176

Stack Connected to · ANNEALING FURNACE -2 AIR CHIMNEY

: COMBUSTION OF BFG **Emission Due to** 

Height of Stack from

**Ground Level** 

: 36M

: 30M Height of Sampling

Point from GL

Port Hole Available : 02 **Pollution Control** : NIL

Device

Diameter of Stack · 1.3M : MS Construction

**Material of Stack** 

: Circular Type of Stack : Yes

Platform & Ladder at

Stack

Sample Description · FLUE GAS

**Lab Provided Information** 

**FLUE GAS** Sample Type 21/04/2025 Received

21/04/2025 - 28/04/2025 Test Start/End Date

### **NABL Accredited Tests**

Analysis		Method	Result	Min Max		
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide	e (CO2) CHEMICAL	USEPA METHOD 3A	11.2	%		

### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704725100000942F JOE No : KE25-000727

Report Control No : KER0000235029

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.78	%		
Temperature	IS 11255 Part 3:1985	94	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	8.27	m/s		
Flow rate	IS 11255 Part 3:1985	30976	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	8.6	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	33.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	24.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	13.25	mg/Nm3		50

Remark: All parameters are done at site except PM

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000728.001 Issue Date : 29/04/2025

ULR No : TC704725100000996F JOE No : KE25-000728

Report Control No : KER0000235075

**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

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

Sample Description : FLUE GAS

Sampling Date : 11/04/2025; 15:30 PM TO 16:15 PM Sampling Location : MBF-2 CAST HOUSE FES STACK

Stack Connected to . MBF-2 CAST HOUSE

Emission Due to : EXTRACTION OF CAST HOUSE(MBF # 2) FUMES

Height of Stack from : 32.0 M

**Ground Level** 

Port Hole Available . 01

Pollution Control : BAG FILTER

Device

Diameter of Stack : 2.3 M Construction : MS

Material of Stack

Type of Stack : Circular Height of Sampling : 19 M

Point from GL

Platform & Ladder at : Yes

Stack

Lab Provided Information

Sample Type : FLUE GAS Received : 21/04/2025

Test Start/End Date : 21/04/2025 - 28/04/2025

### **NABL Accredited Tests**

Analysis		Method	Result	Unit	•	ment/Limit PCB (CTO)
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	(CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704725100000996F JOE No : KE25-000728

Report Control No : KER0000235075

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.01	%		
Temperature	IS 11255 Part 3:1985	45	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	8.24	m/s		
Flow rate	IS 11255 Part 3:1985	112271	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.6	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.6	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	15.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate matter (PM)	IS 11255 (Part 01) : 1985.	6.4	mg/Nm3		50

Remark: All parameters analyzed at site except PM.

Per pro SGS India Private Ltd

MONAJ ROY

**Authorized Signatory** 

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE25-000728.002 29/04/2025 Report No **Issue Date** 

KE25-000728 JOE No **ULR No** TC704725100000997F

KER0000235075 **Report Control No** 

**Customer Provided Information** 

: FLUE GAS Sample Described by Customer as

• TATA STEEL LIMITED **Customer Name** 

. METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

: PASCHIM MEDINIPUR City

: 721301 **Postal Code** : INDIA Country

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

: FLUE GAS Sample Description

. 15/04/2025; 15:20 PM TO 16:00 PM Sampling Date . BITUMEN COATING SDP FL-2 Sampling Location . BITUMEN COATING SDP Stack Connected to : DEDUSTING PROCESS **Emission Due to** : 36.0 M

Height of Stack from

**Ground Level** 

Port Hole Available : 01

BAG FILTER & WET SCRUBBER Pollution Control

Device

Diameter of Stack . 0.6 M Construction · MS

**Material of Stack** 

: Circular Type of Stack : 25 M Height of Sampling

Point from GL

: Yes Platform & Ladder at

Stack

**Lab Provided Information** 

**FLUE GAS** Sample Type 21/04/2025 Received

21/04/2025 - 28/04/2025 Test Start/End Date

### **NABL Accredited Tests**

Analysis		Method	Result	Unit	•	ment/Limit CB (CTO)
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000728.002 Issue Date : 29/04/2025

**ULR No** : TC704725100000997F **JOE No** : KE25-000728

Report Control No : KER0000235075

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.19	%		
Temperature	IS 11255 Part 3:1985	36	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	13.40	m/s		
Flow rate	IS 11255 Part 3:1985	13195	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.7	%		
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 01) : 1985.	4.4	mg/Nm3		50

Remark: All parameters analyzed at site except PM.

Per pro SGS India Private Ltd

**Authorized Signatory** 

**MONAJ ROY** 

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704725100000998F JOE No : KE25-000728

Report Control No : KER0000235075

**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

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

Sample Description : FLUE GAS

Sampling Date : 16/04/2025; 10.55AM TO 11.45 AM
Sampling Location : TRI GRINDING FL-3 STACK
Stack Connected to : TRI GRINDING FL-3 BAG FILTER

: 30.0 M

Emission Due to : DEDUSTING PROCESS

Height of Stack from

**Ground Level** 

Port Hole Available : 02

Pollution Control : BAG FILTER

Device

Diameter of Stack : 0.6 M Construction : MS

Material of Stack

Type of Stack : Circular Height of Sampling : 22 M

Point from GL

Platform & Ladder at : Yes

Stack

Lab Provided Information

Sample Type : FLUE GAS Received : 21/04/2025

Test Start/End Date : 21/04/2025 - 28/04/2025

### **NABL Accredited Tests**

Analysis		Method	Result	Unit	•	ment/Limit PCB (CTO)
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	(CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

## Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**ULR No** : TC704725100000998F **JOE No** : KE25-000728

Report Control No : KER0000235075

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	•	ment/Limit CB (CTO)
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.78	%		
Temperature	IS 11255 Part 3:1985	42	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	6.88	m/s		
Flow rate	IS 11255 Part 3:1985	6396	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.8	%		
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 01) : 1985.	5.6	mg/Nm3		50

Remark: All parameters analyzed at site except PM.

Per pro SGS India Private Ltd

**Authorized Signatory** 

**MONAJ ROY** 

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE25-000728.004 29/04/2025 Report No **Issue Date** 

KE25-000728 JOE No **ULR No** TC704725100000999F

KER0000235075 **Report Control No** 

**Customer Provided Information** 

: FLUE GAS Sample Described by Customer as

• TATA STEEL LIMITED Customer Name

. METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

: 721301 **Postal Code** : INDIA Country

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

: FLUE GAS Sample Description

. 16/04/2025; 14.45 TO 15.30 PM Sampling Date

: 36.0 M

. ZING COATING M/C FL-4 STACK (DIP 2) Sampling Location

. ZING COATING M/C FL-4 Stack Connected to : DEDUSTING PROCESS **Emission Due to** 

Height of Stack from

**Ground Level** 

Port Hole Available : 02

. BAG FILTER AND CYCLONE SEPERATOR **Pollution Control** 

Device

: 1.65 M Diameter of Stack · MS Construction

**Material of Stack** 

: Circular Type of Stack : 26 M Height of Sampling

Point from GL

Platform & Ladder at

Stack

**Lab Provided Information** 

**FLUE GAS** Sample Type 21/04/2025 Received

21/04/2025 - 28/04/2025 Test Start/End Date

: Yes

### **NABL Accredited Tests**

Analysis		Method	Result	Requirement/Limit Unit WBPCB (CTO) Min Max %		
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	(CO2) CHEMICAL	USEPA METHOD 3A	6.92	%		

## Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000728.004 Issue Date : 29/04/2025

ULR No : TC704725100000999F JOE No : KE25-000728

Report Control No : KER0000235075

#### **NABL Accredited Tests**

Analysis	ysis Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.13	%		
Temperature	IS 11255 Part 3:1985	44	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	5.81	m/s		
Flow rate	IS 11255 Part 3:1985	40856	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	12.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.6	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	12.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate matter (PM)	IS 11255 (Part 01) : 1985.	17.7	mg/Nm3		50

Remark: All parameters analyzed at site except PM.

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE25-000728.005 29/04/2025 Report No **Issue Date** 

KE25-000728 JOE No **ULR No** TC704725100001000F

KER0000235075 **Report Control No** 

**Customer Provided Information** 

: FLUE GAS Sample Described by Customer as

• TATA STEEL LIMITED **Customer Name** 

. METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

: 721301 **Postal Code** : INDIA Country

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

: FLUE GAS Sample Description

: 16/04/2025; 14.00 TO 14:40 PM Sampling Date • TRI GRINDING FL-4 STACK(DIP 2) Sampling Location

. TRI GRINDING FL-4 Stack Connected to : DEDUSTING PROCESS **Emission Due to** 

Height of Stack from

: 36.0 M

**Ground Level** 

Port Hole Available : 02

 BAG FILTER Pollution Control

Device

Diameter of Stack . 0.9 M Construction · MS

**Material of Stack** 

: Circular Type of Stack : 28 M Height of Sampling

Point from GL

: Yes Platform & Ladder at

Stack

**Lab Provided Information** 

**FLUE GAS** Sample Type 21/04/2025 Received

21/04/2025 - 28/04/2025 Test Start/End Date

### **NABL Accredited Tests**

Analysis		Method	Min Stack emission			
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000728.005 Issue Date : 29/04/2025

ULR No : TC704725100001000F JOE No : KE25-000728

Report Control No : KER0000235075

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.46	%		
Temperature	IS 11255 Part 3:1985	43	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	9.99	m/s		
Flow rate	IS 11255 Part 3:1985	20897	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.8	%		
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 01) : 1985.	13.2	mg/Nm3		50

Remark: All parameters analyzed at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704725100001001F JOE No : KE25-000728

Report Control No : KER0000235075

**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

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

Sample Description : FLUE GAS

Sampling Date : 16/04/2025; 15.40 TO 16.20 PM
Sampling Location : CORE SHOP STACK (DIP 2)
Stack Connected to : CORE SHOP BAG FILTER
Emission Due to : DEDUSTING PROCESS

: 36.0 M

Height of Stack from

**Ground Level** 

Port Hole Available : 02

Pollution Control : BAG FILTER AND CYCLONE SEPERATOR

Device

Diameter of Stack : 0.9 M 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 : 21/04/2025

Test Start/End Date : 21/04/2025 - 28/04/2025

### **NABL Accredited Tests**

Analysis		Method	Result	Min Max		
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide	e (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000728.006 : ssue Date : 29/04/2025

ULR No : TC704725100001001F JOE No : KE25-000728

Report Control No : KER0000235075

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.53	%		
Temperature	IS 11255 Part 3:1985	40	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	5.59	m/s		
Flow rate	IS 11255 Part 3:1985	11796	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.7	%		
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 01) : 1985.	4.6	mg/Nm3		50

Remark: All parameters analyzed at site except PM.

Per pro SGS India Private Ltd

MONAJ ROY

**Authorized Signatory** 

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

## Page 2 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704725100001002F JOE No : KE25-000728

Report Control No : KER0000235075

**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

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

Sample Description : FLUE GAS

Sampling Date : 16.04.2025; 16:30 TO 17:20 PM
Sampling Location : MOULD SHOP STACK (DIP 2)
Stack Connected to : CORE SHOP BAG FILTER
Emission Due to : DEDUSTING PROCESS

: 36.0 M

Height of Stack from

**Ground Level** 

Port Hole Available : 02

Pollution Control : BAG FILTER AND CYCLONE SEPERATOR

Device

Diameter of Stack : 0.9 M 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 : 21/04/2025

Test Start/End Date : 21/04/2025 - 28/04/2025

### **NABL Accredited Tests**

Analysis		Method	Result	Unit	•	ment/Limit CB (CTO)
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

### Page 1 of 2

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JOE No



KE25-000728

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE25-000728.007 29/04/2025 Report No **Issue Date** 

KER0000235075 **Report Control No** 

TC704725100001002F

#### **NABL Accredited Tests**

**ULR No** 

Analysis	s Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.12	%		
Temperature	IS 11255 Part 3:1985	44	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	5.72	m/s		
Flow rate	IS 11255 Part 3:1985	11968	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.8	%		
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 01) : 1985.	6.4	mg/Nm3		50

Remark: All parameters analyzed at site except PM.

Per pro SGS India Private Ltd

**MONAJ ROY** 

**Authorized Signatory** 

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE25-000728.008 29/04/2025 Report No **Issue Date** 

KE25-000728 JOE No **ULR No** TC704725100001003F

KER0000235075 **Report Control No** 

**Customer Provided Information** 

: FLUE GAS Sample Described by Customer as

• TATA STEEL LIMITED Customer Name

. METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

: 721301 **Postal Code** : INDIA Country

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

: FLUE GAS Sample Description

. 17/04/2025; 14.00 TO 14.40 PM Sampling Date

: 36.0 M

· 1.3 M

. ZINC COATING M/C FL-5 STACK(DIP-2) Sampling Location

. ZINC COATING M/C FL-5 Stack Connected to : DEDUSTING PROCESS **Emission Due to** 

Height of Stack from

**Ground Level** 

Port Hole Available : 02

**Pollution Control** 

Device

• BAG FILTER AND CYCLONE SEPERATOR

Diameter of Stack

· MS Construction

**Material of Stack** 

: Circular Type of Stack : 26 M Height of Sampling

Point from GL

: Yes Platform & Ladder at

Stack

**Lab Provided Information** 

**FLUE GAS** Sample Type 21/04/2025 Received

21/04/2025 - 28/04/2025 Test Start/End Date

### **NABL Accredited Tests**

Analysis		Method	Result	Unit	•	ment/Limit CB (CTO)
					Min	Max
NABL Group:	Atmospheric Pollution	Stack emission				
Carbon Dioxide	(CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

## Page 1 of 2

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JOE No



KE25-000728

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000728.008 Issue Date : 29/04/2025

**ULR No** : TC704725100001003F

KER0000235075

#### **NABL Accredited Tests**

**Report Control No** 

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.41	%		
Temperature	IS 11255 Part 3:1985	45	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	6.08	m/s		
Flow rate	IS 11255 Part 3:1985	26383	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.8	%		
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 01): 1985.	5.0	mg/Nm3		50

Remark: All parameters analyzed at site except PM.

Per pro SGS India Private Ltd

**Authorized Signatory** 

**MONAJ ROY** 

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE25-000728.009 29/04/2025 Report No **Issue Date** 

KE25-000728 JOE No **ULR No** TC704725100001004F

KER0000235075 **Report Control No** 

**Customer Provided Information** 

: FLUE GAS Sample Described by Customer as

• TATA STEEL LIMITED **Customer Name** 

. METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

: 721301 **Postal Code** : INDIA Country

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

: FLUE GAS Sample Description

• 17.04.2025; 12.20 TO 13.00 PM Sampling Date . TRI GRINDING FL-5 STACK Sampling Location : TRI GRINDING FL-5 Stack Connected to

: 36.0 M

: DEDUSTING PROCESS **Emission Due to** 

Height of Stack from

**Ground Level** 

Port Hole Available : 02

Pollution Control

Device

BAG FILTER

· MS

: Circular

: 26 M

Diameter of Stack . 0.9 M

Construction

**Material of Stack** 

Type of Stack

Height of Sampling

Point from GL

Platform & Ladder at

: Yes Stack

**Lab Provided Information** 

**FLUE GAS** Sample Type 21/04/2025 Received

21/04/2025 - 28/04/2025 Test Start/End Date

### **NABL Accredited Tests**

Analysis		Method	Result	Unit	-	ment/Limit CB (CTO)
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704725100001004F JOE No : KE25-000728

Report Control No : KER0000235075

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	1.62	%		
Temperature	IS 11255 Part 3:1985	42	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	7.74	m/s		
Flow rate	IS 11255 Part 3:1985	16382	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.8	%		
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 01) : 1985.	4.8	mg/Nm3		50

Remark: All parameters analyzed at site except PM.

Per pro SGS India Private Ltd

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE25-000728.010 29/04/2025 Report No **Issue Date** 

KE25-000728 JOE No **ULR No** TC704725100001005F

KER0000235075 **Report Control No** 

**Customer Provided Information** 

: FLUE GAS Sample Described by Customer as

• TATA STEEL LIMITED Customer Name

. METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

: 721301 **Postal Code** : INDIA Country

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

: FLUE GAS Sample Description

• 17.04.2025; 10.40 TO 11.20 AM Sampling Date

: 36.0 M

. MAGNESIUM TREATMENT CONVERTER(DIP 2) Sampling Location . MAGNESIUM TREATMENT CONVERTER BAG FILTER Stack Connected to

: DEDUSTING PROCESS **Emission Due to** 

Height of Stack from

**Ground Level** 

Port Hole Available : 02

**Pollution Control** 

. BAG FILTER AND CYCLONE SEPERATOR

Device

Diameter of Stack · 1.1 M · MS Construction

**Material of Stack** 

: Circular Type of Stack : 24 M Height of Sampling

Point from GL

: Yes Platform & Ladder at

Stack

**Lab Provided Information** 

**FLUE GAS** Sample Type 21/04/2025 Received

21/04/2025 - 28/04/2025 Test Start/End Date

### **NABL Accredited Tests**

Analysis		Method	Result	Unit	-	ment/Limit CB (CTO)
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	(CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704725100001005F JOE No : KE25-000728

Report Control No : KER0000235075

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	1.68	%		
Temperature	IS 11255 Part 3:1985	44	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	9.82	m/s		
Flow rate	IS 11255 Part 3:1985	30830	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.8	%		
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 01): 1985.	4.9	mg/Nm3		50

Remark: All parameters analyzed at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000728.011 Issue Date : 29/04/2025

ULR No : TC704725100001006F JOE No : KE25-000728

Report Control No : KER0000235075

**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

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

Sample Description : FLUE GAS

Sampling Date : 15.04.2025; 16.50 TO 17.30 PM
Sampling Location : TRI GRINDING FL-2 STACK
Stack Connected to : TRI GRINDING FL-2 STACK
Emission Due to : DEDUSTING PROCESS

: 30.0 M

Height of Stack from

**Ground Level** 

Port Hole Available . 02

Pollution Control : BAG FILTER

Device

Diameter of Stack : 1.2 M Construction : MS

Material of Stack

Type of Stack : Circular Height of Sampling : 22 M

Point from GL

Platform & Ladder at : Yes

Stack

Lab Provided Information

Sample Type : FLUE GAS Received : 21/04/2025

Test Start/End Date : 21/04/2025 - 28/04/2025

### **NABL Accredited Tests**

Analysis		Method	Result	Unit	•	ment/Limit CB (CTO)
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000728.011 Issue Date : 29/04/2025

ULR No : TC704725100001006F JOE No : KE25-000728

Report Control No : KER0000235075

#### **NABL Accredited Tests**

Analysis	s Method	Result	Unit	Requirement/Limit WBPCB (CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	1.87	%		
Temperature	IS 11255 Part 3:1985	42	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	5.68	m/s		
Flow rate	IS 11255 Part 3:1985	21320	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.8	%		
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 01) : 1985.	8.2	mg/Nm3		50

Remark: All parameters analyzed at site except PM.

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MONAJ ROY

**Authorized Signatory** 

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## Page 2 of 2

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000729.001
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001062F
 JOE No
 : KE25-000729

Report Control No : KER0000235033

**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 : 11.04.2025; 11.00 TO 11.40 AM
Sampling Location : HEAD ESP STACK(SINTER PLANT)
Stack Connected to : HEAD ESP STACK(SINTER PLANT)

Emission Due to : COMBUSTION OF BFG(SINTER PRODUCTION)

Height of Stack from

Port Hole Available

**Ground Level** 

: 45.0 M : 02

Pollution Control : ESP

Device

· 2.3 M

Construction : MS

Material of Stack Type of Stack

Diameter of Stack

: Circular

Height of Sampling

: 40.0 M

Point from GL

Platform & Ladder at : Yes

Stack

Lab Provided Information

Sample Type : FLUE GAS Received : 21/04/2025

Test Start/End Date : 21/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	-	ment/Limit PCB(CTO)
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	5.8	%		

### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000729.001
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001062F
 JOE No
 : KE25-000729

Report Control No : KER0000235033

#### **NABL Accredited Tests**

Analysis	ysis Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.99	%		
Temperature	IS 11255 Part 3:1985	143	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	19.02	m/s		
Flow rate	IS 11255 Part 3:1985	195977	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	13.9	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	135.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	256.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	0.5	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	29.98	mg/Nm3		100

Remark: All parameters are done at site except PM

Per pro SGS India Private Ltd

MONAJ ROY

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

## Page 2 of 2

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000729.002
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001063F
 JOE No
 : KE25-000729

Report Control No : KER0000235033

**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 : 11.04.2025; 11.50 TO 12.30 PM
Sampling Location : TAIL ESP STACK(SINTER PLANT)

Stack Connected to : TAIL ESP

Emission Due to : DEDUSTING PROCESS

Height of Stack from : 40.0 M

**Ground Level** 

Port Hole Available : 04
Pollution Control : ESP

Device

Diameter of Stack : 2.32M Construction : MS

Material of Stack

Type of Stack : Circular
Height of Sampling : 36.0M

Point from GL

Platform & Ladder at : Yes

Stack

Lab Provided Information

Sample Type : FLUE GAS Received : 21/04/2025

Test Start/End Date : 21/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	-	ment/Limit PCB(CTO)
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	(CO2) CHEMICAL	USEPA METHOD 3A	1.8	%		

### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000729.002
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001063F
 JOE No
 : KE25-000729

Report Control No : KER0000235033

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	0.28	%		
Temperature	IS 11255 Part 3:1985	98	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	13.02	m/s		
Flow rate	IS 11255 Part 3:1985	157411	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	18.6	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.6	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	12.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	38.14	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
 : KE25-000729.003
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001064F
 JOE No
 : KE25-000729

Report Control No : KER0000235033

**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 : 14.04.2025; 11.00 TO 11.40 AM

Sampling Location : SINTER STORAGE BIN STACK(RMHS#1)
Stack Connected to : SINTER STORAGE BIN STACK(RMHS#1)

Emission Due to : PROCESS ACTIVITY

Height of Stack from

**Ground Level** 

: 40M

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 : 21/04/2025

Test Start/End Date : 21/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	-	ment/Limit PCB(CTO)
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

### Page 1 of 2

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 07 days (in case of perishable items) and 30 days for all other samples from the date of issue of report. The samples from the regulatory bodies are to be retained as specified.

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SGS India Pvt. Ltd.

SGS India Pvt Ltd., CS Plot -512(p) ,Mouza, Hanspukuria, Diamond Harbour Rd. PO-Joka, South 24 Parganas. Kolkata - 700104. Phone: +916292153834

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000729.003
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001064F
 JOE No
 : KE25-000729

Report Control No : KER0000235033

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.01	%		
Temperature	IS 11255 Part 3:1985	41	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	10.75	m/s		
Flow rate	IS 11255 Part 3:1985	148481	Nm3/Hrs		
Oxygen (O2)	USEPA ( Method 3A)	20.8	%		
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	15.66	mg/Nm3		100

Remark: All parameters are done at site except PM

Per pro SGS India Private Ltd

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE25-000729.004 : 28/04/2025 Report No **Issue Date** : KE25-000729 **ULR No** JOE No TC704725100001065F

**Report Control No** : KER0000235033

**Customer Provided Information** 

: FLUE GAS Sample Described by Customer as : TATA STEEL LIMITED **Customer Name** 

: METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

: 721301 Postal Code : INDIA Country : FLUE GAS Sample Description

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

Sampling Date : 11.04.2025; 16.20 TO 17.10 PM

: 30.0 M

: SINTER STORAGE BIN STACK(RHMS#2) Sampling Location Stack Connected to : SINTER STORAGE BIN STACK(RHMS#2)

: PROCESS ACTIVITY **Emission Due to** 

Height of Stack from

**Ground Level** 

: 2

**Pollution Control** BAG FILTER

Port Hole Available Device

Diameter of Stack Construction

· 1.1 M · MS

Material of Stack

Type of Stack : Circular : 25.0 M Height of Sampling

Point from GL

Platform & Ladder at : Yes

Stack

Lab Provided Information

Sample Type **FLUE GAS** Received 21/04/2025

Test Start/End Date 21/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	-	ment/Limit CB(CTO)
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	CHEMICAL	USEPA METHOD 3A	<0.2	%		

### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000729.004
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001065F
 JOE No
 : KE25-000729

Report Control No : KER0000235033

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.53	%		
Temperature	IS 11255 Part 3:1985	34	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	10.88	m/s		
Flow rate	IS 11255 Part 3:1985	34966	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.6	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	10.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	20.33	mg/Nm3		100

Remark: All parameters are done at site except PM

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MONAJ ROY

**Authorized Signatory** 

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

## Page 2 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000729.005
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001066F
 JOE No
 : KE25-000729

Report Control No : KER0000235033

**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 : 14/04/2025 12.40 TO 13.30 PM
Sampling Location : MBF-1 CAST HOUSE FES STACK
Stack Connected to : MBF-1 CAST HOUSE FES STACK

Emission Due to : EXTRACTION OF CAST HOUSE (MBF#1) FUMES

Height of Stack from : 43.6 M

**Ground Level** 

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 : 38.5 M

Point from GL

Platform & Ladder at : Yes

Stack

Lab Provided Information

Sample Type : FLUE GAS Received : 21/04/2025

Test Start/End Date : 21/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	-	ment/Limit PCB(CTO)
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

**ULR No** : TC704725100001066F **JOE No** : KE25-000729

Report Control No : KER0000235033

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.34	%		
Temperature	IS 11255 Part 3:1985	41	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	11.47	m/s		
Flow rate	IS 11255 Part 3:1985	119265	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.9	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.6	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	27.01	mg/Nm3		100

Remark: All parameters are done at site except PM

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MONAJ ROY

**Authorized Signatory** 

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000729.006
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001067F
 JOE No
 : KE25-000729

Report Control No : KER0000235033

**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 : 11.04.2025;13.25 TO 14.15 PM

Sampling Location : RFP BAG FILTER STACK(SINTER PLAN)

Stack Connected to : RPF BAG FILTER

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 : 17.5 M

Point from GL

Platform & Ladder at : Yes

Stack

Lab Provided Information

Sample Type : FLUE GAS Received : 21/04/2025

Test Start/End Date : 21/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	-	ment/Limit PCB(CTO)
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE25-000729.006 : 28/04/2025 Report No **Issue Date** : KE25-000729 **ULR No** TC704725100001067F JOE No

**Report Control No** KER0000235033

#### NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.99	%		
Temperature	IS 11255 Part 3:1985	38	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	11.80	m/s		
Flow rate	IS 11255 Part 3:1985	60369	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.7	%		
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	64.66	mg/Nm3		100

Remark: All parameters are done at site except PM

Per pro SGS India Private Ltd

**MONAJ ROY** 

**Authorized Signatory** 

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## Page 2 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000729.007
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001068F
 JOE No
 : KE25-000729

Report Control No : KER0000235033

**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 : 11.04.2025;12.40 TO 13.20 PM

: 30 M

Sampling Location : FLUX BAG FILTER
Stack Connected to : FLUX BAG FILTER

Emission Due to : PROCESS ACTIVITY(LIMESTONE, DOLOMITE, PROXINITE CRUSHING)

Height of Stack from

**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.M

Point from GL

Platform & Ladder at : Yes

Stack

Lab Provided Information

Sample Type : FLUE GAS Received : 21/04/2025

Test Start/End Date : 21/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	-	ment/Limit PCB(CTO)
•				Min	Max	
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		

## Page 1 of 2

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 07 days (in case of perishable items) and 30 days for all other samples from the date of issue of report. The samples from the regulatory bodies are to be retained as specified.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704725100001068F JOE No : KE25-000729

Report Control No : KER0000235033

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit WBPCB(CTO)	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.82	%		
Temperature	IS 11255 Part 3:1985	42	°C		
Barometric Pressure	IS 11255 Part 3:1985	754	mm Hg		
Velocity	IS 11255 Part 3:1985	11.85	m/s		
Flow rate	IS 11255 Part 3:1985	36971	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.7	%		
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	10.05	mg/Nm3		100

Remark: All parameters are done at site except PM

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MONAJ ROY

Authorized Signatory

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

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000713.001-A
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001072F
 JOE No
 : KE25-000713

Report Control No : KER0000235023

#### 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 : 10/04/2025 TO 11/04/2025
Sampling Location : MAHESHPUR VILLAGE
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT\_AIR
Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 28/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit NAAQMS (2009)	
					Min	Max
NABL Group :	Atmospheric Pollution	Ambient air				
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	de (SO2)	IS 5182 (Part 02): 2006	4.3	ug/m3		80
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	8.9	ug/m3		80
Particulate Ma	tter (PM10)	IS 5182 (Part 23) : 2006	62.2	ug/m3		100
Lead (as Pb)		IS:5182 (Part-22):2004	0.02	ug/m3		1.0
Carbon Monox	ride (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH	3)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3		400
Arsenic as As		SO-IN-MUL-TE-075	4.4	ng/m³		06(Annual)
Nickel as Ni		SO-IN-MUL-TE-075	<2.0	ng/m³		20(Annual)

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

#### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000713.001-A
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001072F
 JOE No
 : KE25-000713

Report Control No : KER0000235023

Per pro SGS India Private Ltd

**MONAJ ROY** 

Chemist

**Authorized Signatory** 

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

### Page 2 of 2

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000713.001-B Issue Date : 28/04/2025

JOE No : KE25-000713

Report Control No : KER0000235023

**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 : 10/04/2025 TO 11/04/2025
Sampling Location : MAHESHPUR VILLAGE
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT\_AIR
Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 28/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit MS (2009)
				Min	Max
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	25.6	ug/m3		60
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3		100
Benzene	ASTM D3687: 2007	<2.00	ug/m3		05(Annual)
Benzo (a) Pyrene	USEPA 8270 C TO - 13A	<0.20	ng/m³		01 (Annual)

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

Per pro SGS India Private Ltd

**MONAJ ROY** 

Chemist

**Authorized Signatory** 

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

### Page 1 of 1

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SGS India Pvt. Ltd.







SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000713.002-A
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001073F
 JOE No
 : KE25-000713

Report Control No : KER0000235023

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
 : 10/04/2025 TO 11/04/2025

 Sampling Location
 : GOKULPUR VILLAGE

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

Lab Provided Information

Sample Type : AMBIENT\_AIR
Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 28/04/2025

#### **NABL Accredited Tests**

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS (2009)	
				Min	Max
NABL Group: Atmospheric Pollution	Ambient air				
DISCIPLINE: CHEMICAL					
Sulphur Dioxide (SO2)	IS 5182 (Part 02): 2006	4.1	ug/m3		80
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	8.6	ug/m3		80
Particulate Matter (PM10)	IS 5182 (Part 23) : 2006	75.2	ug/m3		100
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)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3		400
Arsenic as As	SO-IN-MUL-TE-075	4.0	ng/m³		06(Annual
Nickel as Ni	SO-IN-MUL-TE-075	<2.0	ng/m³		20(Annual)

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

### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000713.002-A
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001073F
 JOE No
 : KE25-000713

Report Control No : KER0000235023

Per pro SGS India Private Ltd

**MONAJ ROY** 

Chemist

**Authorized Signatory** 

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

### Page 2 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000713.002-B Issue Date : 28/04/2025

JOE No : KE25-000713

Report Control No : KER0000235023

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
 : 10/04/2025 TO 11/04/2025

 Sampling Location
 : GOKULPUR VILLAGE

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

Lab Provided Information

Sample Type : AMBIENT\_AIR
Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 28/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS (2009)
			ı	Min Max
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	29.0	ug/m3	60
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3	100
Benzene	ASTM D3687: 2007	<2.00	ug/m3	05(Annual)
Benzo (a) Pyrene	USEPA 8270 C TO - 13A	<0.20	ng/m³	01 (Annual)

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

Per pro SGS India Private Ltd

**MONAJ ROY** 

Chemist

**Authorized Signatory** 

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

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TC-7047

#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE25-000713.003-A 28/04/2025 Report No **Issue Date** : KE25-000713 **ULR No** JOE No TC704725100001074F

: KER0000235023 Report Control No

#### Customer Provided Information

: AMBIENT AIR QUALITY MONITORING Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name** 

METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

721301 **Postal Code** : INDIA Country

. AMBIENT AIR QUALITY MONITORING Sample Description

Sampling Date 14/04/2025 TO 15/04/2025 Sampling Location NEAR DUCTURA HOUSE SO-IN-MUL-TE-176 Sampling Method

Lab Provided Information

AMBIENT AIR Sample Type Received 19/04/2025

- 19/04/2025 - 28/04/2025 Test Start/End Date

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit NAAQMS (2009)	
					Min	Max
NABL Group :	Atmospheric Pollution	Ambient air				
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	de (SO2)	IS 5182 (Part 02): 2006	5.3	ug/m3		80
Nitrogen Dioxi	ide (NO2)	IS 5182 (Part 06) : 2006	9.8	ug/m3		80
Particulate Ma	itter (PM10)	IS 5182 (Part 23) : 2006	88.0	ug/m3		100
Lead (as Pb)		IS:5182 (Part-22):2004	0.01	ug/m3		1.0
Carbon Monox	kide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH	3)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3		400
Arsenic as As		SO-IN-MUL-TE-075	3.6	ng/m³		06(Annual)
Nickel as Ni		SO-IN-MUL-TE-075	<2.0	ng/m³		20(Annual)

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

### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000713.003-A
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001074F
 JOE No
 : KE25-000713

Report Control No : KER0000235023

Per pro SGS India Private Ltd

**MONAJ ROY** 

Chemist

**Authorized Signatory** 

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

### Page 2 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000713.003-B Issue Date : 28/04/2025

JOE No : KE25-000713

Report Control No : KER0000235023

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 : 14/04/2025 TO 15/04/2025
Sampling Location : NEAR DUCTURA HOUSE
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT\_AIR
Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 28/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS (2009)
			1	Min Max
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	43.8	ug/m3	60
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3	100
Benzene	ASTM D3687: 2007	<2.00	ug/m3	05(Annual)
Benzo (a) Pyrene	USEPA 8270 C TO - 13A	<0.20	ng/m³	01 (Annual)

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

Per pro SGS India Private Ltd

**MONAJ ROY** 

Chemist

**Authorized Signatory** 

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

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TC-7047

#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000713.004-A
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001075F
 JOE No
 : KE25-000713

Report Control No : KER0000235023

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 : 14/04/2025 TO 15/04/2025
Sampling Location : NEAR RAILWAY SIDING
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT\_AIR Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 28/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result Unit	NAAC		ment/Limit QMS (2009)
					Min	Max
NABL Group :	Atmospheric Pollution	Ambient air				
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	de (SO2)	IS 5182 (Part 02): 2006	4.0	ug/m3		80
Nitrogen Dioxi	ide (NO2)	IS 5182 (Part 06) : 2006	8.3	ug/m3		80
Particulate Ma	atter (PM10)	IS 5182 (Part 23) : 2006	70.0	ug/m3		100
Lead (as Pb)		IS:5182 (Part-22):2004	0.01	ug/m3		1.0
Carbon Monox	xide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH	3)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3		400
Arsenic as As		SO-IN-MUL-TE-075	5.3	ng/m³		06(Annual)
Nickel as Ni		SO-IN-MUL-TE-075	<2.0	ng/m³		20(Annual)

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

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 : KE25-000713.004-A
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001075F
 JOE No
 : KE25-000713

Report Control No : KER0000235023

Per pro SGS India Private Ltd

**MONAJ ROY** 

Chemist

**Authorized Signatory** 

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000713.004-B Issue Date : 28/04/2025

JOE No : KE25-000713

Report Control No : KER0000235023

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
 : 14/04/2025 TO 15/04/2025

 Sampling Location
 : NEAR RAILWAY SIDING

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

Lab Provided Information

Sample Type : AMBIENT\_AIR
Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 28/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS (2009)	
				Min Max	
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	31.0	ug/m3	60	
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3	100	
Benzene	ASTM D3687: 2007	<2.00	ug/m3	05(Ann	ual)
Benzo (a) Pyrene	USEPA 8270 C TO - 13A	<0.20	ng/m³	01 (Ann	nual)

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

Per pro SGS India Private Ltd

**MONAJ ROY** 

Chemist

**Authorized Signatory** 

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000713.005-A
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001059F
 JOE No
 : KE25-000713

Report Control No : KER0000235023

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 : 15/04/2025 TO 16/04/2025

Sampling Location : NEAR CCP 4
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT\_AIR Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 28/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit NAAQMS (2009)	
					Min	Max
NABL Group :	Atmospheric Pollution	Ambient air				
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	5.0	ug/m3		80
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	10.2	ug/m3		80
Particulate Mat	tter (PM10)	IS 5182 (Part 23) : 2006	81.6	ug/m3		100
Lead (as Pb)		IS:5182 (Part-22):2004	0.01	ug/m3		1.0
Carbon Monox	ride (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH3	3)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3		400
Arsenic as As		SO-IN-MUL-TE-075	4.2	ng/m³		06(Annual)
Nickel as Ni		SO-IN-MUL-TE-075	<2.0	ng/m³		20(Annual)

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

### Page 1 of 2

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 : KE25-000713.005-A
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001059F
 JOE No
 : KE25-000713

Report Control No : KER0000235023

Per pro SGS India Private Ltd

**MONAJ ROY** 

Chemist

**Authorized Signatory** 

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

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000713.005-B Issue Date : 28/04/2025

JOE No : KE25-000713

Report Control No : KER0000235023

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 . 15/04/2025 TO 16/04/2025

Sampling Location : NEAR CCP 4
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT\_AIR
Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 28/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS (2009)
				Min Max
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	35.8	ug/m3	60
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3	100
Benzene	ASTM D3687: 2007	<2.00	ug/m3	05(Annual)
Benzo (a) Pyrene	USEPA 8270 C TO - 13A	<0.20	ng/m³	01 (Annual)

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

Per pro SGS India Private Ltd

**MONAJ ROY** 

Chemist

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000713.006-A
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001060F
 JOE No
 : KE25-000713

Report Control No : KER0000235023

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 : 16/04/2025 TO 17/04/2025
Sampling Location : NEAR GUEST HOUSE
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT\_AIR Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 28/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit NAAQMS (2009)	
					Min	Max
NABL Group :	Atmospheric Pollution	Ambient air				
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	de (SO2)	IS 5182 (Part 02): 2006	5.2	ug/m3		80
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	10.6	ug/m3		80
Particulate Ma	tter (PM10)	IS 5182 (Part 23) : 2006	88.8	ug/m3		100
Lead (as Pb)		IS:5182 (Part-22):2004	0.01	ug/m3		1.0
Carbon Monox	ride (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH	3)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3		400
Arsenic as As		SO-IN-MUL-TE-075	4.9	ng/m³		06(Annual)
Nickel as Ni		SO-IN-MUL-TE-075	<2.0	ng/m³		20(Annual)

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

### Page 1 of 2

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 ULR No
 : TC704725100001060F
 JOE No
 : KE25-000713

Report Control No : KER0000235023

Per pro SGS India Private Ltd

**MONAJ ROY** 

Chemist

**Authorized Signatory** 

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

### Page 2 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000713.006-B Issue Date : 28/04/2025

JOE No : KE25-000713

Report Control No : KER0000235023

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
 : 16/04/2025 TO 17/04/2025

 Sampling Location
 : NEAR GUEST HOUSE

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

Lab Provided Information

Sample Type : AMBIENT\_AIR
Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 28/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit NMS (2009)
				Min	Max
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	45.2	ug/m3		60
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3		100
Benzene	ASTM D3687: 2007	<2.00	ug/m3		05(Annual)
Benzo (a) Pyrene	USEPA 8270 C TO - 13A	<0.20	ng/m³		01 (Annual)

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

Per pro SGS India Private Ltd

**MONAJ ROY** 

Chemist

**Authorized Signatory** 

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

### Page 1 of 1

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000713.007-A
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001061F
 JOE No
 : KE25-000713

Report Control No : KER0000235023

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 : 16/04/2025 TO 17/04/2025
Sampling Location : NEAR DIP MATERIAL GATE

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT\_AIR
Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 28/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit NAAQMS (2009)	
					Min	Max
NABL Group :	Atmospheric Pollution	Ambient air				
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	de (SO2)	IS 5182 (Part 02): 2006	5.5	ug/m3		80
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	10.9	ug/m3		80
Particulate Ma	tter (PM10)	IS 5182 (Part 23) : 2006	86.6	ug/m3		100
Lead (as Pb)		IS:5182 (Part-22):2004	0.02	ug/m3		1.0
Carbon Monox	ride (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH	3)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3		400
Arsenic as As		SO-IN-MUL-TE-075	7.0	ng/m³		06(Annual)
Nickel as Ni		SO-IN-MUL-TE-075	2.6	ng/m³		20(Annual)

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

### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000713.007-A
 Issue Date
 : 28/04/2025

 ULR No
 : TC704725100001061F
 JOE No
 : KE25-000713

Report Control No : KER0000235023

Per pro SGS India Private Ltd

**MONAJ ROY** 

Chemist

**Authorized Signatory** 

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

### Page 2 of 2

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000713.007-B Issue Date : 28/04/2025

JOE No : KE25-000713

Report Control No : KER0000235023

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

SO-IN-MUL-TE-176

Sampling Date : 16/04/2025 TO 17/04/2025
Sampling Location : NEAR DIP MATERIAL GATE

Lab Provided Information

Sampling Method

Sample Type : AMBIENT\_AIR
Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 28/04/2025

#### Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit MS (2009)
				Min	Max
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	36.7	ug/m3		60
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3		100
Benzene	ASTM D3687: 2007	<2.00	ug/m3		05(Annual)
Benzo (a) Pyrene	USEPA 8270 C TO - 13A	<0.20	ng/m³		01 (Annual)

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

Per pro SGS India Private Ltd

**MONAJ ROY** 

Chemist

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

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# **Operation of Road Sweeping Machine**









# Raw material transportation through trucks with Tarpaulin cover





# **Annexure-7**

# 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

**Station:** INSIDE TATA River

METALIKS, KHARAGPUR

Basin: Kasai Haldi

**CPCB Station Code: 1943** 

Sample

Sample

**Date:** 22/04/2025

Time: 15:30

Human

Weather: Clear

Water Body: Ground Water at

**Activities:** Drinking

TATA Metaliks Kharagpur

**Frequency Of** Monitoring: Halfyearly Class: A

**Use Based** 

**Approximate** 

Depth(Bottom/Table): 300.00

Color &

**Intensity:** Clear

Visible effluent **Odour:** None discharge: None

Water Quality						
Parameter	Test Result	Unit				
Lead	BDL	mg/l				
Mercury	BDL	mg/l				
Nickel	BDL	mg/l				
Zinc	0.13	mg/l				
а-ВНС	BDL	ppb				
a-Endosulphan	NT	ppb				
Aldrin	NT	ppb				
Anilophos	NT	ppb				
b-Endosulphan	NT	ppb				
Chlorpyriphos	NT	ppb				
Dieldrin	NT	ppb				
g-BHC	BDL	ppb				
Malathion	BDL	ppb				
Methyl Parathion	BDL	ppb				
o,p-DDT	NT	ppb				
p,p-DDT	NT	ppb				
Ammonia-N	BDL	mg/l				
Conductivity	713.4	μs/cm				
Fecal Coliform	Nil	MPN/100ml				
Nitrate-N	BDL	mg/l				
рН	7.61	Unit				
Temperature(Water)	28	°C				
Total Coliform	Nil	MPN/100ml				
Boron	BDL	mg/l				

, 5:42 PM View Sample Test Result detail		
67.20	mg/l	
29.35	mg/l	
16.67	mg/l	
0.231	mg/l	
26.54	mg/l	
Nil	mg/l	
0.06	mg/l	
4.5	mg/l	
21.2	mg/l	
41.28	mg/l	
320.00	mg/l	
370.00	mg/l	
298.00	mg/l	
277.20	mg/l	
8.00	mg/l	
0.95	mg/l	
6.1	NTU	
BDL	mg/l	
2.59	mg/l	
	67.20 29.35 16.67 0.231 26.54 Nil 0.06 4.5 21.2 41.28 320.00 370.00 298.00 277.20 8.00 0.95 6.1 BDL BDL BDL BDL BDL BDL	







#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE25-001950.001 · 20/10/2025 Report No **Issue Date** 

KE25-001950 **ULR No** TC704725100002622F JOE No

KER0000243744 **Report Control No** 

**Customer Provided Information** 

Sample Described by Customer as : GROUND WATER

: TATA STEEL LIMITED **Customer Name** 

. METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

: PASCHIM MEDINIPUR City

: 721301 **Postal Code** : INDIA Country

: GROUND WATER Sample Description

: 10/10/2025 Sampling Date

. CAR PARKING NEAR GUEST HOUSE BOREWELL Sampling Location

: 8.5 L APPROX. Sample Qty. Recd.

: APHA 1060B,APHA 9060A Sampling Method

Lab Provided Information

**GROUND WATER** Sample Type

: 13/10/2025 Received

13/10/2025 - 20/10/2025 **Test Start/End Date** 

### **NABL Accredited Tests**

				Requirement/Limit  As per IS:10500:2012	
Analysis	Method	Result	Unit		
				Acceptable	Permissible
NABL Group : Water	Ground Water				
DISCIPLINE: BIOLOGICAL					
Coliform	IS 15185 : 2016	Absent	Per 100 ml		Absent
DISCIPLINE: CHEMICAL					
Colour	IS 3025 (Part 04) : 1983	5	H.U	5	15
Turbidity	IS 3025 (Part 10) : 2023	13.50	NTU	1	5
Total dissolved solids	IS 3025 (Part 16) : 2023	360.8	mg/L	500	2000
pH at 25 °C	IS 3025 (Part 11) : 2022	7.82		6.5-8.5	No relaxation
Done at site					
Nitrate as NO3	IS 3025 (Part 34) : 1988	BDL(DL:0.1)	mg/L	45	No relaxation
Fluoride (as F)	IS 3025 (Part 60) : 2008	0.20	mg/L	1.0	1.5
Chloride as Cl	IS 3025 (Part 32) : 1988	27.7	mg/L	250	1000
Sulphate as SO4	IS 3025 (Part 24) : 1986	41.3	mg/L	200	400
Total Alkalinity as CaCO3	IS 3025 (Part 23) : 1986	270.7	mg/L	200	600
Calcium as Ca	IS 3025 (Part 40) : 1991	75.2	mg/L	75	200
Magnesium as Mg	IS 3025 (Part 46) : 1994	21.8	mg/L	30	100

### Page 1 of 3

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SGS India Pvt. Ltd.

SGS India Pvt Ltd...CS Plot -512(p) ..Mouza. Hanspukuria.Diamond Harbour Rd.PO-Joka. South 24 Parganas.Kolkata - 700104.Phone:+916292153834







#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-001950.001 Issue Date : 20/10/2025

ULR No : TC704725100002622F JOE No : KE25-001950

Report Control No : KER0000243744

#### **NABL Accredited Tests**

				Require	ment/Limit
Analysis	Method	Result	Unit	As per IS	:10500:2012
			A	cceptable	Permissible
IABL Group : Water	Ground Water				
Residual Free Chlorine	IS 3025 (Part 26) : 1986	<0.10	mg/L	0.20	1.0
Done at site					
Phenolic compounds as C6H5OH	IS 3025 (Part 43) : 1992	BDL(DL:0.001)	mg/L	0.001	0.002
Cyanide as CN	IS 3025 (Part 27) : 1986	BDL(DL:0.02	mg/L	0.05	No relaxation
Odour	IS 3025 (Part 05) : 1983	Agreeable		Agreeabl	Agreeable
Taste	IS 3025 (Part 07) : 1984	Agreeable		e Agreeabl	Agreeable
Sulphide as H2S	IS 3025 (Part 29) : 1986	BDL(DL:0.05)	mg/L	e 0.05	No relaxatio
Ammonia(as total ammonia-N)	IS 3025 (Part 34) : 1988	BDL(DL:0.10)	mg/L	0.5	No relaxatio
Total Hardness as CaCO3	IS 3025 (Part 21) : 1983	277.4	mg/L	200	600
Metals					
Arsenic as As	APHA 23 RD EDN :3125 B	<1.00	μg/L	10	No relaxation.
Cadmium as Cd	APHA 23 RD EDN :3125 B	<1.00	μg/L	3	No relaxatio
Total chromium as Cr	APHA 23 RD EDN :3125 B	8.73	μg/L	50	No relaxatio
Copper as Cu	APHA 23 RD EDN :3125 B	<5.00	μg/L	50	1500
Lead as Pb	APHA 23 RD EDN :3125 B	<5.00	μg/L	10	No relaxatio
Manganese as Mn	APHA 23 RD EDN :3125 B	170.95	μg/L	100	300
Nickel as Ni	APHA 23 RD EDN :3125 B	<5.00	μg/L	20	No relaxatio
Selenium as Se	APHA 23 RD EDN :3125 B	<5.00	μg/L	10	No relaxatio
Barium as Ba	APHA 23 RD EDN :3125 B	162.96	μg/L	700	No relaxatio
Iron (as Fe )	APHA 23 RD EDN :3125 B	321.573	μg/L	1000	No relaxatio
Boron (as B )	APHA 23 RD EDN :3125 B	16.13	μg/L	500	2400
Zinc (as Zn )	APHA 23 RD EDN :3125 B	<5.00	μg/L	5000	15000
Aluminium (as AI )	APHA 23 RD EDN :3125 B	30.50	μg/L	30	200
Molybdenum as Mo	APHA 23 RD EDN :3125 B	<5.00	μg/L	70	No relaxatio
Total Mercury as Hg	USEPA 6020A	0.66	μg/L	1.0	No relaxatio

Remark: pH,RFC Analysed at site

### Page 2 of 3

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SGS India Pvt. Ltd.

SGS India Pvt Ltd..CS Plot -512(p) .Mouza. Hanspukuria.Diamond Harbour Rd.PO-Joka. South 24 Parganas.Kolkata - 700104.Phone:+916292153834







#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE25-001950.001 : 20/10/2025 Report No **Issue Date** 

: KE25-001950 JOE No **ULR No** TC704725100002622F

KER0000243744 **Report Control No** 

Per pro SGS India Private Ltd

**SOUMI DATTA** 

**Authorized Signatory** 

Per pro SGS India Private Ltd

**MONAJ ROY** 

**Authorized Signatory** 

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

### Page 3 of 3

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-001950.002
 Issue Date
 : 20/10/2025

 ULR No
 : TC704725100002623F
 JOE No
 : KE25-001950

Report Control No : KER0000243744

**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 : 10/10/2025

Sampling Location : 100 T WB PIPE CRUSHING UNIT BOREWELL

Sample Qty. Recd. 8.5 L APPROX.

Sampling Method : APHA 1060B,APHA 9060A

Lab Provided Information

Sample Type : GROUND WATER

**Received** : 13/10/2025

Test Start/End Date : 13/10/2025 - 20/10/2025

### **NABL Accredited Tests**

				Require	ment/Limit
Analysis	Method	Result	Unit	As per IS:10500:2012	
			A	Acceptable	Permissible
NABL Group : Water	Ground Water				
DISCIPLINE: BIOLOGICAL	<u>-</u>				
Coliform	IS 15185 : 2016	Absent	Per 100 ml		Absent
DISCIPLINE: CHEMICAL					
Colour	IS 3025 (Part 04) : 1983	5	H.U	5	15
Turbidity	IS 3025 (Part 10) : 2023	3.98	NTU	1	5
Total dissolved solids	IS 3025 (Part 16) : 2023	256.2	mg/L	500	2000
pH at 25 °C	IS 3025 (Part 11) : 2022	7.75		6.5-8.5	No relaxatio
Done at site					
Nitrate as NO3	IS 3025 (Part 34) : 1988	BDL(DL:0.1)	mg/L	45	No relaxatio
Fluoride (as F)	IS 3025 (Part 60) : 2008	0.37	mg/L	1.0	1.5
Chloride as Cl	IS 3025 (Part 32) : 1988	13.3	mg/L	250	1000
Sulphate as SO4	IS 3025 (Part 24) : 1986	21.1	mg/L	200	400
Total Alkalinity as CaCO3	IS 3025 (Part 23) : 1986	198.9	mg/L	200	600
Calcium as Ca	IS 3025 (Part 40) : 1991	46.6	mg/L	75	200
Magnesium as Mg	IS 3025 (Part 46) : 1994	15.4	mg/L	30	100

### Page 1 of 3

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SGS India Pvt Ltd..CS Plot -512(p) .Mouza. Hanspukuria.Diamond Harbour Rd.PO-Joka. South 24 Parganas.Kolkata - 700104.Phone:+916292153834







#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-001950.002 Issue Date : 20/10/2025

**ULR No** : TC704725100002623F **JOE No** : KE25-001950

Report Control No : KER0000243744

#### **NABL Accredited Tests**

				Require	ment/Limit
Analysis	Method	Result	Unit	As per IS:10500:201	
			A	cceptable	Permissible
NABL Group: Water	Ground Water				
Residual Free Chlorine  Done at site	IS 3025 (Part 26) : 1986	<0.10	mg/L	0.20	1.0
Phenolic compounds as C6H5OH	IS 3025 (Part 43) : 1992	BDL(DL:0.001)	mg/L	0.001	0.002
Cyanide as CN	IS 3025 (Part 27) : 1986	BDL(DL:0.02	mg/L	0.05	No relaxation
Odour	IS 3025 (Part 05) : 1983	Agreeable		Agreeabl e	Agreeable
Taste	IS 3025 (Part 07) : 1984	Agreeable		Agreeabl e	Agreeable
Sulphide as H2S	IS 3025 (Part 29) : 1986	BDL(DL:0.05)	mg/L	0.05	No relaxation
Ammonia(as total ammonia-N)	IS 3025 (Part 34) : 1988	BDL(DL:0.10)	mg/L	0.5	No relaxatio
Total Hardness as CaCO3	IS 3025 (Part 21) : 1983	179.5	mg/L	200	600
Metals					
Arsenic as As	APHA 23 RD EDN :3125 B	<1.00	μg/L	10	No relaxation.
Cadmium as Cd	APHA 23 RD EDN :3125 B	<1.00	μg/L	3	No relaxatio
Total chromium as Cr	APHA 23 RD EDN :3125 B	8.88	μg/L	50	No relaxation
Copper as Cu	APHA 23 RD EDN :3125 B	<5.00	μg/L	50	1500
Lead as Pb	APHA 23 RD EDN :3125 B	<5.00	μg/L	10	No relaxatio
Manganese as Mn	APHA 23 RD EDN :3125 B	30.44	μg/L	100	300
Nickel as Ni	APHA 23 RD EDN :3125 B	<5.00	μg/L	20	No relaxatio
Selenium as Se	APHA 23 RD EDN :3125 B	<5.00	μg/L	10	No relaxatio
Barium as Ba	APHA 23 RD EDN :3125 B	109.74	μg/L	700	No relaxatio
Iron (as Fe )	APHA 23 RD EDN :3125 B	146.827	μg/L	1000	No relaxation
Boron (as B )	APHA 23 RD EDN :3125 B	19.98	μg/L	500	2400
Zinc (as Zn )	APHA 23 RD EDN :3125 B	46.60	μg/L	5000	15000
Aluminium (as AI )	APHA 23 RD EDN :3125 B	25.14	μg/L	30	200
Molybdenum as Mo	APHA 23 RD EDN :3125 B	<5.00	μg/L	70	No relaxation
Total Mercury as Hg	USEPA 6020A	<0.50	μg/L	1.0	No relaxation

Remark: pH,RFC Analysed at site

### Page 2 of 3

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-001950.002 Issue Date : 20/10/2025

**ULR No** : TC704725100002623F **JOE No** : KE25-001950

Report Control No : KER0000243744

Per pro SGS India Private Ltd

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**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.

· KE25-000716,001 26/04/2025 Report No **Issue Date** : KE25-000716 **ULR No** TC704725100001010F JOE No

KER0000234949 **Report Control No** 

### **Customer Provided Information**

: EFFLUENT Sample Described by Customer as : TATA STEEL LIMITED **Customer Name** 

METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

: 721301 **Postal Code** : INDIA Country : EFFLUENT Sample Description : 18/04/2025 Sampling Date

. CPP-3 RESERVOIR TREATED WATER Sampling Location

: 3.5L APPROX. Sample Qty. Recd. : APHA 1060B Sampling Method

#### Lab Provided Information

**EFFLUENT** Sample Type 19/04/2025 Received

19/04/2025 - 26/04/2025 Test Start/End Date

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit CPCB DIS. INLAND SURFACE WATER Min Max
IABL Group :	Pollution & Environr	nent Waste Water (Efflue	nts/Sewage)		
DISCIPLINE:	CHEMICAL				
Total Suspend	ed Solids	APHA 23RD EDN 2540 D	4.00	mg/L	100
pН		APHA 23RD EDN 4500 B	7.44		5.5-9.0
Analysed	at site.				
Oil & Grease		APHA 23RD EDN 5520 B	5.0	mg/L	10
BOD at 27 °C f	or 3 days	IS 3025 (Part 44) : 1993	22.8	mg/L	30
COD		APHA 24th EDN: 5220 B	99.0	mg/L	250
Total Dissolve	d Solids	APHA 23 RD EDN 2540 C	903.0	mg/L	

Remark: pH Analysed at site

### Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000716.004
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001013F
 JOE No
 : KE25-000716

Report Control No : KER0000234949

**Customer Provided Information** 

Sample Described by Customer as : EFFLUENT
Customer Name : TATA STEEL LIMITED

Customer Name : TATA STEEL LIMITED

Customer Address : METALIKS DIVISION KHARAGPUR

: APHA 1060B

SAMRAIPUR, GOKULPUR

City : PASCHIM MEDINIPUR

Postal Code : 721301

Country : INDIA

Sample Description : EFFLUENT

Sampling Date : 18/04/2025

Sampling Location : ETP OUTLET (DI)

Sample Qty. Recd. : 3.5L APPROX.

Lab Provided Information

Sampling Method

Sample Type : EFFLUENT Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit CPCB DIS. INLAND SURFACE WATER Min Max
NABL Group :	Pollution & Environme	ent Waste Water (Efflue	nts/Sewage)		
DISCIPLINE:	CHEMICAL				
Total Suspend	ed Solids	APHA 23RD EDN 2540 D	58.13	mg/L	100
pН		APHA 23RD EDN 4500 B	8.31		5.5-9.0
Analysed	l at site.				
Oil & Grease		APHA 23RD EDN 5520 B	<2.0	mg/L	10
BOD at 27 °C f	or 3 days	IS 3025 (Part 44) : 1993	10.9	mg/L	30
COD		APHA 24th EDN: 5220 B	79.2	mg/L	250
Total Dissolve	d Solids	APHA 23 RD EDN 2540 C	1406.0	mg/L	

Remark: pH Analysed at site

### Page 1 of 2

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TC-7047

#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000716.006
 Issue Date
 : 26/04/2025

 ULR No
 : TC704725100001015F
 JOE No
 : KE25-000716

Report Control No : KER0000234949

**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 : 18/04/2025

Sampling Location . ETP OUTLET 450 KLD TREATED WATER (PI)

Sampling Method : APHA 1060B
Sample Qty. Recd. : 3.5L APPROX.

Lab Provided Information

Sample Type : EFFLUENT Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 26/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit CPCB DIS. INLAND SURFACE WATER Min Max
IABL Group :	Pollution & Environn	nent Waste Water (Efflue	nts/Sewage)		
DISCIPLINE:	CHEMICAL				
Total Suspend	ed Solids	APHA 23RD EDN 2540 D	<2.00	mg/L	100
рН		APHA 23RD EDN 4500 B	7.42		5.5-9.0
Analysed	l at site.				
Oil & Grease		APHA 23RD EDN 5520 B	<2.0	mg/L	10
BOD at 27 °C f	or 3 days	IS 3025 (Part 44) : 1993	6.1	mg/L	30
COD		APHA 24th EDN: 5220 B	49.5	mg/L	250
Total Dissolve	d Solids	APHA 23 RD EDN 2540 C	147.0	mg/L	

Remark: pH Analysed at site

### Page 1 of 2

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# Annexure-10

# Rainwater Harvesting pond - Inside plant area









**Outside Plant area** 

















Annexure - 11

TC-7047

#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 KE25-000715.001 · 22/04/2025 **Report No Issue Date** KE25-000715 **ULR No** TC704725100000934F JOE No

KER0000234714 Report Control No

**Customer Provided Information** 

: AMBIENT NOISE Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name** 

METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

City PASCHIM MEDINIPUR

: 721301 **Postal Code** : INDIA Country

: 14.04.2025 TO 15.04.2025 Sampling Date NEAR RAILWAY SIDING Sampling Location Sampling Method SO-IN-MUL-TE-176 : AMBIENT NOISE **Sample Description** 

Lab Provided Information

AMBIENT NOISE Sample Type 19/04/2025 Received

19/04/2025 - 21/04/2025 **Test Start/End Date** 

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
				Min	Max	
NABL Group :	Atmospheric Pollution	Ambient Noise Le	evels (Excluding vibration)			
DISCIPLINE:	CHEMICAL					
Noise (Day Tim	ie)	SO-IN-MUL-TE-049	70.60	dB(A) Leq		75
Noise (Night Ti	me)	SO-IN-MUL-TE-049	44.20	dB(A) Leq		70

ANALYSED AT SITE. Remark:

Per pro SGS India Private Ltd

Suman Berg

Suman Bera hemist **Authorized Signatory** 

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000715.002 Issue Date : 22/04/2025

**ULR No** : TC704725100000935F **JOE No** : KE25-000715

Report Control No : KER0000234714

**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

Sampling Date : 14.04.2025 TO 15.04.2025
Sampling Location : NEAR DUCTURA HOUSE
Sampling Method : SO-IN-MUL-TE-176
Sample Description : AMBIENT NOISE

**Lab Provided Information** 

Sample Type : AMBIENT NOISE
Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 21/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
				Min	Max	
NABL Group :	Atmospheric Pollution	Ambient Noise Le	evels (Excluding vibration)			
DISCIPLINE:	CHEMICAL					
Noise (Day Tim	ie)	SO-IN-MUL-TE-049	69.00	dB(A) Leq		75
Noise (Night Ti	me)	SO-IN-MUL-TE-049	43.20	dB(A) Leq		70

Remark: ANALYSED AT SITE.

Per pro SGS India Private Ltd

Suman Bora

Suman Bera

hemist
Authorized Signatory

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000715.003 Issue Date : 22/04/2025

**ULR No** : TC704725100000936F **JOE No** : KE25-000715

Report Control No : KER0000234714

**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

Sampling Date : 15.04.2025 TO 16.04.2025

Sampling Location : NEAR CPP-4 Sampling Method : SO-IN-MUL-TE-176 Sample Description : AMBIENT NOISE

**Lab Provided Information** 

Sample Type : AMBIENT NOISE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 21/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
				Min	Max	
NABL Group :	Atmospheric Pollution	Ambient Noise Le	evels (Excluding vibration)			
DISCIPLINE:	CHEMICAL					
Noise (Day Tim	ie)	SO-IN-MUL-TE-049	66.80	dB(A) Leq		75
Noise (Night Ti	me)	SO-IN-MUL-TE-049	40.30	dB(A) Leq		70

Remark: ANALYSED AT SITE.

Per pro SGS India Private Ltd

Suman Bera

hemist

**Authorized Signatory** 

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

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000715.004 Issue Date : 22/04/2025

ULR No : TC704725100000937F JOE No : KE25-000715

Report Control No : KER0000234714

**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

Sampling Date : 16.04.2025 TO 17.04.2025
Sampling Location : NEAR GUEST HOUSE
Sampling Method : SO-IN-MUL-TE-176
Sample Description : AMBIENT NOISE

**Lab Provided Information** 

Sample Type : AMBIENT NOISE
Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 21/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
				Min	Max	
NABL Group :	Atmospheric Pollution	Ambient Noise Le	evels (Excluding vibration)			
DISCIPLINE:	CHEMICAL					
Noise (Day Tim	e)	SO-IN-MUL-TE-049	65.00	dB(A) Leq		75
Noise (Night Ti	me)	SO-IN-MUL-TE-049	43.40	dB(A) Leq		70

Remark: ANALYSED AT SITE.

Per pro SGS India Private Ltd

Suman Bora

Suman Bera

hemist
Authorized Signatory

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

### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE25-000715.005 Issue Date : 22/04/2025

ULR No : TC704725100000938F JOE No : KE25-000715

Report Control No : KER0000234714

**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

Sampling Date : 16.04.2025 TO 17.04.2025
Sampling Location : NEAR DIP MATERIAL GATE

Sampling Method : SO-IN-MUL-TE-176
Sample Description : AMBIENT NOISE

Lab Provided Information

Sample Type : AMBIENT NOISE Received : 19/04/2025

Test Start/End Date : 19/04/2025 - 21/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
				Min	Max	
NABL Group :	Atmospheric Pollution	Ambient Noise Le	evels (Excluding vibration)			
DISCIPLINE:	CHEMICAL					
Noise (Day Tim	ie)	SO-IN-MUL-TE-049	72.90	dB(A) Leq		75
Noise (Night Ti	me)	SO-IN-MUL-TE-049	50.00	dB(A) Leq		70

Remark: ANALYSED AT SITE.

Per pro SGS India Private Ltd

Suman Bera

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Authorized Signatory

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

# Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE25-000714.001 · 22/04/2025 Report No **Issue Date** KE25-000714 **ULR No** TC704725100000925F JOE No

KER0000234720 **Report Control No** 

**Customer Provided Information** 

: AMBIENT NOISE Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name** 

METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

City PASCHIM MEDINIPUR

: 721301 **Postal Code** : INDIA Country

: AMBIENT NOISE Sample Description

Sampling Date 10.04.2025 TO 11.04.2025

Sampling Location . MAHESHPUR VILLAGE (DAY AND NIGHT TIME)

Sampling Method SO-IN-MUL-TE-176

Lab Provided Information

NOISE MONITORING Sample Type

19/04/2025 Received

19/04/2025 - 21/04/2025 **Test Start/End Date** 

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit CPCB RESIDENTIAL AREA	
				Min	Max	
NABL Group :	Atmospheric Pollution	Ambient Noise Lo	evels (Excluding vibration)			
DISCIPLINE:	CHEMICAL					
Noise (Day Tim	e)	SO-IN-MUL-TE-049	49.3	dB(A)		55
Noise (Night Tir	me)	SO-IN-MUL-TE-049	36.8	dB(A)		45

ANALYSED AT SITE Remark:

Per pro SGS India Private Ltd

Suman Borg

Suman Bera

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# Page 1 of 1

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JOE No



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 KE25-000714.002 · 22/04/2025 Report No **Issue Date** KE25-000714

KER0000234720 **Report Control No** 

**Customer Provided Information** 

**ULR No** 

: AMBIENT NOISE Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name** 

METALIKS DIVISION KHARAGPUR **Customer Address** 

SAMRAIPUR, GOKULPUR

TC704725100000926F

City PASCHIM MEDINIPUR

: 721301 **Postal Code** : INDIA Country

: AMBIENT NOISE Sample Description

: 10.04.2025 TO 11.04.2025 Sampling Date

Sampling Location . GOKULPUR VILLAGE (DAY AND NIGHT TIME)

Sampling Method SO-IN-MUL-TE-176

Lab Provided Information

NOISE MONITORING Sample Type

19/04/2025 Received

19/04/2025 - 21/04/2025 **Test Start/End Date** 

#### **NABL Accredited Tests**

Analysis		Method Result Unit	Requirement/Limit CPCB RESIDENTIAL AREA			
				Min	Max	
NABL Group :	Atmospheric Pollution	Ambient Noise Le	vels (Excluding vibration)			
DISCIPLINE:	CHEMICAL					
Noise (Day Tim	e)	SO-IN-MUL-TE-049	52.2	dB(A)		55
Noise (Night Ti	me)	SO-IN-MUL-TE-049	37.2	dB(A)		45

ANALYSED AT SITE Remark:

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Suman Bara

Suman Bera

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# Page 1 of 1

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### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.001
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000958F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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 : 12.04.2025

Sampling Location NEAR CCM AREA DIP-1
Sampling Method SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE Received : 21/04/2025

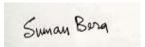
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948			
					Min	Max		
NABL Group :	Atmospheric Pollution	Source Noise Lev	Source Noise Levels (Excluding vibration) DG Noise level					
DISCIPLINE:	CHEMICAL							
Noise		SO-IN-MUL-TE-049	78.3	dB(A) Leq		90		

Remark: ANALYSED AT SITE

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

### Page 1 of 1

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### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.002
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000959F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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 : 12.04.2025

Sampling Location NEAR CORE SHOP DIP-1

Sampling Method SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE

**Received** : 21/04/2025

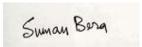
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Source Noise Le	vels (Excluding vibration	n) DG Noise level		
DISCIPLINE:	CHEMICAL					
Noise		SO-IN-MUL-TE-049	76.3	dB(A) Leq		90

Remark: ANALYSED AT SITE

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

### Page 1 of 1

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### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.003
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000960F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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** : 12.04.2025

Sampling Location : NEAR ZINC COATING AREA FL-1

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE Received : 21/04/2025

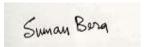
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

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

Remark: ANALYSED AT SITE

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

### Page 1 of 1

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### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.004
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000961F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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 : 12.04.2025

Sampling Location . NEAR INDUCTION FURNACE AREA(DIP-1)

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE Received : 21/04/2025

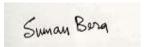
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

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

Remark: ANALYSED AT SITE

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### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.005
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000962F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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** : 12.04.2025

Sampling Location : NEAR EXTERNAL COATING AREA FL-1
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE Received : 21/04/2025

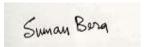
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

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

Remark: ANALYSED AT SITE

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### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.006
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000963F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

**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 212.04.2025

Sampling Location NEAR ZINC COATING AREA FL-3

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE Received : 21/04/2025

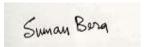
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Source Noise Le	vels (Excluding vibration	) DG Noise level		
DISCIPLINE:	CHEMICAL					
Noise		SO-IN-MUL-TE-049	72.2	dB(A) Leq		90

Remark: ANALYSED AT SITE

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Suman Bera

**Authorized Signatory** 

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

### Page 1 of 1

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SGS India Pvt. Ltd.







#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.007
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000964F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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 : 12.04.2025

Sampling Location . NEAR EXTERNAL COATING FL-3

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE Received : 21/04/2025

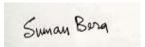
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Source Noise Le	vels (Excluding vibration	n) DG Noise level		
DISCIPLINE:	CHEMICAL					
Noise		SO-IN-MUL-TE-049	82.1	dB(A) Leq		90

Remark: ANALYSED AT SITE

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Suman Bera

**Authorized Signatory** 

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

### Page 1 of 1

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SGS India Pvt. Ltd.







#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.008
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000965F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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** <u>12.04.2025</u>

Sampling Location : NEAR CCM AREA DIP-2
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE

**Received** : 21/04/2025

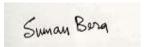
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Source Noise Le	vels (Excluding vibratio	n) DG Noise level		
DISCIPLINE:	CHEMICAL					
Noise		SO-IN-MUL-TE-049	82	dB(A) Leq		90

Remark: ANALYSED AT SITE

Per pro SGS India Private Ltd



Suman Bera

**Authorized Signatory** 

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

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SGS India Pvt. Ltd.







### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.011
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000968F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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 : 12.04.2025

Sampling Location . NEAR MBF-1 BLOWER HOUSE

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE

**Received** : 21/04/2025

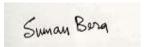
Test Start/End Date : 21/04/2025 - 24/04/2025

#### NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
		Metriou	Result		Min	Max
NABL Group :	Atmospheric Pollution	Source Noise Lev	vels (Excluding vibration	n) DG Noise level		
DISCIPLINE:	CHEMICAL					
Noise		SO-IN-MUL-TE-049	78.7	dB(A) Leq		90

Remark: ANALYSED AT SITE

Per pro SGS India Private Ltd



Suman Bera

**Authorized Signatory** 

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

### Page 1 of 1

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SGS India Pvt. Ltd.







### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.012
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000969F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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 : 12.04.2025

Sampling Location : NEAR CAST HOUSE 1
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE Received : 21/04/2025

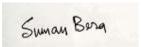
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Source Noise Le	vels (Excluding vibration	n) DG Noise level		
DISCIPLINE:	CHEMICAL					
Noise		SO-IN-MUL-TE-049	82.7	dB(A) Leq		90

Remark: ANALYSED AT SITE

Per pro SGS India Private Ltd



Suman Bera

**Authorized Signatory** 

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

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SGS India Pvt. Ltd.







### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.013
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000970F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

**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 SPCM AREA

**Sampling Date** 12.04.2025

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

Lab Provided Information

Sample Type : SOURCE NOISE Received : 21/04/2025

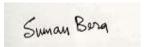
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Source Noise Le	vels (Excluding vibration	) DG Noise level		
DISCIPLINE:	CHEMICAL					
Noise		SO-IN-MUL-TE-049	77.1	dB(A) Leq		90

Remark: ANALYSED AT SITE

Per pro SGS India Private Ltd



Suman Bera

**Authorized Signatory** 

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

### Page 1 of 1

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SGS India Pvt. Ltd.







### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.014
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000971F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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 COAST HOUSE - 2

**Sampling Date** . 15/04/2025

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE

Received : 21/04/2025

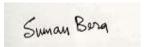
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

NABL Accredited 1						
Analysis		Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Source Noise Lev	els (Excluding vibratio	n) DG Noise level		
DISCIPLINE:	CHEMICAL					
Noise		SO-IN-MUL-TE-049	82.5	dB(A) Leq		90

Remark: ANALYSED AT SITE

Per pro SGS India Private Ltd



Suman Bera

**Authorized Signatory** 

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

### Page 1 of 1

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.015
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000972F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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 MBF - 2 BLOWER HOUSE

**Sampling Date** . 15/04/2025

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE

**Received** : 21/04/2025

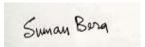
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	•	ment/Limit DRIES ACT,1948
					Min	Max
NABL Group :	Atmospheric Pollution	Source Noise Le	vels (Excluding vibration	) DG Noise level		
DISCIPLINE:	CHEMICAL					
Noise		SO-IN-MUL-TE-049	83.7	dB(A) Leq		90

Remark: ANALYSED AT SITE

Per pro SGS India Private Ltd



Suman Bera

**Authorized Signatory** 

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

### Page 1 of 1

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SGS India Pvt. Ltd.







#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.016
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000973F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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 RMHS -1
Sampling Date : 15/04/2025

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE Received : 21/04/2025

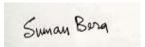
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Source Noise Le	vels (Excluding vibration	n) DG Noise level		
DISCIPLINE:	CHEMICAL					
Noise		SO-IN-MUL-TE-049	83.5	dB(A) Leq		90

Remark: ANALYSED AT SITE

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

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#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.017
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000974F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

**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 : 15/04/2025
Sampling Location : NEAR RMHS-2
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE Received : 21/04/2025

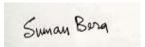
Test Start/End Date : 21/04/2025 - 24/04/2025

#### NABL Accredited Tests

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

Remark: ANALYSED AT SITE

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### Page 1 of 1

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### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.018
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000975F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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 CPP-3 TURBINE HALL

**Sampling Date** . 15/04/2025

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE Received : 21/04/2025

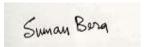
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Source Noise Le	vels (Excluding vibration	) DG Noise level		
DISCIPLINE:	CHEMICAL					
Noise		SO-IN-MUL-TE-049	80.2	dB(A) Leq		90

Remark: ANALYSED AT SITE

Per pro SGS India Private Ltd



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### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.019
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000976F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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 . 15/04/2025

Sampling Location . NEAR CPP-4 TURBINE HALL

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE

**Received** : 21/04/2025

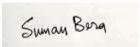
Test Start/End Date : 21/04/2025 - 24/04/2025

#### NABL Accredited Tests

Analysis		Method Result	Method Result	Unit	•	ment/Limit DRIES ACT,1948
					Min	Max
NABL Group :	Atmospheric Pollution	Source Noise Lev	vels (Excluding vibratio	n) DG Noise level		
DISCIPLINE:	CHEMICAL					
Noise		SO-IN-MUL-TE-049	74.8	dB(A) Leq		90

Remark: ANALYSED AT SITE

Per pro SGS India Private Ltd



Suman Bera

**Authorized Signatory** 

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SGS India Pvt. Ltd.







### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.020
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000977F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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

Country : INDIA
Sample Description : SOURCE NOISE

**Sampling Date** : 15/04/2025

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

Sampling Location . NEAR CPP-2 TURBINE HALL

Lab Provided Information

Sample Type : SOURCE NOISE Received : 21/04/2025

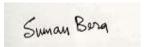
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

Analysis		Method Result Unit		Requirement/Limit THE FACTORIES ACT,194				
					Min	Max		
NABL Group :	Atmospheric Pollution	Source Noise Le	Source Noise Levels (Excluding vibration) DG Noise level					
DISCIPLINE:	CHEMICAL							
Noise		SO-IN-MUL-TE-049	78.2	dB(A) Leq		90		

Remark: ANALYSED AT SITE

Per pro SGS India Private Ltd



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SGS India Pvt. Ltd.







### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.021
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000978F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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 . COMPRESSOR HOUSE MBF-1

**Sampling Date** . 15/04/2025

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE

**Received** : 21/04/2025

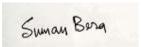
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948			
					Min	Max		
NABL Group :	Atmospheric Pollution	Source Noise Le	Source Noise Levels (Excluding vibration) DG Noise level					
DISCIPLINE:	CHEMICAL							
Noise		SO-IN-MUL-TE-049	81	dB(A) Leq		90		

Remark: ANALYSED AT SITE

Per pro SGS India Private Ltd



Suman Bera

**Authorized Signatory** 

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SGS India Pvt. Ltd.







#### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.022
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000979F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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 . COMPRESSOR HOUSE MBF-2

**Sampling Date** . 15/04/2025

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE

**Received** : 21/04/2025

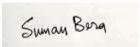
Test Start/End Date : 21/04/2025 - 24/04/2025

#### NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948				
		otou			Min	Max			
NABL Group :	Atmospheric Pollution	Source Noise Le	Source Noise Levels (Excluding vibration) DG Noise level						
DISCIPLINE:	CHEMICAL								
Noise		SO-IN-MUL-TE-049	77.9	dB(A) Leq		90			

Remark: ANALYSED AT SITE

Per pro SGS India Private Ltd



Suman Bera

**Authorized Signatory** 

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

### Page 1 of 1

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SGS India Pvt. Ltd.







### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.023
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000980F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

**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** . 15/04/2025

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE Received : 21/04/2025

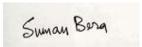
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Result Unit		ment/Limit DRIES ACT,1948		
					Min	Max		
NABL Group :	Atmospheric Pollution	Source Noise Le	Source Noise Levels (Excluding vibration) DG Noise level					
DISCIPLINE:	CHEMICAL							
Noise		SO-IN-MUL-TE-049	80.7	dB(A) Leq		90		

Remark: ANALYSED AT SITE

Per pro SGS India Private Ltd



Suman Bera

**Authorized Signatory** 

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SGS India Pvt. Ltd.







### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.026
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000983F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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-4 (DIP-2)

**Sampling Date** . 15/04/2025

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE Received : 21/04/2025

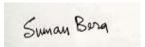
Test Start/End Date : 21/04/2025 - 24/04/2025

#### NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948				
					Min	Max			
NABL Group :	Atmospheric Pollution	Source Noise Lev	Source Noise Levels (Excluding vibration) DG Noise level						
DISCIPLINE:	CHEMICAL								
Noise		SO-IN-MUL-TE-049	82.6	dB(A) Leq		90			

Remark: ANALYSED AT SITE

Per pro SGS India Private Ltd



Suman Bera

**Authorized Signatory** 

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### Page 1 of 1

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### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.027
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000984F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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** . 15/04/2025

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE Received : 21/04/2025

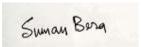
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948			
					Min	Max		
NABL Group :	Atmospheric Pollution	Source Noise Le	Source Noise Levels (Excluding vibration) DG Noise level					
DISCIPLINE:	CHEMICAL							
Noise		SO-IN-MUL-TE-049	77.5	dB(A) Leq		90		

Remark: ANALYSED AT SITE

Per pro SGS India Private Ltd



Suman Bera

**Authorized Signatory** 

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SGS India Pvt. Ltd.







### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.028
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000985F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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** . 15/04/2025

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE

Received : 21/04/2025

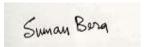
Test Start/End Date : 21/04/2025 - 24/04/2025

#### NABL Accredited Tests

Analysis		Method Result Unit	Requirement/Limit THE FACTORIES ACT			
					Min	Max
NABL Group :	Atmospheric Pollution	Source Noise Lev	vels (Excluding vibration	n) DG Noise level		
DISCIPLINE:	CHEMICAL					
Noise		SO-IN-MUL-TE-049	82.6	dB(A) Leq		90

Remark: ANALYSED AT SITE

Per pro SGS India Private Ltd



Suman Bera

**Authorized Signatory** 

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### Page 1 of 1

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SGS India Pvt. Ltd.







### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.029
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000986F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

**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 FL-5 (DIP-2)

**Sampling Date** . 15/04/2025

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE Received : 21/04/2025

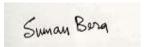
Test Start/End Date : 21/04/2025 - 24/04/2025

#### NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Source Noise Lev	vels (Excluding vibration	n) DG Noise level		
DISCIPLINE:	CHEMICAL					
Noise		SO-IN-MUL-TE-049	83.6	dB(A) Leq		90

Remark: ANALYSED AT SITE

Per pro SGS India Private Ltd



Suman Bera

**Authorized Signatory** 

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SGS India Pvt. Ltd.







### SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE25-000730.030
 Issue Date
 : 24/04/2025

 ULR No
 : TC704725100000987F
 JOE No
 : KE25-000730

Report Control No : KER0000234834

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 INDUCTION FURNACE & MG. TREATMENT AREA(DIP-2)

**Sampling Date** . 15/04/2025

Sampling Method . SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : SOURCE NOISE Received : 21/04/2025

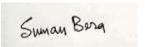
Test Start/End Date : 21/04/2025 - 24/04/2025

#### **NABL Accredited Tests**

Analysis		Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948			
					Min	Max		
NABL Group :	Atmospheric Pollution	Source Noise Le	Source Noise Levels (Excluding vibration) DG Noise level					
DISCIPLINE:	CHEMICAL							
Noise		SO-IN-MUL-TE-049	83.6	dB(A) Leq		90		

Remark: ANALYSED AT SITE

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Suman Bera

**Authorized Signatory** 

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SGS India Pvt. Ltd.

# 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**

- DIP2-180 KW Cold well pump energy saving by installing VFD. (2 running, 1 stand-by).
- Reduce energy consumption and improving power factor by installing Harmonic Filters in DIP-1 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 No.s) at MBF-2 (7.5 kg/cm2 to 5 kg/cm2)
- 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/cm2 to 5 kg/cm2 and unloading pressure setting is 6.7 kg/cm2 (bar) to 6.0 kg/cm2 in CPP#2.
- Reduce the Loading pressure setting from 6.5 kg/cm2 to 5.5 kg/cm2 and unloading pressure setting is 7.0 kg/cm2 (bar) to 6.0 kg/cm2 in CPP#4.
- Electric Boiler for steam requirement in Blast Furnace Boiler PO placed. Delivery expected in Nov-25 week. Commissioning planned by Dec25.

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

- Install Hot Exhaust Air Based Boiler at Cooler Zone and Generate Steam to Use in New DI Plant (9TPH, 10 kg/cm2 pressure and 185 Deg C temperature).
- 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.
- Root Blower installation in BFG line for zero BF Gas flaring from stack. Root Blower installed. Oxygen Analyzer installation will be done during BF-1 Gunning Shutdown.
- Active Harmonics Filter installed and commissioned on dated 4.10.25, taken in line pf improve from 0.75 to 0.99 energy realization is 5Kwhr/ton in LDP.

### **Solid Fuel Saving initiatives**

- Nut Coke consumption with lime & ESP dust coating to improve RI (Reducibility index) for fuel rate reduction.
- Skid upgradation & Pipeline modification in O2 Plant to maintain 6% O2 enrichment in both furnace after MBF-2 start-up
- 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.
- Top temperature reduction by increasing O2%.
- 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, equipment yet to be received.

# **Liquid Fuel Saving initiatives**

- Tower Crane installation is in progress in weigh bridge to reduce excavator engagement time & HSD consumption
- Steam transfer to DIP-2 for Pipe Curing, thereby increasing Power Generation at CPP4.

## PRE- EMPLOYMENT AND PERIODICAL OCCUPATIONAL HEALTH CHECK-UP REPORTS (April -2025 to September-2025)

Time Period	Initial Medical Examination (IME) of Employees & CL	Periodical Medical Examination (PME) of Employees & CL	Remarks
Apr'25 to Sep'25	1430	558	Total=1988
	(Emp=NIL)	(Emp=NIL)	(IME= 1430)
	(CL=1430)	(CL=558)	(PME=558)

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

Year	Fund Allocated (Lakh)	Job Details	Project Budget (Lakh)	Status
		Maheshpur (Muslimpara)- Drinking Water & Sanitation Project, Road & Drainage system	95	Completed
2019	186.04	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	
		Renovation of schools in nearby village(Chunpara)	5	Completed
2022	2022 158.96	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
Total	555		555	

## Major Achievements - (H1, FY'26)



Spend Plan: Rs. 522.00 Lakhs | Total Number of beneficiaries: 40,271 / 50,189

#### Education:

- 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. 4 Panchayats have been declared as Child Labour Free Zone.
- 31 young girls and women enrolled in from the Sambhavana Learning Centres (SLCs) under Project DIYA successfully cleared their Secondary Examination through Rabindra Mukt Vidyalay (Open School).

#### Livelihood (Skills)

- 1. 205 youth completed short term skill training across eight trades at Multi Skilling Centre Midanapore, Out of which 196 (95.61%) trainees are placed.
- 21 GNM trainees and 04 BSc Nursing trainees are continuing their training Program. 09 GNM trainees to complete training by December 2025.
- Six (6) youth including one (1) girl joined Diploma Engineering training program 2025 at Tata Steel Technical Institute Burmamines. Currently total 16
  trainees from Kharagpur unit are undergoing the training.

#### Livelihood (Agriculture)

- 1. 907 farmers are benefitting under various agricultural interventions including fish rearing, vegetable cultivation, mushroom cultivation etc.
- Public entitlement worth ₹11.00 Lakhs unlocked in the form of agricultural inputs through various Govt. Departments i.e. ATMA and BKSY (Bengal Krishi Sech Yojona), benefitting 379 farmers.
- Three polyhouses, each covering the area of 192 Sq.mt. has been introduced to Improve agricultural productivity, raising vegetable nursery and growing exotic vegetable.

#### Sports

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



#### Stories across locations - KGP (Education)





Sambhavana Learning Centres students under Project DIYA passed their Secondary Examination through Rabindra Mukt Vidyalaya.



Van Mahotsav celebrated in all 5 schools Under Green School Project in association with District Forest dept. and Horticulture Department.



Under the Education Signature Project, Welcome Ceremony has been introduced in govt. schools of KGP 1 block to greet teachers & children after summer vacation.



3 centers have been started under the Adult Literacy Project to impart functional literacy to rural women

#### **TATA STEEL FOUNDATION**

#### Stories across locations - KGP (Livelihood - Agriculture)





3 polyhouses have been constructed at Kharagpur, each having an area of 192 Sq mt. These will be used as nursery for saplings and for growing exotic vegetables.



89 Vertical and horizontal trellis structured with polythene mulching at 12 villages covering 3 Gram Panchayats.



7 Sprinkler Irrigation system installed in 4 villages in Kharagpur area through Govt Convergence program



Under the Integrated Farming System, "40,000 KGs of vegetable produced and sold in local & wholesale market. Fetching over Rs. 10.00 Lakhs of earning to farmers.

#### Stories across locations - KGP (Livelihood - Agriculture)



6050 Fruit bearing plants has been distributed and fruit orchard created in 35 acres of land across 22 villages with 186 farmers.



260 farmers benefitted through govt schemes like ATMA , schemes for irrigation etc.



38 trellis has been structured to promote vine crops across 12 villages



Promotion of Oyester mushroom farming with 252 women across 22 villages.



5 Nursery ponds have been created with 267 KGs Fingerlings

#### **TATA STEEL FOUNDATION**

#### Stories across locations...KGP (Livelihood - Skill)



205 youth have completed short term skill training across eight trades at MSC Midanapore with 196 (95.61%) trainees are placed by Oct. 2025.



Six (6) youth including one (1) girl joined diploma Engineering training program 2025 at Tata Steel Technical Institute Jamshedpur.



World youth Skill Day celebrated at MSC Midnapore around the theme "Youth empowerment through Al and digital skills"



A safety session was conducted for MSC learners by Head Safety-TSMD on the topic of Emergency Safety. It was attended by over 100 learners and teachers of MSC Midnapore.

#### Stories across locations...KGP (Employee Volunteering)





Blood Donation conducted in collaboration with OHC, Metaliks Division. 72 employees came forward for the cause.



Tree plantation at Risha village, led by Chief- Operations, Metaliks Division, participation by Union representatives and employees.



Employees volunteered with school children to make seed balls



Seed-bombing Activity undertaken by employees to contribute towards the green cover. The seed-balls were also made by the employees.

**TATA STEEL FOUNDATION** 

## TATA STEEL



## **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.

- 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** Mr. TV Narendran (CEO&MD) Mr. Rajiv Mangal (VP- Safety, Health & Sustainability) Mr. Alok Krishna (Executive In Charge-Metaliks Division) Dr. Amit Ranjan Chakraborty (Chief Environment Management) Mr. Ujjal Ghosh Mr. Ravi Ranjan Prasoon (Chief Operations- IM &DIP) (Head Environment) Mr. Anand Soni Mr. Bablu Dutta Mr. Shiladitya Ghosh (Manager Environment, GHG, Legal) (Sr. Manager Environment) (Area Manager Environment)

#### Environment protection measures in FY'26

S.N.	Description of environment protection measure executed/ in advanced stage of completion in	Investment
	FY'26	Amount
		(₹ in lakh) (order
		placed/
		expenditure made)
1.	Install sinter cooler WHRB (9TPH) 10.5 Kg/cm2 to generate & supply stream for DIP	700.0
	-2 curing therefore save BFG & generate 1.6 MW power- Under construction	
2.	Installing Coke drying System 25 TPH at RMHS#1 bunker by using hot exhaust gas	900.0
	of Sinter Cooler zone for moisture reduction.	
3.	Installation of Sewage Treatment Plant 30 KLD for domestic sewage water treatment	99.9
4.	Installation, commissioning done for Reverse Osmosis (RO) Plant 30 m3 per hr. at Ductile Iron Pipe Unit.	41.3
5.	Installation of Fanless & finless cooling tower (In DIP unit completed & under construction of Ironmaking unit)	150.0
6.	Installation of Syn gas plant for use in Sinter making process in place of Blast	350.0
	Furnace Gas	
7.	Hiring of truck mounted fog canon system for water sprinkling to control fugitive	16.06
	dust for Raw material Stock, inside and out side plant road.	
8.	CMC of CAAQMS	42.3
9.	CMC & Calibration of CEMS by OEM	80.0
10.	Environmental monitoring through accredited agency	11.8
11.	Installation of grid connected battery less 1.8 MW solar power system at DIP-2 unit	700.0
12.	Installation of Sonic Soot Blowing technology for increasing the collecting efficiency	4.4
	in Head ESP at Sinter Plant	
13.	Enhancing Bag Filter Performance of RFP by Installation of Sonic Soot Blowing	1.9
	Technology	
14.	Tail ESP upgradation by HFTR installation for performance enhancement and	78.0
	emission control	100.0
15.	Electrical Energy Conservation initiatives through power generation through	180.0
	microturbine with PRDS unit in CPP-2	( )
16.	Green belt augmentation (2316 nos. of saplings) inside plant & for plantation at	6.0
4.5	nearby community (9361 nos. of saplings) from Apr25 to Sep25	F 0
17.	Wind shelter fencing is constructed near Iron ore yard & horizontal deployment	5.0
18.	IOT Based Smart Ultrasonic Water Flow Meters Installation	26.0
19.	Installation of micro turbine with pressure reducing system	210.0
20.	Upgradation of Induced Draft (ID) fan at tail side of Electrostatic Precipitator (ESP) in Sinter Plant	74.0
21.	Hiring of Road Sweeping Machine (DULEVO- 5000) for reduction of fugitive dust on inside plant road.	78.0
	<u> </u>	

#### **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 MET	TALIKS LIMITED			PI/TMLKI23-18	
Revision	sion Description		Reviewed	Approved	Date
0	0 Environmental Audit Report		NG	SB	18-10-2023

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ENVIRONMENTAL AUDIT PI/TMLKI23-18 Rev No. 0













CIN No. U74900WB2016PTC209098

Date: 18-10-2023

Ref: PI/TMLKI23-18

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@tatametaliks.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 — Gol).

Our Team of 04 Auditors had carried out the aforesaid Audit with site-visit at your Plant during  $03 \sim 05$  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 Garguly

NIRMALYA GANGULY Principal Consultant +919891079788

nirmalya@prayuktigroup.com

Corporate Office: 323A, Motilal Gupta Road, Kolkata – 8, INDIA Tel: (91) 8697377923 Email: <u>info@prayuktigroup.com</u> Site Office: 206, Orchid–5, Green Earth City, Raipur, C.G., India Tel: (91) 79990 99410 Email: rpr@pravuktigroup.com Representative Offices In : Bangladesh, UAE, Qatar, Canada

ENVIRONMENTAL AUDIT PI/TMLKI23-18 Rev No. 0







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 Kolkata Office: CG-229, Sector II, Salt Lake, Kolkata -700091, Ph: +91-33-40089145, Email: 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

Clarish Suguple.

Pune: +91-20-2528 13 38 - pune@ultratech.in ● Kochi: +91-484-211 42 52 - kochi@ultratech.in ● Singapore: +65-6754 81 89 - singapore@ultratech.in www.ultratech.in





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THE TELEGRAPH CALCUTTA FRIDAY 1 FEBRUARY 2019





#### TATA METALIKS LTD.

CIN: L27310WB1990PLC050000

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

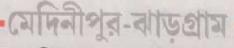
Vice President - Engineering & Projects

## IN KOLKATA

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

Online Kt/V Estimation

कारका क्षेत्र द्वारा ५ (प्रश्नवृत्ति ६००५)







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#### সিনেমাটা জীবন না হলেও, বিশ্বজিংবাবর জীবনের অনেকটাই কিন্তু সিনেমার মত

রকারী পর্যন্ত মতিনার কামসার মুখ্য নাম, জারার ন্যুস্থানা পরিয়োলে ব্যবস উল্লেখ হয় প্রকৃতি, মতে वर्तिन व वान्यत्य निर्विष्ठ र गञ्चारा (नीपार्श्वर का भाग)

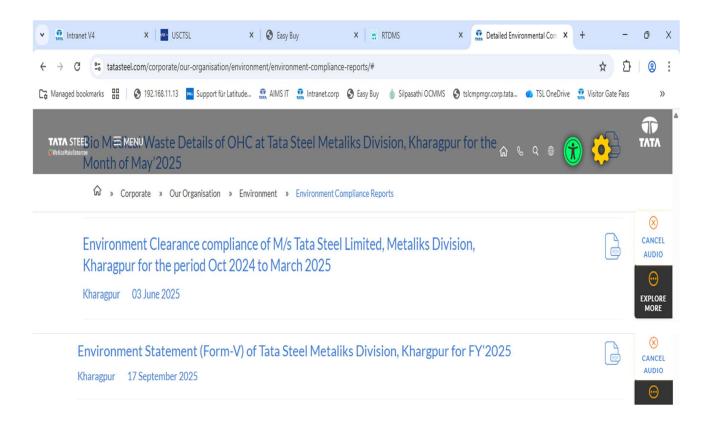
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मानक स्रोतन में निर्माण सम्प्रमा अप्रमान करते की। एतम बार में निर्माण व्याप क्षा एक का एक करन करती (त्रभाव प्रश्निका क्या किया केवरिय एका एका क्या करवा पाट प्राप्ति मेश्रव १९०० में सावन (मार्चना प्रदेशा राष्ट्र निर्देश करा मधीव विद्यापन प्रदेश कीर कर भारत अवार स्थान काम जिल्ला प्रतित्व रहि बाज -"SET & TONY OF PERSONNEL WHEN THE BRIDGE"

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#### Annexure-20



5/21/25, 1:13 PM Home Page

Your (Half Yearly Compliance Report) has been Submitted with following details		
Proposal No	IA/WB/IND/21443/2024	
Compliance ID	127467140	
Compliance Number(For Tracking)	EC/M/COMPLIANCE/127467140/2025	
Reporting Year	2025	
Reporting Period	01 Jun(01 Oct - 31 Mar)	
Submission Date	21-05-2025	
RO/SRO Name	Shri Senthil Kumar Sampath	
RO/SRO Email	agmu156@ifs.nic.in	
State	WEST BENGAL	
RO/SRO Office Address	Integrated Regional Offices, Kolkata	
Note:- SMS and E-Mail has been sent to Shri Senthil Kumar Sampath, WEST BENGAL with Notification to Project Proponent.		