



Ref No. TSLMD/ENV/25-05/15

Date: 20/05/2025

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.
2. Transfer of EC granted by MoEF&CC vide F.No J-11011/377/2013-IA-II(I) dated 21.11.2024 (EC Identification No. EC24A1001WB5644452T) from Tata Metaliks Limited to Tata Steel Limited, Metaliks Division.

Dear Sir,

Please find enclosed the Six Monthly Compliance report (October'24 to March'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 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
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TATA STEEL LIMITED

Half Yearly EC Compliance Report of Expansion of Hot Metal from 0.5 to 0.75 MTPA, DI Pipe from 0.3 to 0.5 MTPA and 0.1 MTPA casting & fittings by M/s Tata Steel Limited, Metaliks Division (Formerly M/s Tata Metaliks Limited) at village Maheshpur, Paschim Medinipur District, West Bengal vide letter no. F.No. J-11011/377/2013-IA.II(I) dated 28.01.2019 & further amendment dated 27.01.2021 for the period Oct'24 to Mar'25

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.

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iii.	The project proponent shall install Continuous Ambient Air Quality monitoring for monitoring of common/ criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120°each), covering upwind and downwind directions.	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 six-monthly 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/24-11/44 dtd.26.11.2024
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#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	Complied. Three mobile road sweeping machines (one large sized (DULEVO 5000) and two small sized have been

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	provided to clean plant roads, shop floors, roofs, regularly.	deployed for cleaning of plant roads. Photograph is attached in Annexure-5 . Housekeeping is being done on regular basis by manually also on roads, shop floors, roofs.
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 into the nearby main course. All the waste water is being treated & utilized as process make up, dust suppression & washing purpose.

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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. 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 alongwith six- monthly monitoring report.	Complied. Analysis reports of recycled effluent & ground water 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/24-11/44 dtd.26.11.2024.
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 & soak pit.
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.

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viii.	The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.	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. Installation of RO plant 30 m3/hrs is for DIP unit is under progress.
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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 standards. Noise monitoring result at different locations attached in 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.	Not applicable 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.

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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 the plant premises. We have planted 5516 nos. saplings inside the plant & 1888 nos. of saplings at nearby community during FY2024-2025. Every year plantation is being done in available space. However further augmentation & gap filling will continue from time to time. The different species planted are Polythea longifolia, Casullina aquisetifolia, Alstonia scholaris Teccoma stans, Azdirachta indica, Dalbergia sisoo, Mimosops elengi, Cassia fistula, Kath Badam, lagerstroemia (Jarul) 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. Inventorization is being carried out on monthly basis and annualized figures are computed. Program for carbon footprint reduction is also in place as Annexure – 12 for your ready reference.

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VIII. Public hearing and Human health issues:

S.N.	Conditions	Compliance status
i.	Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	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 six-monthly report.	Complied. Tata Steel's Central Environmental Policy is followed by Metaliks division. Copy is enclosed as Annexure-15 .

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iii.	A separate Environmental Cell both at the project and company head level, with qualified personnel shall be set up under the control of senior Executive, who will report directly to the head of the organization.	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 seven days and in addition this shall also be	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 .

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	displayed in the project proponent's website permanently.	
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	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 six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest & Climate Change at environment clearance portal.	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 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/24-09/35 dated: 27.09.2024 and same has been uploaded on the company website (www.tatasteel.com) . 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

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	Pollution Control Board and the State Government.	
ix.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	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 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, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 alongwith their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	Agreed
xvi.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.001
ULR No : TC704724100003152F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 21/10/2024
Sampling Location : NEAR OXYGEN PLANT (ELLENBARRIE)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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				
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	169.79	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	28.9	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	52.9	ug/m3		6000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	788.18	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.002
ULR No : TC704724100003153F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	225.66	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	38.3	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	60.6	ug/m3		6000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	808.59	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.003
ULR No : TC704724100003154F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 21/10/2024
Sampling Location : NEAR PIG IRON YARD
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	273.37	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	41.2	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	69.7	ug/m3		6000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	580.76	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.004
ULR No : TC704724100003155F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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				
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	216.97	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	36.9	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	63.0	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.004-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

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 : 22/10/2024

Sampling Location : NEAR SCRAP YARD

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

Lab Provided Information

Sample Type : WORKZONE

Received : 30/10/2024

Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1103.21	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.005
ULR No : TC704724100003156F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 22/10/2024
Sampling Location : NEAR HEAD ESP
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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 Dioxide (SO2)	IS 5182 (Part 02) : 2006	49.5	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	78.8	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.005-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

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 : 22/10/2024
Sampling Location : NEAR HEAD ESP
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	1359.68	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	5614.29	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.006
ULR No : TC704724100003157F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 22/10/2024
Sampling Location : NEAR IRON ORE YARD
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	544.49	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	44.4	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	71.8	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.006-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

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 : 22/10/2024

Sampling Location : NEAR IRON ORE YARD

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

Lab Provided Information

Sample Type : WORKZONE

Received : 30/10/2024

Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1556.63	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.007
ULR No : TC704724100003158F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 22/10/2024
Sampling Location : DI PLANT DISPATCH YARD
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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				
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	164.58	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	28.0	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	52.2	ug/m3		6000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	438.58	ug/m3		10000

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****End of Report****

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.008
ULR No : TC704724100003159F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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				
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	313.02	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	39.8	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	66.5	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.008-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

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 : 22/10/2024

Sampling Location : NEAR COAL YARD

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

Lab Provided Information

Sample Type : WORKZONE

Received : 30/10/2024

Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1167.17	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.009
ULR No : TC704724100003160F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 22/10/2024
Sampling Location : NEAR TAIL ESP
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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 Dioxide (SO2)	IS 5182 (Part 02) : 2006	50.1	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	80.5	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.009-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

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 : 22/10/2024

Sampling Location : NEAR TAIL ESP

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

Lab Provided Information

Sample Type : WORKZONE

Received : 30/10/2024

Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	1087.47	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	3717.00	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.010
ULR No : TC704724100003161F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 23/10/2024
Sampling Location : SAMPLE PREPARATION ROOM (SDP)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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 Dioxide (SO2)	IS 5182 (Part 02) : 2006	51.8	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	79.1	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.010-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

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 : 23/10/2024
Sampling Location : SAMPLE PREPARATION ROOM (SDP)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	1134.38	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	2018.19	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.011
ULR No : TC704724100003162F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 23/10/2024
Sampling Location : CB # 4 DISCHARGES POINT (RMHS-2)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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 Dioxide (SO2)	IS 5182 (Part 02) : 2006	55.5	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	83.7	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.011-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

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 : 23/10/2024
Sampling Location : CB # 4 DISCHARGES POINT (RMHS-2)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	2878.55	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	16168.84	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.012
ULR No : TC704724100003163F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 23/10/2024
Sampling Location : FS DISCHARGE POINT (RMHS-1)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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 Dioxide (SO2)	IS 5182 (Part 02) : 2006	48.6	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	76.7	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.012-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

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 : 23/10/2024
Sampling Location : FS DISCHARGE POINT (RMHS-1)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	1407.89	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	7113.53	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.013
ULR No : TC704724100003164F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 23/10/2024
Sampling Location : NEAR ZINC COATING
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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 Dioxide (SO2)	IS 5182 (Part 02) : 2006	47.5	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	77.0	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.013-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

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 : 23/10/2024
Sampling Location : NEAR ZINC COATING
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	1088.44	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	2675.47	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.014
ULR No : TC704724100003165F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 23/10/2024
Sampling Location : FS-5 DISCHARGE POINT (RMHS 2)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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 Dioxide (SO2)	IS 5182 (Part 02) : 2006	48.4	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	80.9	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.014-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

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 : 23/10/2024
Sampling Location : FS-5 DISCHARGE POINT (RMHS 2)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	1063.87	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	4696.15	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.015
ULR No : TC704724100003166F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 23/10/2024
Sampling Location : CB # 5 DISCHARGE POINT (RMHS 1)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	966.32	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	42.6	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	74.2	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.015-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

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 : 23/10/2024

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

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

Lab Provided Information

Sample Type : WORKZONE

Received : 30/10/2024

Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	5736.30	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.016
ULR No : TC704724100003167F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 24/10/2024
Sampling Location : SINTER SCREEN FLOOR RMHS-2
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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 Dioxide (SO2)	IS 5182 (Part 02) : 2006	44.9	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	79.1	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.016-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

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 : 24/10/2024
Sampling Location : SINTER SCREEN FLOOR RMHS-2
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	1243.94	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	6215.14	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.017
ULR No : TC704724100003168F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 24/10/2024
Sampling Location : NEAR INDUCTION FURNACE & MAGNESIUM CONV. AREA DIP-1
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	833.51	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	38.6	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	73.2	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.017-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

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 : 24/10/2024

Sampling Location : NEAR INDUCTION FURNACE & MAGNESIUM CONV. AREA DIP-1

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

Lab Provided Information

Sample Type : WORKZONE

Received : 30/10/2024

Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	5088.62	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.018
ULR No : TC704724100003169F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 24/10/2024
Sampling Location : NEAR CAST HOUSE 2
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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 Dioxide (SO2)	IS 5182 (Part 02) : 2006	54.4	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	87.9	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.018-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

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 : 24/10/2024
Sampling Location : NEAR CAST HOUSE 2
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	2153.17	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	9635.70	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.019
ULR No : TC704724100003170F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 24/10/2024
Sampling Location : NEAR CAST HOUSE 1
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	529.53	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	40.1	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	76.0	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.019-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

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 : 24/10/2024

Sampling Location : NEAR CAST HOUSE 1

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

Lab Provided Information

Sample Type : WORKZONE

Received : 30/10/2024

Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	3875.45	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.020
ULR No : TC704724100003171F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 24/10/2024
Sampling Location : NEAR BITUMEN COATING FL-1
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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				
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	147.67	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	25.5	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	59.2	ug/m3		6000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	942.19	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.021
ULR No : TC704724100003172F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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				
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	961.54	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	45.2	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	79.5	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.021-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

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 : 24/10/2024
Sampling Location : NEAR LADDLE PRE HEATING AREA
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	3746.96	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.022
ULR No : TC704724100003173F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 25/10/2024
Sampling Location : NEAR CORE SHOP (DIP-1)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	350.57	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	40.4	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	73.9	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.022-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

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 : 25/10/2024

Sampling Location : NEAR CORE SHOP (DIP-1)

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

Lab Provided Information

Sample Type : WORKZONE

Received : 30/10/2024

Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1628.65	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.023
ULR No : TC704724100003174F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 25/10/2024
Sampling Location : NEAR ZINC COATING FL-3
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	225.60	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	32.9	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	66.2	ug/m3		6000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	572.98	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.024
ULR No : TC704724100003175F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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				
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	332.27	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	38.9	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	69.3	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.024-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

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 : 25/10/2024

Sampling Location : NEAR EXTERNAL COATING FL-3

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

Lab Provided Information

Sample Type : WORKZONE

Received : 30/10/2024

Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1813.23	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.025
ULR No : TC704724100003176F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 : 25/10/2024
Sampling Location : NEAR BITUMEN EXTERNAL COATING FL-4 DIP 1
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	70.88	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	22.6	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	51.8	ug/m3		6000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	653.32	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.026
ULR No : TC704724100003177F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	187.61	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	32.9	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	67.9	ug/m3		6000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	443.86	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.027
ULR No : TC704724100003178F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED
Customer Address : METALIKS DIVISION KHARAGPUR
: SAMRAIPUR, GOKULPUR
City : PASCHIM MEDINIPUR
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR QUALITY MONITORING
Sampling Date : 26/10/2024
Sampling Location : NEAR CCM AREA DIP-1
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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				
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	684.01	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	43.8	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	85.8	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.027-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED

Customer Address : METALIKS DIVISION KHARAGPUR

: SAMRAIPUR, GOKULPUR

City : PASCHIM MEDINIPUR

Postal Code : 721301

Country : INDIA

Sample Description : WORKZONE AIR QUALITY MONITORING

Sampling Date : 26/10/2024

Sampling Location : NEAR CCM AREA DIP-1

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

Lab Provided Information

Sample Type : WORKZONE

Received : 30/10/2024

Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1464.25	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.028
ULR No : TC704724100003179F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED
Customer Address : METALIKS DIVISION KHARAGPUR
: SAMRAIPUR, GOKULPUR
City : PASCHIM MEDINIPUR
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR QUALITY MONITORING
Sampling Date : 26/10/2024
Sampling Location : NEAR CCM AREA DIP -2
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	206.62	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	22.3	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	48.0	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.028-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED

Customer Address : METALIKS DIVISION KHARAGPUR

: SAMRAIPUR, GOKULPUR

City : PASCHIM MEDINIPUR

Postal Code : 721301

Country : INDIA

Sample Description : WORKZONE AIR QUALITY MONITORING

Sampling Date : 26/10/2024

Sampling Location : NEAR CCM AREA DIP -2

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

Lab Provided Information

Sample Type : WORKZONE

Received : 30/10/2024

Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1002.18	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.029
ULR No : TC704724100003180F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED
Customer Address : METALIKS DIVISION KHARAGPUR
: SAMRAIPUR, GOKULPUR
City : PASCHIM MEDINIPUR
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR QUALITY MONITORING
Sampling Date : 26/10/2024
Sampling Location : NEAR MAGNESIUM CONVERTER AREA (DIP 2)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	223.99	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	28.6	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	57.4	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.029-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED

Customer Address : METALIKS DIVISION KHARAGPUR

: SAMRAIPUR, GOKULPUR

City : PASCHIM MEDINIPUR

Postal Code : 721301

Country : INDIA

Sample Description : WORKZONE AIR QUALITY MONITORING

Sampling Date : 26/10/2024

Sampling Location : NEAR MAGNESIUM CONVERTER AREA (DIP 2)

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

Lab Provided Information

Sample Type : WORKZONE

Received : 30/10/2024

Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1250.71	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.030
ULR No : TC704724100003181F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED
Customer Address : METALIKS DIVISION KHARAGPUR
: SAMRAIPUR, GOKULPUR
City : PASCHIM MEDINIPUR
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR QUALITY MONITORING
Sampling Date : 26/10/2024
Sampling Location : NEAR ZINC COATING FL-4 (DIP 2)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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				
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	79.56	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	20.3	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	42.7	ug/m3		6000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	323.60	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.031
ULR No : TC704724100003182F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	93.47	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	24.3	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	52.9	ug/m3		6000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	654.06	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.032
ULR No : TC704724100003183F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED
Customer Address : METALIKS DIVISION KHARAGPUR
: SAMRAIPUR, GOKULPUR
City : PASCHIM MEDINIPUR
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR QUALITY MONITORING
Sampling Date : 28/10/2024
Sampling Location : NEAR SINTER BUILDING
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	183.11	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	35.5	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	73.5	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.032-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED
Customer Address : METALIKS DIVISION KHARAGPUR
: SAMRAIPUR, GOKULPUR
City : PASCHIM MEDINIPUR
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR QUALITY MONITORING
Sampling Date : 28/10/2024
Sampling Location : NEAR SINTER BUILDING
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1076.40	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.033
ULR No : TC704724100003184F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED
Customer Address : METALIKS DIVISION KHARAGPUR
: SAMRAIPUR, GOKULPUR
City : PASCHIM MEDINIPUR
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR QUALITY MONITORING
Sampling Date : 28/10/2024
Sampling Location : NEAR ZINC COATING FL 5 (DIP-2)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	286.89	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	40.6	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	73.5	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.033-B

Issue Date : 12/11/2024

JOE No : KE24-001944

Report Control No : KER0000227609

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR QUALITY MONITORING

Customer Name : TATA STEEL LIMITED

Customer Address : METALIKS DIVISION KHARAGPUR

: SAMRAIPUR, GOKULPUR

City : PASCHIM MEDINIPUR

Postal Code : 721301

Country : INDIA

Sample Description : WORKZONE AIR QUALITY MONITORING

Sampling Date : 28/10/2024

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

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

Lab Provided Information

Sample Type : WORKZONE

Received : 30/10/2024

Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	1189.24	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001944.034
ULR No : TC704724100003185F
Report Control No : KER0000227609

Issue Date : 12/11/2024
JOE No : KE24-001944

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 Location : NEAR CPP-4 AREA
Sampling Date : 29/10/2024
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

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					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	153.03	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	26.3	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	46.9	ug/m3		6000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4)	555.42	ug/m3		10000

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CONTINUOUS AMBIENT AIR QUALITY MONITORING STATION



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

Month	Oct'24	Nov'24	Dec'24	Jan'25	Feb'25	Mar'25	Limit
PM ₁₀ (µg/m ³)	64.8	129.9	137.3	135.1	87.1	67.4	100
PM _{2.5} (µg/m ³)	40.2	81.4	86.2	86.0	53.7	43.0	60
SO ₂ (µg/m ³)	11.7	11.5	19.5	13.5	14.6	20.5	80
NO ₂ (µg/m ³)	22.3	27.8	27.9	29.5	19.4	18.3	80
CO (mg/m ³)	0.99	0.55	0.36	1.01	0.53	0.48	2
O ₃ (µg/m ³)	41.4	32.8	42.1	40.7	44.0	28.5	180

Online Stack Emission (CEMS) Monthly Average Report								
SL No	Unit	Month	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
		Location/Stack connected to	Dust/PM (mg/Nm ³)	Dust/PM (mg/Nm ³)	Dust/PM (mg/Nm ³)	Dust/PM (mg/Nm ³)	Dust/PM (mg/Nm ³)	Dust/PM (mg/Nm ³)
1	Iron Making	MBF Stove - I	1.93	2.35	1.78	5.46	9.00	5.00
2		MBF Stove - II	2.08	2.39	2.92	6.28	4.51	2.13
3		MBF#1- Casthouse Fume extraction System	1.59	1.72	1.42	1.23	2.65	12.29
4		CPP-2 Boiler (BFG fired)	11.56	9.12	8.35	8.55	6.66	2.79
5		Sinter Head ESP	29.25	36.46	42.83	38.17	29.56	27.99
6		Sinter Tail ESP	2.61	1.14	7.76	7.89	13.88	17.20
7		RFP bag filter Sinter plant	1.15	1.09	5.72	12.19	12.19	4.00
8		Flux crusher stack	1.15	2.41	3.62	3.16	2.89	2.43
9		RMHS-1 Sinter storage bin	2.12	9.71	5.24	6.76	9.31	4.63
10		RMHS-2 Sinter storage bin	7.16	7.63	4.41	2.44	22.60	2.71
11		CPP#4	36.00	32.28	32.28	35.31	35.00	28.29
12		MBF#2- Casthouse Fume extraction System	2.02	2.29	2.24	4.00	7.87	15.89
13	Ductile Iron Pipe (Small Dia Pipe Unit)	MGT & IF (Common) Stack	8.44	7.57	3.87	2.28	2.17	2.35
14		Zn Coating Stack FL-1	1.90	2.49	2.53	2.87	2.12	1.82
15		Barrel & Socket Grinders Stack	0.00	1.12	1.00	1.00	2.27	2.55
16		Zn Coating Stack FL-2	4.31	5.15	5.12	4.87	7.39	8.87
17		Zn Coating Stack FL-3	2.32	3.82	6.14	8.31	6.58	6.51
18		Annealing Furnace	1.00	1.55	1.00	4.91	4.91	1.52
19		WHR Boiler RTPH	0.00	0.00	1.37	3.68	3.68	3.94
20		Sand cleaning system (core shop)	0.00	1.00	1.00	1.21	1.16	1.31
21		Tri-grinding Bag filter FL3	1.00	1.00	2.19	4.70	1.31	1.71
22	Ductile Iron Pipe (Large Dia Pipe Unit)	Induction furnace Stack	1.90	4.13	4.12	4.40	6.02	5.04
23		Magnesium Converter	1.00	2.41	1.96	2.27	2.17	2.08
24		Zn Coating Stack FL-4	12.94	13.09	3.01	4.50	8.41	5.31
25		Tri-grinding Bag filter FL4	3.86	4.67	11.94	9.88	9.49	12.95
26		Zn Coating Stack FL-5	7.90	7.81	5.80	1.42	5.42	1.20
27		Tri-grinding Bag filter FL5	3.58	7.02	8.63	6.66	4.89	5.72
28		Annealing Furnace Air Chimney flue gas exit	3.55	3.94	5.04	5.16	3.59	1.00
29		Annealing Furnace BFG Chimney	6.29	3.67	3.67	6.14	7.25	5.87
30		Boiler RTPH	1.00	1.30	1.04	2.14	7.55	1.00
31		Sand cleaning system (core shop)	3.47	4.48	4.90	4.29	3.86	3.89
32		Mould shop	4.17	4.28	4.06	5.34	4.56	4.56



Test Report



TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001954.001
 ULR No : TC704724100003104F
 Report Control No : KER0000227327

Issue Date : 06/11/2024
 JOE No : KE24-001954

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 Date : 21/10/2024 15:00 - 15:50hrs
 Sampling Location : HEAD ESP STACK (SINTER PLANT)
 Sampling Method : SO-IN-MUL-TE-176
 Stack Connected to : HEAD ESP STACK (SINTER PLANT)
 Emission Due to : COMBUSTION OF BFG (SINTER PRODUCTION)
 Height of Stack from : 45.0M
 Ground Level :
 Port Hole Available : 02
 Pollution Control : ESP
 Device :
 Diameter of Stack : 2.3 M
 Construction : MS
 Material of Stack :
 Type of Stack : Circular
 Height of Sampling : 40.0M
 Point from GL :
 Platform & Ladder at : Yes
 Stack :

Lab Provided Information

Sample Type : FLUE GAS
 Received : 01/11/2024
 Test Start/End Date : 01/11/2024 - 05/11/2024

Annexure 4 (a)

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Carbon Dioxide (CO2)	USEPA METHOD 3A	5.6	%		
DISCIPLINE: CHEMICAL					

Page 1 of 2

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001954.001
ULR No : TC704724100003104F
Report Control No : KER0000227327

Issue Date : 06/11/2024
JOE No : KE24-001954

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	2.82	%		
Temperature	IS 11255 Part 3:1985	129	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	18.51	m/s		
Flow rate	IS 11255 Part 3:1985	196041	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	14.9	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	112.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	239.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	0.5	%		0
Particulate Matter (PM)	IS:11255 (Part-1):1985	39.77	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 : KE24-001954.002
ULR No : TC704724100003105F
Report Control No : KER0000227327

Issue Date : 06/11/2024
JOE No : KE24-001954

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 Date : 21/10/2024 16:00- 16:50HRS
Sampling Location : TAIL ESP STACK (SINTER PLANT)
Sampling Method : SO-IN-MUL-TE-176
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 : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Carbon Dioxide (CO2)	USEPA METHOD 3A	<0.1	%		
DISCIPLINE: CHEMICAL					

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001954.002
ULR No : TC704724100003105F
Report Control No : KER0000227327

Issue Date : 06/11/2024
JOE No : KE24-001954

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	2.27	%		
Temperature	IS 11255 Part 3:1985	118	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	14.07	m/s		
Flow rate	IS 11255 Part 3:1985	156909	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)	9.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		0
Particulate Matter (PM)	IS.11255 (Part-1):1985	30.41	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 : KE24-001954.003
ULR No : TC704724100003106F
Report Control No : KER0000227327

Issue Date : 06/11/2024
JOE No : KE24-001954

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 Date : 22/10/2024 11:10 - 12:00HRS
Sample Description : FLUE GAS
Sampling Location : FLUX BAG FILTER
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : FLUX BAG FILTER
Emission Due to : PROCESS ACTIVITY(LIMESTONE.DOLOMITE, PROXINITE CRUSHING)
Height of Stack from : 30M
Ground Level
Port Hole Available : 01
Pollution Control : BAG FILTER
Device
Diameter of Stack : 1.1M
Construction : MS
Material of Stack
Type of Stack : Circular
Height of Sampling : 17M
Point from GL
Platform & Ladder at : Yes
Stack

Lab Provided Information

Sample Type : FLUE GAS
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001954.003
ULR No : TC704724100003106F
Report Control No : KER0000227327

Issue Date : 06/11/2024
JOE No : KE24-001954

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	2.22	%		
Temperature	IS 11255 Part 3:1985	39	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	11.25	m/s		
Flow rate	IS 11255 Part 3:1985	35417	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	%		0
Particulate Matter (PM)	IS.11255 (Part-1):1985	5.50	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 : KE24-001954.004
ULR No : TC704724100003107F
Report Control No : KER0000227327

Issue Date : 06/11/2024
JOE No : KE24-001954

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 Date : 22/10/2024 12:15 - 13:00HRS
Sampling Location : RFP BAG FILTER STACK (SINTER PLANT)
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : RPF BAG FILTER
Emission Due to : PROCESS ACTIVITY (RAW MATERIAL PROCESS)
Height of Stack from : 30M
Ground Level
Port Hole Available : 1
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 : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001954.004
ULR No : TC704724100003107F
Report Control No : KER0000227327

Issue Date : 06/11/2024
JOE No : KE24-001954

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group : Atmospheric Pollution		Stack emission			
Moisture	IS 11255 Part 3:1985	2.03	%		
Temperature	IS 11255 Part 3:1985	44	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	12.16	m/s		
Flow rate	IS 11255 Part 3:1985	61148	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	%		0
Particulate Matter (PM)	IS.11255 (Part-1):1985	4.73	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.

Report No : KE24-001954.005
ULR No : TC704724100003108F
Report Control No : KER0000227327

Issue Date : 06/11/2024
JOE No : KE24-001954

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 : 22/10/2024 16:00 - 16:50HRS
Sampling Location : MBF-2 CAST HOUSE FES TACK
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 : 2.3M
Construction : MS
Material of Stack
Type of Stack : Circular
Height of Sampling : 19M
Point from GL
Platform & Ladder at : Yes
Stack

Lab Provided Information

Sample Type : FLUE GAS
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001954.005
ULR No : TC704724100003108F
Report Control No : KER0000227327

Issue Date : 06/11/2024
JOE No : KE24-001954

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Temperature	IS 11255 Part 3:1985	41	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	8.21	m/s		
Flow rate	IS 11255 Part 3:1985	112378	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.7	%		
Sulphur Dioxide (SO2)	USEPA METHOD 5 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	6.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		0
Particulate Matter (PM)	IS 11255 (Part-1):1985	8.99	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 : KE24-001954.006
ULR No : TC704724100003109F
Report Control No : KER0000227327

Issue Date : 06/11/2024
JOE No : KE24-001954

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 : 23/10/2024 10:00 - 10:50HRS
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 : 2M
Construction : MS
Material of Stack
Type of Stack : Circular
Height of Sampling : 38.5M
Point from GL
Platform & Ladder at : Yes
Stack

Lab Provided Information

Sample Type : FLUE GAS
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001954.006
ULR No : TC704724100003109F
Report Control No : KER0000227327

Issue Date : 06/11/2024
JOE No : KE24-001954

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Temperature	IS 11255 Part 3:1985	40	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	11.45	m/s		
Flow rate	IS 11255 Part 3:1985	118440	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.7	%		
Sulphur Dioxide (SO2)	USEPA METHOD 5 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	6.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		0
Particulate Matter (PM)	IS 11255 (Part-1):1985	12.48	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 : KE24-001954.007
ULR No : TC704724100003110F
Report Control No : KER0000227327

Issue Date : 06/11/2024
JOE No : KE24-001954

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 : 23/10/2024 11:00 - 10:50HRS
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 : 40.0 M
Ground Level
Port Hole Available : 02
Pollution Control : BAG FILTER
Device
Diameter of Stack : 2.3 M
Construction : MS
Material of Stack
Type of Stack : Circular
Height of Sampling : 25.0M
Point from GL
Platform & Ladder at : Yes
Stack

Lab Provided Information

Sample Type : FLUE GAS
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001954.007
ULR No : TC704724100003110F
Report Control No : KER0000227327

Issue Date : 06/11/2024
JOE No : KE24-001954

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	2.02	%		
Temperature	IS 11255 Part 3:1985	38	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	10.72	m/s		
Flow rate	IS 11255 Part 3:1985	148121	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.7	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	3.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	9.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		0
Particulate Matter (PM)	IS:11255 (Part-1):1985	8.09	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 : KE24-001954.008
ULR No : TC704724100003111F
Report Control No : KER0000227327

Issue Date : 06/11/2024
JOE No : KE24-001954

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 : 23/10/2024 14:00 - 14:50HRS
Sampling Location : SINTER STORAGE BIN STACK (RMHS#2)
Stack Connected to : SINTER STORAGE BIN STACK (RMHS#2)
Emission Due to : PROCESS ACTIVITY
Height of Stack from : 30.0 M
Ground Level
Port Hole Available : 02
Pollution Control : BAG FILTER
Device
Diameter of Stack : 1.1M
Construction : MS
Material of Stack
Type of Stack : Circular
Height of Sampling : 25.0M
Point from GL
Platform & Ladder at : Yes
Stack

Lab Provided Information

Sample Type : FLUE GAS
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001954.008
ULR No : TC704724100003111F
Report Control No : KER0000227327

Issue Date : 06/11/2024
JOE No : KE24-001954

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	2.02	%		
Temperature	IS 11255 Part 3:1985	38	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	11.24	m/s		
Flow rate	IS 11255 Part 3:1985	35526	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)	5.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		0
Particulate Matter (PM)	IS.11255 (Part-1):1985	4.49	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 : KE24-001946.001
ULR No : TC704724100003089F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

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 : 28/10/2024 11:30 - 12:15hrs
Sampling Location : ZINC COATING M/C FL-1 STACK
Stack Connected to : ZINC COATING M/C FL-1
Emission Due to : DEDUSTING PROCESS
Height of Stack from : 36 M
Ground Level
Port Hole Available : 01
Pollution Control : BAG FILTER
Device
Diameter of Stack : 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 : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001946.001
ULR No : TC704724100003089F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	1.98	%		
Temperature	IS 11255 Part 3:1985	43	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	6.51	m/s		
Flow rate	IS 11255 Part 3:1985	13575	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	<0.2	%		1
Particulate Matter (PM)	IS.11255 (Part-1):1985	10.01	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.

Report No : KE24-001946.002
ULR No : TC704724100003090F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

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 : 28/10/2024 12:25 - 13:20HR
Sampling Location : BARREL & SOCKET GRINDING FL-1 STACK
Stack Connected to : BARREL & SOCKET GRINDING FL-1
Emission Due to : DEDUSTING PROCESS
Height of Stack from : 30M
Ground Level
Port Hole Available : 02
Pollution Control : BAG FILTER
Device
Diameter of Stack : 0.9 M
Construction : MS
Material of Stack
Type of Stack : Circular
Height of Sampling : 220M
Point from GL
Platform & Ladder at : Yes
Stack

Lab Provided Information

Sample Type : FLUE GAS
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001946.002
ULR No : TC704724100003090F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	1.89	%		
Temperature	IS 11255 Part 3:1985	38	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	8.32	m/s		
Flow rate	IS 11255 Part 3:1985	17646	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	<0.2	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	10.45	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 : KE24-001946.003
ULR No : TC704724100003091F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

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 : 28/10/2024 14:15 -15:00HRS
Sampling Location : ZINC COATING M/C FL-2 STACK
Stack Connected to : ZINC COATING M/C FL-2
Emission Due to : DEDUSTING PROCESS
Height of Stack from : 30M
Ground Level
Port Hole Available : 02
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 : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

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

Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001946.003
ULR No : TC704724100003091F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	1.59	%		
Temperature	IS 11255 Part 3:1985	39	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	5.60	m/s		
Flow rate	IS 11255 Part 3:1985	21110	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	<0.2	%		1
Particulate Matter (PM)	IS.11255 (Part-1):1985	10.95	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 : KE24-001946.004
ULR No : TC704724100003092F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

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 : 28/10/2024 15:05 - 15:45HRS
Sampling Location : TRI GRINDING FL-2 STACK
Stack Connected to : TRI GRINDING FL-2 STACK
Emission Due to : DEDUSTING PROCESS
Height of Stack from : 30 M
Ground Level
Port Hole Available : 2
Pollution Control : BAG FILTER
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 : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001946.004
ULR No : TC704724100003092F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	1.89	%		
Temperature	IS 11255 Part 3:1985	42	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	5.63	m/s		
Flow rate	IS 11255 Part 3:1985	20959	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	<0.2	%		1
Particulate Matter (PM)	IS.11255 (Part-1):1985	10.44	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 : KE24-001946.005
ULR No : TC704724100003093F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

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 : 28/10/2024 15:50 -16:30HRS
Sampling Location : WHR BOILER STACK (DIP -1)
Stack Connected to : WHR BOILER
Emission Due to : ANNEALING FURNACE WASTE HEAT
Height of Stack from : 30 M
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 : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001946.005
ULR No : TC704724100003093F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	2.8	%		
Temperature	IS 11255 Part 3:1985	196	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	8.19	m/s		
Flow rate	IS 11255 Part 3:1985	17046	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	8.2	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	27.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	19.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS.11255 (Part-1):1985	5.38	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 : KE24-001946.006
ULR No : TC704724100003094F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

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 : 28/10/2024 16:35 - 17:15HRS
Sampling Location : ANNELAING FURNACE STACK
Stack Connected to : ANNELAING FURNACE
Emission Due to : COMBUSTION OF BFG
Height of Stack from : 30.0 M
Ground Level
Port Hole Available : 02
Pollution Control : NIL
Device
Diameter of Stack : 1.2M
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 : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

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

Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001946.006
ULR No : TC704724100003094F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	2.35	%		
Temperature	IS 11255 Part 3:1985	94	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	7.46	m/s		
Flow rate	IS 11255 Part 3:1985	23725	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	8.2	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	22.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	10.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	9.43	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 : KE24-001946.007
ULR No : TC704724100003095F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

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 : 29/10/2024 12:25 - 13:15HRS
Sampling Location : TRI GRINDING FL-3 STACK
Stack Connected to : TRI GRINDING FL-3 BAG FILTER
Emission Due to : DEDUSTING PROCESS
Height of Stack from : 30.0 M
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 : 22.0 M
Point from GL
Platform & Ladder at : Yes
Stack

Lab Provided Information

Sample Type : FLUE GAS
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001946.007
ULR No : TC704724100003095F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	1.89	%		
Temperature	IS 11255 Part 3:1985	44	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	7.16	m/s		
Flow rate	IS 11255 Part 3:1985	6622	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	<0.2	%		1
Particulate Matter (PM)	IS.11255 (Part-1):1985	10.93	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 : KE24-001946.008
ULR No : TC704724100003096F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

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 : 22/10/2024 15:00 - 15:50HRS
Sampling Location : MBG-2 STOVE STACK
Stack Connected to : MBG-2 STOVE
Emission Due to : COMBUSTION OF BFG
Fuel Used : BF GAS
Height of Stack from : 30M
Ground Level
Port Hole Available : 02
Diameter of Stack : 2M
Construction : MS
Material of Stack
Type of Stack : Circular
Height of Sampling : 36.2M
Point from GL
Platform & Ladder at : Yes
Stack

Lab Provided Information

Sample Type : FLUE GAS
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Carbon Dioxide (CO ₂)	USEPA METHOD 3A	<0.2	%		
DISCIPLINE: CHEMICAL					
Temperature	IS 11255 Part 3:1985	175	°C		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001946.008
ULR No : TC704724100003096F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group : Atmospheric Pollution		Stack emission			
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	12.11	m/s		
Flow rate	IS 11255 Part 3:1985	86419	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	4.4	%		
Sulphur Dioxide (SO2)	USEPA METHOD 5 C	42.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	22.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	0.7	%		1
Particulate Matter (PM)	IS 11255 (Part-1):1985	4.06	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 : KE24-001946.009
ULR No : TC704724100003097F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

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 : 23/10/2024 12:00 - 12:50HRS
Sampling Location : MBF-1 STOVE STACK
Stack Connected to : MBF-1 STOVE
Emission Due to : COMBUSTION OF BFG
Fuel Used : BF GAS
Height of Stack from : 45 M
Ground Level
Port Hole Available : 02
Diameter of Stack : 2 M
Construction : MS
Material of Stack
Type of Stack : Circular
Height of Sampling : 36.2 M
Point from GL
Platform & Ladder at : Yes
Stack

Lab Provided Information

Sample Type : FLUE GAS
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Carbon Dioxide (CO ₂)	USEPA METHOD 3A	<0.2	%		
DISCIPLINE: CHEMICAL					
Temperature	IS 11255 Part 3:1985	152	°C		

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001946.009
ULR No : TC704724100003097F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group : Atmospheric Pollution		Stack emission			
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	12.40	m/s		
Flow rate	IS 11255 Part 3:1985	93494	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	5.1	%		
Sulphur Dioxide (SO2)	USEPA METHOD 5 C	<2.6	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.2	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	5.87	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 : KE24-001946.010
ULR No : TC704724100003098F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

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 : 23/10/2024 15:10 - 15:45HRS
Sampling Location : MAGNESIUM CONVERTOR & INDUCTION FURNACE COMMON STACK (DIP 1)
Stack Connected to : MAGNESIUM CONVERTOR & INDUCTION FURNACE BAG FILTER
Emission Due to : DEDUSTING PROCESS
Height of Stack from : 30.0 M
Ground Level
Port Hole Available : 02
Pollution Control : BAG FILTER
Device
Diameter of Stack : 0.7M
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 : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001946.010
ULR No : TC704724100003098F
Report Control No : KER0000227338

Issue Date : 06/11/2024
JOE No : KE24-001946

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	1.9	%		
Temperature	IS 11255 Part 3:1985	41	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	6.48	m/s		
Flow rate	IS 11255 Part 3:1985	8233	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	13.78	mg/Nm3		100

Remark : All parameters are done at site except PM.

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001947.001
ULR No : TC704724100003086F
Report Control No : KER0000227344

Issue Date : 06/11/2024
JOE No : KE24-001947

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 Date : 29/10/2024 11:30 TO 12:15 HRS
Sampling Location : ZINC COATING M/C FL-3 STACK
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : ZINC COATING M/C FL-3 STACK
Emission Due to : DEDUSTING PROCESS
Height of Stack from : 30 M
Ground Level
Height of Sampling : 24 M
Point from GL
Port Hole Available : 02
Pollution Control : BAG FILTER & CYCLONE SEPARATOR
Device
Diameter of Stack : 1.1M
Construction : MS
Material of Stack
Type of Stack : Circular
Platform & Ladder at : Yes
Stack
Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001947.001
ULR No : TC704724100003086F
Report Control No : KER0000227344

Issue Date : 06/11/2024
JOE No : KE24-001947

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	1.98	%		
Temperature	IS 11255 Part 3:1985	41	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	6.64	m/s		
Flow rate	IS 11255 Part 3:1985	20816	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	<0.2	%		1
Particulate Matter (PM)	IS.11255 (Part-1):1985	6.79	mg/Nm3		50

Remark : All parameters are done at site except PM

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001947.002
ULR No : TC704724100003087F
Report Control No : KER0000227344

Issue Date : 06/11/2024
JOE No : KE24-001947

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 Date : 26/10/2024 10:50 TO 11:35HRS
Sampling Location : INDUCTION FURNACE STACK (DIP-2)
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : INDUCTION FURNACE BAG FILTER
Emission Due to : DEDUSTING PROCESS
Height of Stack from : 36M
Ground Level
Height of Sampling : 24M
Point from GL
Port Hole Available : 02
Pollution Control : BAG FILTER & CYCLONE SEPERATOR
Device
Diameter of Stack : 1.1M
Construction : MS
Material of Stack
Type of Stack : Circular
Platform & Ladder at : Yes
Stack
Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

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

Page 1 of 2

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001947.002
ULR No : TC704724100003087F
Report Control No : KER0000227344

Issue Date : 06/11/2024
JOE No : KE24-001947

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	2.03	%		
Temperature	IS 11255 Part 3:1985	58	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	6.83	m/s		
Flow rate	IS 11255 Part 3:1985	20300	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	<0.2	%		1
Particulate Matter (PM)	IS.11255 (Part-1):1985	4.54	mg/Nm3		50

Remark : All parameters are done at site except PM

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001947.003
ULR No : TC704724100003088F
Report Control No : KER0000227344

Issue Date : 06/11/2024
JOE No : KE24-001947

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 Date : 29/10/2024 16.15 TO 17.00 HRS
Sampling Location : ANNEALING FURNACE -2 AIR CHIMNEY (DIP-2)
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : ANNEALING FURNACE -2 AIR CHIMNEY (DIP-2)
Emission Due to : COMBUSTION OF BFG
Height of Stack from : 36M
Ground Level
Height of Sampling : 30M
Point from GL
Port Hole Available : 02
Pollution Control : NIL
Device
Diameter of Stack : 1.3M
Construction : MS
Material of Stack
Type of Stack : Circular
Platform & Ladder at : Yes
Stack
Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

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

Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001947.003
ULR No : TC704724100003088F
Report Control No : KER0000227344

Issue Date : 06/11/2024
JOE No : KE24-001947

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	2.82	%		
Temperature	IS 11255 Part 3:1985	95	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	8.23	m/s		
Flow rate	IS 11255 Part 3:1985	30491	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	8.6	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	46.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	29.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.2	%		1
Particulate Matter (PM)	IS.11255 (Part-1):1985	4.63	mg/Nm3		50

Remark : All parameters are done at site except PM

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001948.001
ULR No : TC704724100003128F
Report Control No : KER0000227380

Issue Date : 06/11/2024
JOE No : KE24-001948

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 : 26/10/2024 10:00 -10:45HRS
Sampling Location : MAGNESIUM TREATMENT CONVERTER STACK (DIP-2)
Stack Connected to : MAGNESIUM TREATMENT CONVERTER BAG FILTER
Emission Due to : DEDUSTING PROCESS
Height of Stack from : 36 M
Ground Level
Port Hole Available : 02
Pollution Control : BAG FILTER AND CYCLONE SEPERATOR
Device
Diameter of Stack : 1.1 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 : 01/11/2024
Test Start/End Date : 01/11/2024 - 06/11/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001948.001
ULR No : TC704724100003128F
Report Control No : KER0000227380

Issue Date : 06/11/2024
JOE No : KE24-001948

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	2.08	%		
Temperature	IS 11255 Part 3:1985	54	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	9.91	m/s		
Flow rate	IS 11255 Part 3:1985	29801	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	<0.2	%		
Particulate matter (PM)	IS 11255 (Part 01) : 1985.	4.1	mg/Nm3		

Remark : All parameters analyzed at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001948.002
ULR No : TC704724100003129F
Report Control No : KER0000227380

Issue Date : 06/11/2024
JOE No : KE24-001948

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 : 26/10/2024 11:50 - 12:35HRS
Sampling Location : ZINC COATING M/C FL-5 STACK (DIP-2)
Stack Connected to : ZINC COATING M/C FL-5
Emission Due to : DEDUSTING PROCESS
Height of Stack from : 36M
Ground Level
Port Hole Available : 02
Pollution Control : BAG FILTER & CYCLONE SEPERATOR
Device
Diameter of Stack : 1.3 M
Construction : MS
Material of Stack
Type of Stack : Circular
Height of Sampling : 26M
Point from GL
Platform & Ladder at : Yes
Stack

Lab Provided Information

Sample Type : FLUE GAS
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 06/11/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001948.002
ULR No : TC704724100003129F
Report Control No : KER0000227380

Issue Date : 06/11/2024
JOE No : KE24-001948

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	2.03	%		
Temperature	IS 11255 Part 3:1985	40	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	5.96	m/s		
Flow rate	IS 11255 Part 3:1985	26167	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	<0.2	%		
Particulate matter (PM)	IS 11255 (Part 01) : 1985.	20.5	mg/Nm3		

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.

Report No : KE24-001948.003
ULR No : TC704724100003130F
Report Control No : KER0000227380

Issue Date : 06/11/2024
JOE No : KE24-001948

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 Date : 26/10/2024 12:40 - 13:15HRS
Sampling Location : TRI GRINDING FL-5 STACK (DIP-2)
Stack Connected to : TRI GRINDING FL-5
Sampling Method : SO-IN-MUL-TE-176
Emission Due to : DEDUSTING PROCESS
Height of Stack from : 36.0 M
Ground Level
Port Hole Available : 02
Pollution Control : BAG FILTER
Device
Diameter of Stack : 0.9 M
Construction : MS
Material of Stack
Type of Stack : Circular
Platform & Ladder at : Yes
Stack
Height of Sampling : 26 M
Point from GL

Lab Provided Information

Sample Type : FLUE GAS
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 06/11/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001948.003
ULR No : TC704724100003130F
Report Control No : KER0000227380

Issue Date : 06/11/2024
JOE No : KE24-001948

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	1.63	%		
Temperature	IS 11255 Part 3:1985	37	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	7.83	m/s		
Flow rate	IS 11255 Part 3:1985	16704	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	<0.2	%		
Particulate matter (PM)	IS 11255 (Part 01) : 1985.	5.1	mg/Nm3		

Remark : All parameters analyzed at site except PM.

Per pro SGS India Private Ltd


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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001948.004
ULR No : TC704724100003131F
Report Control No : KER0000227380

Issue Date : 06/11/2024
JOE No : KE24-001948

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 : 26/10/2024 15:00 - 15:45HRS
Sampling Location : ZINC COATING M/C FL-4 STACK (DIP-2)
Stack Connected to : ZINC COATING M/C FL-4
Emission Due to : DEDUSTING PROCESS
Height of Stack from : 36.0 M
Ground Level
Port Hole Available : 02
Pollution Control : BAG FILTER AND CYCLONE SEPERATOR
Device
Diameter of Stack : 1.65M
Construction : MS
Material of Stack
Type of Stack : Circular
Platform & Ladder at : Yes
Stack
Height of Sampling : 26 M
Point from GL

Lab Provided Information

Sample Type : FLUE GAS
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 06/11/2024

NABL Accredited Tests

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

Page 1 of 2

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001948.004
ULR No : TC704724100003131F
Report Control No : KER0000227380

Issue Date : 06/11/2024
JOE No : KE24-001948

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	2.15	%		
Temperature	IS 11255 Part 3:1985	42	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	5.80	m/s		
Flow rate	IS 11255 Part 3:1985	40708	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	<0.2	%		
Particulate matter (PM)	IS 11255 (Part 01) : 1985.	15.2	mg/Nm3		

Remark : All parameters analyzed at site except PM.

Per pro SGS India Private Ltd


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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001948.005
ULR No : TC704724100003132F
Report Control No : KER0000227380

Issue Date : 06/11/2024
JOE No : KE24-001948

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 : 16/10/2024 15:50- 16:35HRS
Sampling Location : TRI GRINDING FL-4 STACK (DIP-2)
Stack Connected to : TRI GRINDING FL-4 STACK (DIP-2)
Emission Due to : DEDUSTING PROCESS
Height of Stack from : 36.0 M
Ground Level
Port Hole Available : 02
Pollution Control : BAG FILTER
Device
Diameter of Stack : 0.9M
Construction : MS
Material of Stack
Type of Stack : Circular
Platform & Ladder at : Yes
Stack
Height of Sampling : 28 M
Point from GL

Lab Provided Information

Sample Type : FLUE GAS
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 06/11/2024

NABL Accredited Tests

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

Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001948.005
ULR No : TC704724100003132F
Report Control No : KER0000227380

Issue Date : 06/11/2024
JOE No : KE24-001948

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	1.67	%		
Temperature	IS 11255 Part 3:1985	38	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	9.98	m/s		
Flow rate	IS 11255 Part 3:1985	21214	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	<0.2	%		
Particulate matter (PM)	IS 11255 (Part 01) : 1985.	9.8	mg/Nm3		

Remark : All parameters analyzed at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001948.006
ULR No : TC704724100003133F
Report Control No : KER0000227380

Issue Date : 06/11/2024
JOE No : KE24-001948

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 : 26/10/2024 16:40 - 17:15HRS
Sampling Location : CORE SHOP STACK (DIP -2)
Stack Connected to : CORE SHOP BAG FILTER
Emission Due to : DEDUSTING PROCESS
Height of Stack from : 36.0 M
Ground Level
Port Hole Available : 02
Pollution Control : BAG FILTER & CYCLONE SEPERATOR
Device
Diameter of Stack : 0.9 M
Construction : MS
Material of Stack
Type of Stack : Circular
Platform & Ladder at : Yes
Stack
Height of Sampling : 26 M
Point from GL

Lab Provided Information

Sample Type : FLUE GAS
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 06/11/2024

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001948.006
ULR No : TC704724100003133F
Report Control No : KER0000227380

Issue Date : 06/11/2024
JOE No : KE24-001948

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	2.14	%		
Temperature	IS 11255 Part 3:1985	38	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	5.67	m/s		
Flow rate	IS 11255 Part 3:1985	11995	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	<0.2	%		
Particulate matter (PM)	IS 11255 (Part 01) : 1985.	10.5	mg/Nm3		

Remark : All parameters analyzed at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001950.002
ULR No : TC704724100003085F
Report Control No : KER0000227352

Issue Date : 06/11/2024
JOE No : KE24-001950

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 Date : 29.10.2024; 14.30 TO 15.45
Sampling Method : SO-IN-MUL-TE-176
Sampling Location : CPP 4 STACK
Stack Connected to : CPP 4 STACK
Emission Due to : COKE OVEN WASTE HEAT & BFG
Capacity : 15 MW
Running Load : 11.2 MW
Fuel Used : BFG
Fuel Consumption : BFG 20000 NM3/M
Height of Stack from : 40.0 M
Ground Level
Height of Sampling : 30 M
Point from GL
Pollution Control : 02
Device
Diameter of Stack : 2.15 M
Construction : MS
Material of Stack
Type of Stack : Circular
Platform & Ladder at : Yes
Stack

Lab Provided Information

Sample Type : FLUE GAS
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 05/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001950.002
ULR No : TC704724100003085F
Report Control No : KER0000227352

Issue Date : 06/11/2024
JOE No : KE24-001950

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group : Atmospheric Pollution Stack emission					
DISCIPLINE: CHEMICAL					
Temperature	IS 11255 Part 3:1985	157	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	12.260	m/s		
Flow rate	IS 11255 Part 3:1985	106753	Nm3/Hrs		
Carbon Dioxide (CO2)	USEPA METHOD 3A	<0.2	%		
Oxygen (O2)	USEPA (Method 3A)	13.6	%		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.2	%		1
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	176.00	mg/Nm3		
Particulate Matter (PM)	IS:11255 (Part-1&3):1985	32.28	mg/Nm3		150
Nitrogen Oxides	USEPA METHOD (7E)	81.0	mg/Nm3		

Remark : All parameters analysed at site except PM

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****End of Report****

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.001-A
ULR No : TC704724100003187F
Report Control No : KER0000227493

Issue Date : 08/11/2024
JOE No : KE24-001945

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 : 20/10/2024 to 21/10/2024
Sampling Location : MAHESHPUR VILLAGE
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS	
				Min	Max
NABL Group : Atmospheric Pollution	Ambient air				
Benzene	SO-IN-EHS-TE-164	<2.00	ug/m3		05(Annual)
DISCIPLINE: CHEMICAL					
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.1	ug/m3		80
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	7.9	ug/m3		80
Particulate Matter (PM10)	IS 5182 (Part 23) : 2006	68.2	ug/m3		100
Lead (as Pb)	IS:5182 (Part-22):2004	0.03	ug/m3		1.0
Carbon Monoxide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH3)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3		400
Benzo (a) Pyrene	USEPA 8270 C TO - 13A	<0.20	ng/m³		01 (Annual)
Arsenic as As	SO-IN-MUL-TE-075	3.0	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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.001-A
ULR No : TC704724100003187F
Report Control No : KER0000227493

Issue Date : 08/11/2024
JOE No : KE24-001945

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.001-B

Issue Date : 08/11/2024

JOE No : KE24-001945

Report Control No : KER0000227493

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 : 20/10/2024 to 21/10/2024
Sampling Location : MAHESHPUR VILLAGE
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS	
				Min	Max
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL5)	ug/m3		100
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	42.2	ug/m3		60(24 hrs)

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

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****End of Report****

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.002-A
ULR No : TC704724100003188F
Report Control No : KER0000227493

Issue Date : 08/11/2024
JOE No : KE24-001945

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 : 20/10/2024 to 21/10/2024
Sampling Location : GOKULPUR VILLAGE
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS	
				Min	Max
NABL Group : Atmospheric Pollution	Ambient air				
Benzene	SO-IN-EHS-TE-164	<2.00	ug/m3		05(Annual)
DISCIPLINE: CHEMICAL					
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.2	ug/m3		80
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	8.7	ug/m3		80
Particulate Matter (PM10)	IS 5182 (Part 23) : 2006	93.0	ug/m3		100
Lead (as Pb)	IS:5182 (Part-22):2004	0.04	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
Benzo (a) Pyrene	USEPA 8270 C TO - 13A	<0.20	ng/m³		01 (Annual)
Arsenic as As	SO-IN-MUL-TE-075	2.6	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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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.002-A
ULR No : TC704724100003188F
Report Control No : KER0000227493

Issue Date : 08/11/2024
JOE No : KE24-001945

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.002-B

Issue Date : 08/11/2024

JOE No : KE24-001945

Report Control No : KER0000227493

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 : 20/10/2024 to 21/10/2024

Sampling Location : GOKULPUR VILLAGE

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

Lab Provided Information

Sample Type : AMBIENT_AIR

Received : 30/10/2024

Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS	
				Min	Max
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL5)	ug/m3		100
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	47.5	ug/m3		60(24 hrs)

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.003-A
ULR No : TC704724100003189F
Report Control No : KER0000227493

Issue Date : 08/11/2024
JOE No : KE24-001945

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 : 21/10/2024 to 22/10/2024
Sampling Location : NEAR DUCTURA HOUSE
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS	
				Min	Max
NABL Group : Atmospheric Pollution	Ambient air				
Benzene	SO-IN-EHS-TE-164	<2.00	ug/m3		05(Annual)
DISCIPLINE: CHEMICAL					
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.6	ug/m3		80
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	9.1	ug/m3		80
Particulate Matter (PM10)	IS 5182 (Part 23) : 2006	98.3	ug/m3		100
Lead (as Pb)	IS:5182 (Part-22):2004	0.04	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
Benzo (a) Pyrene	USEPA 8270 C TO - 13A	<0.20	ng/m³		01 (Annual)
Arsenic as As	SO-IN-MUL-TE-075	4.2	ng/m³		06(Annual)
Nickel as Ni	SO-IN-MUL-TE-075	2.8	ng/m³		20(Annual)

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.003-A
ULR No : TC704724100003189F
Report Control No : KER0000227493

Issue Date : 08/11/2024
JOE No : KE24-001945

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.003-B

Issue Date : 08/11/2024

JOE No : KE24-001945

Report Control No : KER0000227493

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 : 21/10/2024 to 22/10/2024
Sampling Location : NEAR DUCTURA HOUSE
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS	
				Min	Max
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL5)	ug/m3		100
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	30.0	ug/m3		60(24 hrs)

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.004-A
ULR No : TC704724100003190F
Report Control No : KER0000227493

Issue Date : 08/11/2024
JOE No : KE24-001945

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 : 21/10/2024 to 22/10/2024
Sampling Location : NEAR DIP MATERIAL GATE
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS	
				Min	Max
NABL Group : Atmospheric Pollution	Ambient air				
Benzene	SO-IN-EHS-TE-164	<2.00	ug/m3		05(Annual)
DISCIPLINE: CHEMICAL					
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.3	ug/m3		80
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	9.4	ug/m3		80
Particulate Matter (PM10)	IS 5182 (Part 23) : 2006	88.2	ug/m3		100
Lead (as Pb)	IS:5182 (Part-22):2004	0.02	ug/m3		1.0
Carbon Monoxide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH3)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3		400
Benzo (a) Pyrene	USEPA 8270 C TO - 13A	<0.20	ng/m³		01 (Annual)
Arsenic as As	SO-IN-MUL-TE-075	2.9	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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.004-A
ULR No : TC704724100003190F
Report Control No : KER0000227493

Issue Date : 08/11/2024
JOE No : KE24-001945

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

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****End of Report****

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.004-B

Issue Date : 08/11/2024

JOE No : KE24-001945

Report Control No : KER0000227493

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 : 21/10/2024 to 22/10/2024
Sampling Location : NEAR DIP MATERIAL GATE
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS	
				Min	Max
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL5)	ug/m3		100
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	31.6	ug/m3		60(24 hrs)

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

Per pro SGS India Private Ltd



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****End of Report****

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.005-A
ULR No : TC704724100003191F
Report Control No : KER0000227493

Issue Date : 08/11/2024
JOE No : KE24-001945

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 : 22/10/2024 to 23/10/2024
Sampling Location : NEAR MATERIAL GATE PI
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS	
				Min	Max
NABL Group : Atmospheric Pollution	Ambient air				
Benzene	SO-IN-EHS-TE-164	<2.00	ug/m3		05(Annual)
DISCIPLINE: CHEMICAL					
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.0	ug/m3		80
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	8.4	ug/m3		80
Particulate Matter (PM10)	IS 5182 (Part 23) : 2006	88.6	ug/m3		100
Lead (as Pb)	IS:5182 (Part-22):2004	0.03	ug/m3		1.0
Carbon Monoxide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH3)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3		400
Benzo (a) Pyrene	USEPA 8270 C TO - 13A	<0.20	ng/m³		01 (Annual)
Arsenic as As	SO-IN-MUL-TE-075	2.9	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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.005-A
ULR No : TC704724100003191F
Report Control No : KER0000227493

Issue Date : 08/11/2024
JOE No : KE24-001945

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.005-B

Issue Date : 08/11/2024

JOE No : KE24-001945

Report Control No : KER0000227493

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 : 22/10/2024 to 23/10/2024
Sampling Location : NEAR MATERIAL GATE PI
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS	
				Min	Max
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL5)	ug/m3		100
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	39.9	ug/m3		60(24 hrs)

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.006-A
ULR No : TC704724100003192F
Report Control No : KER0000227493

Issue Date : 08/11/2024
JOE No : KE24-001945

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 : 22/10/2024 to 23/10/2024
Sampling Location : NEAR 132 KVA SUB STATION
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS	
				Min	Max
NABL Group : Atmospheric Pollution	Ambient air				
Benzene	SO-IN-EHS-TE-164	<2.00	ug/m3		05(Annual)
DISCIPLINE: CHEMICAL					
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.1	ug/m3		80
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	8.2	ug/m3		80
Particulate Matter (PM10)	IS 5182 (Part 23) : 2006	98.7	ug/m3		100
Lead (as Pb)	IS:5182 (Part-22):2004	0.02	ug/m3		1.0
Carbon Monoxide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH3)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3		400
Benzo (a) Pyrene	USEPA 8270 C TO - 13A	<0.20	ng/m³		01 (Annual)
Arsenic as As	SO-IN-MUL-TE-075	<2.0	ng/m³		06(Annual)
Nickel as Ni	SO-IN-MUL-TE-075	<2.0	ng/m³		20(Annual)

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.006-A
ULR No : TC704724100003192F
Report Control No : KER0000227493

Issue Date : 08/11/2024
JOE No : KE24-001945

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.006-B

Issue Date : 08/11/2024

JOE No : KE24-001945

Report Control No : KER0000227493

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 : 22/10/2024 to 23/10/2024
Sampling Location : NEAR 132 KVA SUB STATION
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS	
				Min	Max
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL5)	ug/m3		100
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	47.4	ug/m3		60(24 hrs)

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.007-A
ULR No : TC704724100003193F
Report Control No : KER0000227493

Issue Date : 08/11/2024
JOE No : KE24-001945

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 : 28/10/2024 TO 29/10/2024
Sampling Location : NEAR GUEST HOUSE
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS	
				Min	Max
NABL Group : Atmospheric Pollution		Ambient air			
Benzene	SO-IN-EHS-TE-164	<2.00	ug/m3		05(Annual)
DISCIPLINE: CHEMICAL					
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.0	ug/m3		80
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	7.8	ug/m3		80
Particulate Matter (PM10)	IS 5182 (Part 23) : 2006	74.6	ug/m3		100
Lead (as Pb)	IS:5182 (Part-22):2004	0.02	ug/m3		1.0
Carbon Monoxide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH3)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3		400
Benzo (a) Pyrene	USEPA 8270 C TO - 13A	<0.20	ng/m³		01 (Annual)
Arsenic as As	SO-IN-MUL-TE-075	3.0	ng/m³		06(Annual)
Nickel as Ni	SO-IN-MUL-TE-075	<2.0	ng/m³		20(Annual)

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Report No : KE24-001945.007-A
ULR No : TC704724100003193F
Report Control No : KER0000227493

Issue Date : 08/11/2024
JOE No : KE24-001945

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Page 2 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001945.007-B

Issue Date : 08/11/2024

JOE No : KE24-001945

Report Control No : KER0000227493

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 : 28/10/2024 TO 29/10/2024
Sampling Location : NEAR GUEST HOUSE
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 08/11/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS	
				Min	Max
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL5)	ug/m3		100
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	48.5	ug/m3		60(24 hrs)

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

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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 METALIKS, KHARAGPUR	River Basin: Kasai_Haldi	CPCB Station Code: 1943
Sample Date: 23/10/2024	Sample Time: 16:00	
Human Activities: Drinking	Weather: Cloudy	Water Body: Ground Water at TATA Metaliks Kharagpur
Frequency Of Monitoring: Halfyearly	Use Based Class: A	Approximate Depth(Bottom/Table): 300.00 m
Color & Intensity: Clear	Odour: None	Visible effluent discharge: None

Water Quality		
Parameter	Test Result	Unit
Ammonia-N	BDL	mg/l
BOD	0.60	mg/l
Conductivity	627.1	µs/cm
Fecal Coliform	Nil	MPN/100ml
Nitrate-N	0.14	mg/l
pH	7.57	Unit
Temperature(Water)	27	°C
Total Coliform	Nil	MPN/100ml
Boron	BDL	mg/l
Calcium	49.20	mg/l
Chloride	24.82	mg/l
COD	4.00	mg/l
Fluoride	0.222	mg/l
Magnesium	27.90	mg/l
Phenolphthalein Alkanity	Nil	mg/l
Phosphate-P	0.10	mg/l
Potassium	4.6	mg/l
Sodium	28.2	mg/l
Sulphate	20.51	mg/l
Total Alkalinity	325.50	mg/l
Total Dissolved Solids(TDS)	322.00	mg/l
Total Fixed Solids(TFS)	292.00	mg/l
Total Hardness as CaCo3	237.80	mg/l
Total Suspended Solids(TSS)	6.00	mg/l
Turbidity	3.22	NTU



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001940.001
ULR No : TC704724100003139F
Report Control No : KER0000227436

Issue Date : 07/11/2024
JOE No : KE24-001940

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
Sampling Date : 29/10/2024
Sampling Location : CPP-3 RESERVOIR TREATED WATER
Sampling Method : APHA 1060B
Sample Qty. Recd. : 4L APPROX.
Sample Description : EFFLUENT

Lab Provided Information

Sample Type : EFFLUENT
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 07/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit	
				CPCB DIS. INLAND SURFACE WATER Min	Max
NABL Group : Pollution & Environment		Waste Water (Effluents/Sewage)			
DISCIPLINE: CHEMICAL					
Total Suspended Solids	APHA 23RD EDN 2540 D	8.22	mg/L		100
pH	APHA 23RD EDN 4500 B	7.24	--		5.5-9.0
Oil & Grease	APHA 23RD EDN 5520 B	<2.0	mg/L		10
BOD at 27 °C for 3 days	IS 3025 (Part 44) : 1993	3.6	mg/L		30
COD	APHA 24th EDN: 5220 B	30.6	mg/L		250
Total Dissolved Solids	APHA 23 RD EDN 2540 C	575.0	mg/L		

Remark : pH Analysed at site

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001940.001
ULR No : TC704724100003139F
Report Control No : KER0000227436

Issue Date : 07/11/2024
JOE No : KE24-001940

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001940.005
ULR No : TC704724100003143F
Report Control No : KER0000227436

Issue Date : 07/11/2024
JOE No : KE24-001940

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
Sampling Date : 29/10/2024
Sampling Location : ETP OUTLET(DI)
Sampling Method : APHA 1060B
Sample Qty. Recd. : 4L APPROX.
Sample Description : EFFLUENT

Lab Provided Information

Sample Type : EFFLUENT
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 07/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit	
				CPCB DIS. INLAND SURFACE WATER Min	Max
NABL Group : Pollution & Environment		Waste Water (Effluents/Sewage)			
DISCIPLINE: CHEMICAL					
Total Suspended Solids	APHA 23RD EDN 2540 D	<2.00	mg/L		100
pH	APHA 23RD EDN 4500 B	7.22	—		5.5-9.0
Oil & Grease	APHA 23RD EDN 5520 B	<2.0	mg/L		10
BOD at 27 °C for 3 days	IS 3025 (Part 44) : 1993	2.1	mg/L		30
COD	APHA 24th EDN: 5220 B	20.4	mg/L		250
Total Dissolved Solids	APHA 23 RD EDN 2540 C	2101.0	mg/L		

Remark : pH Analysed at site

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001940.005
ULR No : TC704724100003143F
Report Control No : KER0000227436

Issue Date : 07/11/2024
JOE No : KE24-001940

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001940.006
ULR No : TC704724100003144F
Report Control No : KER0000227436

Issue Date : 07/11/2024
JOE No : KE24-001940

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
Sampling Date : 29/10/2024
Sampling Location : ETP OUTLET 450 KLD TREATED
Sampling Method : APHA 1060B
Sample Qty. Recd. : 4L APPROX.
Sample Description : EFFLUENT

Lab Provided Information

Sample Type : EFFLUENT
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 07/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit	
				CPCB DIS. INLAND SURFACE WATER Min	Max
NABL Group : Pollution & Environment		Waste Water (Effluents/Sewage)			
DISCIPLINE: CHEMICAL					
Total Suspended Solids	APHA 23RD EDN 2540 D	<2.00	mg/L		100
pH	APHA 23RD EDN 4500 B	7.02	—		5.5-9.0
Oil & Grease	APHA 23RD EDN 5520 B	<2.0	mg/L		10
BOD at 27 °C for 3 days	IS 3025 (Part 44) : 1993	<2.0	mg/L		30
COD	APHA 24th EDN: 5220 B	10.2	mg/L		250
Total Dissolved Solids	APHA 23 RD EDN 2540 C	75.0	mg/L		

Remark : pH Analysed at site

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Report No : KE24-001940.006
ULR No : TC704724100003144F
Report Control No : KER0000227436

Issue Date : 07/11/2024
JOE No : KE24-001940

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Annexure-10

Rainwater Harvesting pond - Inside plant area



Outside Plant area





Test Report



TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001941.001
 ULR No : TC704724100003042F
 Report Control No : KER0000227356

Issue Date : 06/11/2024
 JOE No : KE24-001941

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 : 21/10/2024
 Sampling Location : NEAR DUCTURA HOUSE
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : AMBIENT NOISE

Lab Provided Information

Sample Type : AMBIENT NOISE
 Received : 30/10/2024
 Test Start/End Date : 30/10/2024 - 04/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
				Min	Max
NABL Group :	Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)			
DISCIPLINE:	CHEMICAL				
Noise (Day Time)	SO-IN-MUL-TE-049	68.50	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	44.70	dB(A) Leq		70

Remark : ANALYSED AT SITE.

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Test Report



TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001941.002
ULR No : TC704724100003043F
Report Control No : KER0000227356

Issue Date : 06/11/2024
JOE No : KE24-001941

Customer Provided Information

Sample Described by Customer as : AMBIENT NOISE
Customer Name : TATA STEEL LIMITED
Customer Address : METALIKS DIVISION KHARAGPUR
City : SAMRAIPUR, GOKULPUR
City : PASCHIM MEDINIPUR
Postal Code : 721301
Country : INDIA
Sampling Date : 21/10/2024
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 : 30/10/2024
Test Start/End Date : 30/10/2024 - 04/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
				Min	Max
NABL Group : Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)				
DISCIPLINE: CHEMICAL					
Noise (Day Time)	SO-IN-MUL-TE-049	67.60	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	55.20	dB(A) Leq		70

Remark : ANALYSED AT SITE.

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Test Report



TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001941.003
ULR No : TC704724100003044F
Report Control No : KER0000227356

Issue Date : 06/11/2024
JOE No : KE24-001941

Customer Provided Information

Sample Described by Customer as : AMBIENT NOISE
Customer Name : TATA STEEL LIMITED
Customer Address : METALIKS DIVISION KHARAGPUR
City : SAMRAIPUR, GOKULPUR
City : PASCHIM MEDINIPUR
Postal Code : 721301
Country : INDIA
Sampling Date : 23/10/2024
Sampling Location : NEAR MATERIAL GATE - P1
Sampling Method : SO-IN-MUL-TE-176
Sample Description : AMBIENT NOISE

Lab Provided Information

Sample Type : AMBIENT NOISE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 04/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
				Min	Max
NABL Group : Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)				
DISCIPLINE: CHEMICAL					
Noise (Day Time)	SO-IN-MUL-TE-049	75.60	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	45.20	dB(A) Leq		70

Remark : ANALYSED AT SITE.

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Test Report



TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001941.004
ULR No : TC704724100003045F
Report Control No : KER0000227356

Issue Date : 06/11/2024
JOE No : KE24-001941

Customer Provided Information

Sample Described by Customer as : AMBIENT NOISE
Customer Name : TATA STEEL LIMITED
Customer Address : METALIKS DIVISION KHARAGPUR
City : SAMRAIPUR, GOKULPUR
City : PASCHIM MEDINIPUR
Postal Code : 721301
Country : INDIA
Sampling Date : 23/10/2024
Sampling Location : NEAR 132 KVA SUB STATION
Sampling Method : SO-IN-MUL-TE-176
Sample Description : AMBIENT NOISE

Lab Provided Information

Sample Type : AMBIENT NOISE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 04/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
				Min	Max
NABL Group : Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)				
DISCIPLINE: CHEMICAL					
Noise (Day Time)	SO-IN-MUL-TE-049	68.30	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	40.20	dB(A) Leq		70

Remark : ANALYSED AT SITE.

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Test Report



TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001941.005
ULR No : TC704724100003046F
Report Control No : KER0000227356

Issue Date : 06/11/2024
JOE No : KE24-001941

Customer Provided Information

Sample Described by Customer as : AMBIENT NOISE
Customer Name : TATA STEEL LIMITED
Customer Address : METALIKS DIVISION KHARAGPUR
City : SAMRAIPUR, GOKULPUR
City : PASCHIM MEDINIPUR
Postal Code : 721301
Country : INDIA
Sampling Date : 28/10/2024
Sampling Location : NEAR GUEST HOUSE
Sampling Method : SO-IN-MUL-TE-176
Sample Description : AMBIENT NOISE

Lab Provided Information

Sample Type : AMBIENT NOISE
Received : 30/10/2024
Test Start/End Date : 30/10/2024 - 04/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
				Min	Max
NABL Group : Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)				
DISCIPLINE: CHEMICAL					
Noise (Day Time)	SO-IN-MUL-TE-049	60.20	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	41.00	dB(A) Leq		70

Remark : ANALYSED AT SITE.

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Test Report



TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001952.001
ULR No : TC704724100003040F
Report Control No : KER0000227348

Issue Date : 06/11/2024
JOE No : KE24-001952

Customer Provided Information

Sample Described by Customer as : AMBIENT NOISE
Customer Name : TATA STEEL LIMITED
Customer Address : METALIKS DIVISION KHARAGPUR
City : SAMRAIPUR, GOKULPUR
City : PASCHIM MEDINIPUR
Postal Code : 721301
Country : INDIA
Sample Description : AMBIENT NOISE
Sampling Date : 20/10/2024
Sampling Location : GOKULPUR VILLAGE
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : NOISE MONITORING
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 04/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit CPCB RESIDENTIAL AREA	
				Min	Max
NABL Group : Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)				
DISCIPLINE: CHEMICAL					
Noise (Day Time)	SO-IN-MUL-TE-049	51.7	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	41.6	dB(A) Leq		70

Remark : ANALYSED AT SITE

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Test Report



TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001952.002
ULR No : TC704724100003041F
Report Control No : KER0000227348

Issue Date : 06/11/2024
JOE No : KE24-001952

Customer Provided Information

Sample Described by Customer as : AMBIENT NOISE
Customer Name : TATA STEEL LIMITED
Customer Address : METALIKS DIVISION KHARAGPUR
City : SAMRAIPUR, GOKULPUR
City : PASCHIM MEDINIPUR
Postal Code : 721301
Country : INDIA
Sample Description : AMBIENT NOISE
Sampling Date : 20/10/2024
Sampling Location : MAHESHPUR VILLAGE
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : NOISE MONITORING
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 04/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit CPCB RESIDENTIAL AREA	
				Min	Max
NABL Group : Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)				
DISCIPLINE: CHEMICAL					
Noise (Day Time)	SO-IN-MUL-TE-049	48.5	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	35.6	dB(A) Leq		70

Remark : ANALYSED AT SITE

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001953.001
ULR No : TC704724100003052F
Report Control No : KER0000227334

Issue Date : 06/11/2024
JOE No : KE24-001953

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 : 22/10/2024
Sampling Location : NEAR SCRAP YARD
Sampling Method : SO-IN-MUL-TE-176
Marks on Sample : WORKZONE NOISE

Lab Provided Information

Sample Type : SOURCE NOISE
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 04/11/2024

NABL Accredited Tests

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

Remark : ANALYSED AT SITE
LIMIT MENTION 8 HRS BASIS

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001953.002
ULR No : TC704724100003053F
Report Control No : KER0000227334

Issue Date : 06/11/2024
JOE No : KE24-001953

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 : 22/10/2024
Sampling Location : NEAR MBF-1 BLOWER HOUSE
Sampling Method : SO-IN-MUL-TE-176
Marks on Sample : WORKZONE NOISE

Lab Provided Information

Sample Type : SOURCE NOISE
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 04/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
NABL Group : Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
DISCIPLINE: CHEMICAL					
Noise	SO-IN-MUL-TE-049	82.7	dB(A) Leq		90

Remark : ANALYSED AT SITE
LIMIT MENTION 8 HRS BASIS

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001953.003
ULR No : TC704724100003054F
Report Control No : KER0000227334

Issue Date : 06/11/2024
JOE No : KE24-001953

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 : 22/10/2024
Sampling Location : NEAR CAST HOUSE 1
Sampling Method : SO-IN-MUL-TE-176
Marks on Sample : WORKZONE NOISE

Lab Provided Information

Sample Type : SOURCE NOISE
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 04/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
NABL Group : DISCIPLINE:	Atmospheric Pollution CHEMICAL	Source Noise Levels (Excluding vibration) DG Noise level			
Noise	SO-IN-MUL-TE-049	80.5	dB(A) Leq	90	

Remark : ANALYSED AT SITE
LIMIT MENTION 8 HRS BASIS

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001953.004
ULR No : TC704724100003055F
Report Control No : KER0000227334

Issue Date : 06/11/2024
JOE No : KE24-001953

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 : 22/10/2024
Sampling Location : NEAR SPCM AREA
Sampling Method : SO-IN-MUL-TE-176
Marks on Sample : WORKZONE NOISE

Lab Provided Information

Sample Type : SOURCE NOISE
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 04/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
NABL Group : Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
DISCIPLINE: CHEMICAL					
Noise	SO-IN-MUL-TE-049	80.6	dB(A) Leq		90

Remark : ANALYSED AT SITE
LIMIT MENTION 8 HRS BASIS

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001953.005
ULR No : TC704724100003056F
Report Control No : KER0000227334

Issue Date : 06/11/2024
JOE No : KE24-001953

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 : 22/10/2024
Sampling Location : NEAR CAST HOUSE 2
Sampling Method : SO-IN-MUL-TE-176
Marks on Sample : WORKZONE NOISE

Lab Provided Information

Sample Type : SOURCE NOISE
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 04/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
NABL Group : Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
DISCIPLINE: CHEMICAL					
Noise	SO-IN-MUL-TE-049	79.9	dB(A) Leq		90

Remark : ANALYSED AT SITE
LIMIT MENTION 8 HRS BASIS

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001953.006
ULR No : TC704724100003057F
Report Control No : KER0000227334

Issue Date : 06/11/2024
JOE No : KE24-001953

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 : 22/10/2024
Sampling Location : NEAR MBF 2 BLOWER HOUSE
Sampling Method : SO-IN-MUL-TE-176
Marks on Sample : WORKZONE NOISE

Lab Provided Information

Sample Type : SOURCE NOISE
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 04/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
NABL Group : Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
DISCIPLINE: CHEMICAL					
Noise	SO-IN-MUL-TE-049	82.9	dB(A) Leq		90

Remark : ANALYSED AT SITE
LIMIT MENTION 8 HRS BASIS

Per pro SGS India Private Ltd


SATYA CHARAN MANNA

Authorized Signatory

****End of Report****



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001953.007
ULR No : TC704724100003058F
Report Control No : KER0000227334

Issue Date : 06/11/2024
JOE No : KE24-001953

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 : 23/10/2024
Sampling Location : NEAR RMHS 1
Sampling Method : SO-IN-MUL-TE-176
Marks on Sample : WORKZONE NOISE

Lab Provided Information

Sample Type : SOURCE NOISE
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 04/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
NABL Group : Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
DISCIPLINE: CHEMICAL					
Noise	SO-IN-MUL-TE-049	83.1	dB(A) Leq		90

Remark : ANALYSED AT SITE
LIMIT MENTION 8 HRS BASIS

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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.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001953.008
ULR No : TC704724100003059F
Report Control No : KER0000227334

Issue Date : 06/11/2024
JOE No : KE24-001953

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 : 23/10/2024
Sampling Location : NEAR RMHS 2
Sampling Method : SO-IN-MUL-TE-176
Marks on Sample : WORKZONE NOISE

Lab Provided Information

Sample Type : SOURCE NOISE
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 04/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
NABL Group : Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
DISCIPLINE: CHEMICAL					
Noise	SO-IN-MUL-TE-049	83.2	dB(A) Leq		90

Remark : ANALYSED AT SITE
LIMIT MENTION 8 HRS BASIS

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001953.009
ULR No : TC704724100003060F
Report Control No : KER0000227334

Issue Date : 06/11/2024
JOE No : KE24-001953

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 : 23/10/2024
Sampling Location : NEAR CPP 3 TURBINE HALL
Sampling Method : SO-IN-MUL-TE-176
Marks on Sample : WORKZONE NOISE

Lab Provided Information

Sample Type : SOURCE NOISE
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 04/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
NABL Group : Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
DISCIPLINE: CHEMICAL					
Noise	SO-IN-MUL-TE-049	75.9	dB(A) Leq		90

Remark : ANALYSED AT SITE
LIMIT MENTION 8 HRS BASIS

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001953.010
ULR No : TC704724100003061F
Report Control No : KER0000227334

Issue Date : 06/11/2024
JOE No : KE24-001953

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 : 23/10/2024
Sampling Location : NEAR CPP-2 TURBINE HALL
Sampling Method : SO-IN-MUL-TE-176
Marks on Sample : WORKZONE NOISE

Lab Provided Information

Sample Type : SOURCE NOISE
Received : 01/11/2024
Test Start/End Date : 01/11/2024 - 04/11/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit THE FACTORIES ACT,1948	
				Min	Max
NABL Group : Atmospheric Pollution	Source Noise Levels (Excluding vibration) DG Noise level				
DISCIPLINE: CHEMICAL					
Noise	SO-IN-MUL-TE-049	75.6	dB(A) Leq		90

Remark : ANALYSED AT SITE
LIMIT MENTION 8 HRS BASIS

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Carbon Footprint Reduction initiatives for FY'25

Detailed Energy Audit was carried out through Bureau of Energy Efficiency (BEE) for the Pig Iron 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 MBF1 and DIP-1 (Power saving 120 KW)
- PCI specific power consumption reduction by running only 1 Air Compressor
- 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.
- Reduce the Loading pressure setting from 4.5 kg/cm² to 4 kg/cm² and unloading pressure setting is 5.6 kg/cm² (bar) to 5 kg/cm² in RMHS.

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.
- Use of Carbon black generated from waste tyres through pyrolysis process for partial replacement of PCI in MBF.
- Use of Bio Fuel based syn gas plant to replace BFG and increase captive power generation at CPP 4.
- Installation of solar power plant of 1.8MWp at LDP roof top.

Solid Fuel Saving initiatives

- Nut Coke consumption with lime & ESP dust coating to improve RI (Reducibility index) for fuel rate reduction.
- Increase PCI Rate in MBF by modification of Coal Injection setpoint matrix.
- 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.

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
(FY: 2024-2025)

Time Period	IME of Employees & CL	Periodical Occupational Health Check-Up of Employees & CL	Remarks
Apr'24 to Sep'24	2155 (Emp=1) (CL= 2154)	NIL	Total=2155 (IME= 2155) (POHC= Nil)
Oct'24 to Mar'25	1255 (Emp=Nil) (CL=1255)	5184 (Emp=1777) (CL=3407)	Total-6439 (IME=1255) (POHC=5184)

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

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

Major Achievements – FY'25

Total Spend: Rs. 6.64 Crores

Total Number of beneficiaries: 52,547

1. 28,000 children aged 3-16 years have been benefitted under Education Signature Project through Foundational Literacy & Numeracy and Bridge course classes. 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.
2. 51 school & college students have received scholarship support
3. 20 drop-out girls from Sambhavna Learning Centre passed their matric exam from Rabindra Mukta Vidyalaya through coaching support.
4. 335 women from the Adult Literacy Project successfully completed the functional literacy course.
5. 725 youth provided short term skill training with 79% placement and average salary of Rs. 9,700 per month
6. 7 students supported for Diploma Engineering course TSTI (Jamshedpur). They received placement with annual CTC ranging from 2.50 lakhs to 5.00 Lakhs.
7. Over 1,000 villagers benefitted by Mobile Public Health Camps through identification of their health issues mainly Hypertension, Diabetes and Anemia and provided with medicinal support.
8. More than 400 farmers provided training and agriculture input support. The intervention has helped in enhancing their annual income in the range of Rs. 30,000 to 50,000 per annum.
9. 50 women have been provided training to develop bamboo and sabai grass based micro enterprises.
10. 0.22 MCFT water storage potential capacity has been created by excavation of 2 ponds
11. 178 (100%) ASHA workers in Kharagpur 1 block trained on identifying different types of Disabilities.
12. Football training provided to 80 children.

Stories across locations...KGP (Education)



Child Labour Free Zone declared in all villages of 4 panchayats of KGP 1 Block under 300 School Project



Teachers Workshop under Green School Project conducted for TSF Kharagpur and Bishnupur units



On 26th of Aug. 2024, a Residential Bridge Center for girls was started in Kholar village of Kholar Panchayat of Kharagpur under Education Signature Program "TSL 1000 Schools Project". Currently 51 girls are enrolled in the center



Felicitation of adolescent girls from Sambhavl Learning Centre, under Project DIYA by DM and BDO of Paschim Medinipur District. These girls have successfully prevented their own marriage.



TATA STEEL FOUNDATION

Stories across locations...KGP (Livelihoods)



40 new Women Farmers have been trained on Mushroom Cultivation under Enterprise Development Program. Setting up of low cost mushroom shed is in progress.



Graduation ceremony of trainees of Multi Skill Center, Midnapore



Training on vegetable and rice cultivation is being provided by the Government National Mission on Edible Oils (OS) scheme.



Under Pond Based Livelihood Project supported by NABARD

TATA STEEL FOUNDATION

Stories across locations...KGP (Volunteering)



Visit to Missionaries of Charity Mother's Home



Holi celebration with inmates of Missionaries of-Charity Brother's Home



Vegetable Trellis making activity



TATA STEEL FOUNDATION



Stories across locations – KGP (Health)



Health camps conducted for community through Mobile Health Camps in collaboration with Arogya Vahini Trust



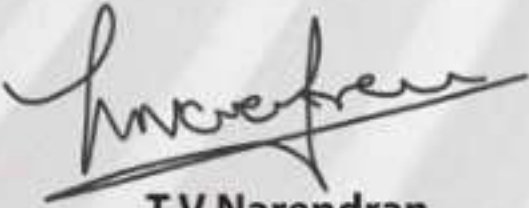
Health camps conducted for truck drivers in collaboration with Department of Health and Family Welfare

ENVIRONMENTAL POLICY

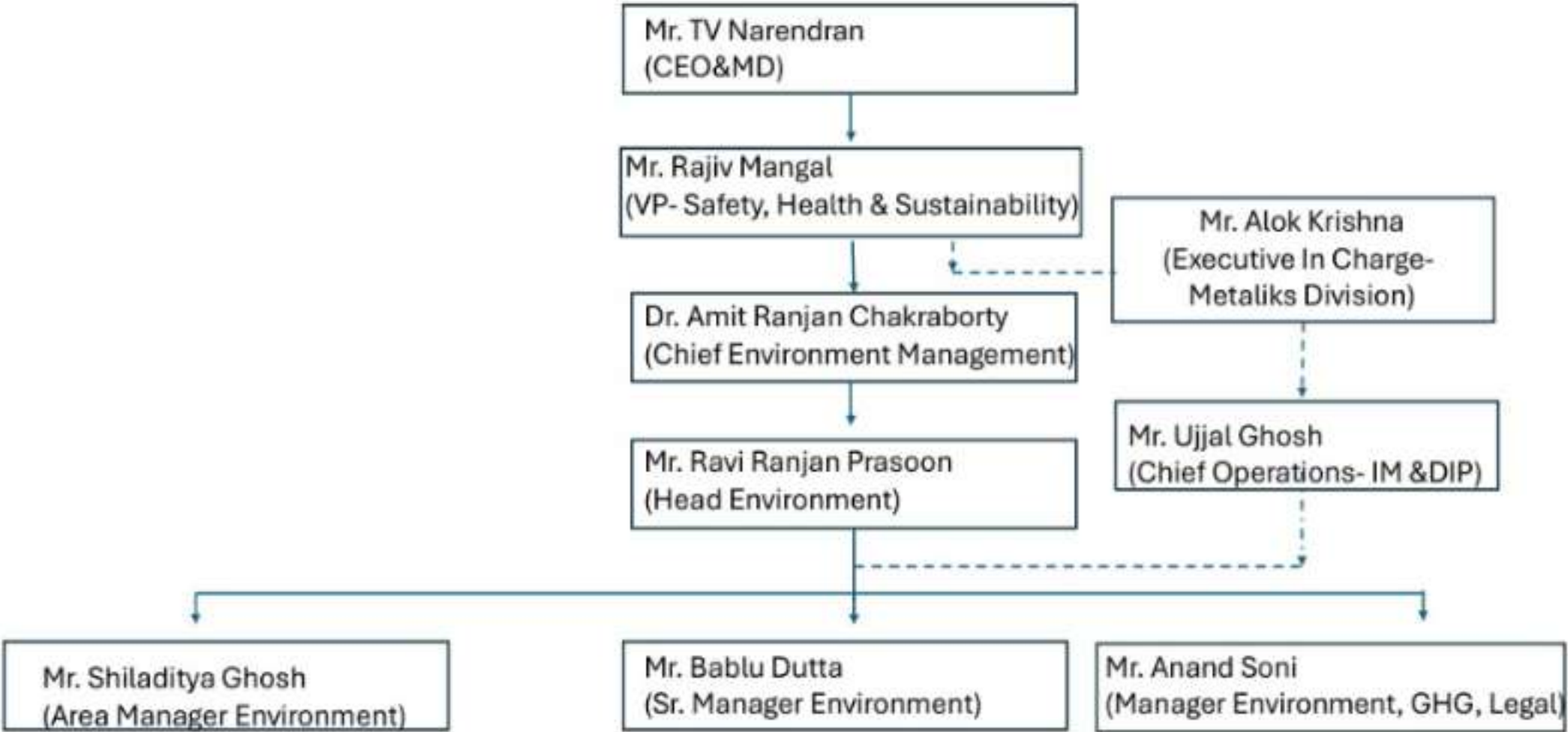
Tata Steel's environmental responsibilities are driven by our commitment to preserve the environment and are integral to the way we do business.

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

Date : November 1, 2017


T V Narendran
CEO & Managing Director

Environment Organization Structure



Environment protection measures in FY'25

S.N.	Description of environment protection measure executed/ in advanced stage of completion in FY'25	Investment Amount (₹ in lakh) (order placed/ expenditure made)
1.	Installing 25 TPH coke drying unit at RMHS#2 bunkers	900.0
2.	Installation of Syn gas plant for use in Sinter making process in place of Blast Furnace Gas	350.0
3.	Hiring of truck mounted fog canon system for water sprinkling to control fugitive dust for Raw material Stock, inside and out side plant road.	16.06
4.	CMC of CAAQMS	31.8
5.	CMC & Calibration of CEMS	80.0
6.	Installation of grid connected battery less 1.8 MW solar power system at DIP-2 unit	700.0
7.	Installation of Sonic Soot Blowing technology for increasing the collecting efficiency in Head ESP at Sinter Plant	4.4
8.	Enhancing Bag Filter Performance of RFP by Installation of Sonic Soot Blowing Technology	1.9
9.	Tail ESP upgradation by HFTR installation for performance enhancement and emission control	78.0
10.	Construction of ZED (Zero Effluent discharge) network	200.0
11.	Installation of Tri-grinding FL-2 de-dusting system	44.0
12.	Environmental monitoring through accredited agency	10.8
13.	Electrical Energy Conservation initiatives through power generation through microturbine with PRDS unit in CPP-2	180.0
14.	Install sinter cooler WHRB (9TPH) 10.5 Kg/cm ² to generate & supply steam for DIP -2 curing therefore save BFG & generate 1.6 MW power- Under construction	700.0
15.	Green belt augmentation (5516 nos. of saplings) inside plant & for plantation at nearby community (1888 nos. of saplings) for FY'25	11.0
16.	Wind shelter fencing is constructed near Iron ore yard & horizontal deployment	5.0
17.	Installation of Fanless & finless cooling tower (under construction)	150.0
18.	Installation of 4 Nos. dust monitor (CEMS) for Iron Making division Stack.	22.2
19.	RO plant (Cap-30m ³ /Hr) installation is under progress for Ductile Iron Pipe unit	38.0
20.	IoT Based Smart Ultrasonic Water Flow Meters Installation	26.0
21.	Installation of micro turbine with pressure reducing system	210.0
22.	Upgradation of Induced Draft (ID) fan at tail side of Electrostatic Precipitator (ESP) in Sinter Plant	74.0
23.	Hiring of Road Sweeping Machine (DULEVO- 5000) for reduction of fugitive dust on inside plant road.	78.0

ENVIRONMENTAL AUDIT

TATA METALIKS LIMITED, KHARAGPUR



TATA METALIKS LIMITED

Project No. PI/TMLK123-18

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.]

Fl-4B, 323A Motilal Gupta Road, Barisha, Kolkata-700008, India

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<http://www.prayuktigroup.com>

In association with:

ULTRA TECH (Environmental Consultancy & Laboratory)

[Lab Approved and Gazetted by MoEF]

Unit no. 224, 225, 206, Jai Commercial Complex

463 Eastern Express Highway

Khopat, Thane(W) – 400601, India.

Tel: +91-22-25342776

Email: sales@ultratech.in web: <https://www.ultratech.in>

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

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PRAYUKTI GROUP

PRAYUKTI INTERNATIONAL PVT. LTD.

CIN No. U74900WB2016PTC209098

Ref: PVTMLK123-18

Date: 18-10-2023

To

Sri Bablu Dutta
Manager-Environment
Tata Metaliks Limited
VII – Maheshpur, P.O. Samraipur,
PS – Kharagpur (Local),
Dist- Paschim Medinipur,
West Bengal, Pin Code - 721301
Mobile: +91 7595888484
Email: bablu.dutta@tata-metaliks.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 (PVTMLK123-18) 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 – Govt).

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

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

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

With best regards,

Nirmalya Ganguly



NIRMALYA GANGULY
Principal Consultant
+919891079788
nirmalya@prayuktigroup.com

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Representative Offices in : Bangladesh, UAE, Qatar, Canada

Environmental Consultancy & Laboratory (Gazetted by MoEF - Govt. of India)

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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
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THE TELEGRAPH CALCUTTA FRIDAY 1 FEBRUARY 2019
TODAY'S HEADLINE NEWS
TODAY'S HEADLINE NEWS

TATA
TATA METALIKS LTD.
CIN: L27100WB1999PLC000000
P.O.: Samaspur, Khargpur, Dist - Paschim Medinipur, West Bengal - 721001, India

PUBLIC NOTICE

It is hereby informed to all concerned that Tata Metaliks Limited located at PO, Samaspur, Block - Khargpur-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-(A-III) 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.envfo.nic.in/>)

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

LARGEST DIALYSIS UNIT IN KOLKATA

- HDF (Haemodiafiltration)
- SLED (Slow Low Efficiency Dialysis)
- CRRT (Continuous Renal Replacement Therapy)
- Plasmapheresis
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Online Kt/V Estimation

মেদিনীপুর-বাড়গ্রাম

সাজছে সৈকত, রাত পোহালেই উৎসব
বিভিন্ন সংস্করণে

একটি নতুন ধরনের সৈকত, রাত পোহালেই উৎসব। এটি একটি নতুন ধরনের সৈকত, রাত পোহালেই উৎসব। এটি একটি নতুন ধরনের সৈকত, রাত পোহালেই উৎসব।

TATA
ইলেকট্রিক্যাল সার্ভিসেস
একটি নতুন ধরনের সৈকত, রাত পোহালেই উৎসব। এটি একটি নতুন ধরনের সৈকত, রাত পোহালেই উৎসব। এটি একটি নতুন ধরনের সৈকত, রাত পোহালেই উৎসব।

সিনেমাটা জীবন না হলেও, বিশ্বজিৎ বাবুর জীবনের অনেকটাই কিছু সিনেমার মত!

বিশ্বজিৎ বাবুর জীবন না হলেও, বিশ্বজিৎ বাবুর জীবনের অনেকটাই কিছু সিনেমার মত! বিশ্বজিৎ বাবুর জীবন না হলেও, বিশ্বজিৎ বাবুর জীবনের অনেকটাই কিছু সিনেমার মত!

The screenshot shows a web browser window with the URL <https://www.tatasteel.com/corporate/our-organisation/environment/environment-compliance-reports/>. The page features a dark header with the Tata Steel logo and a navigation menu. Below the header, a breadcrumb trail reads: Corporate > Our Organisation > Environment > Environment Compliance Reports. A search bar on the right contains the text "Environment Clearance compliance of Tata Steel Metaliks Division , Tata Steel Limited for the period April 2024 to September 2024". Below the search bar, it says "Found 8 results." Two search results are visible:

- Environment Clearance compliance of Tata Steel Metaliks Division , Tata Steel Limited for the period April 2024 to September 2024**
Kharagpur 11 December 2024
- Environment Statement (Form-V) of Tata Steel Metaliks Division, Kharagapur for FY'2024**
Kharagpur October 29, 2024

At the bottom of the page, there is a cookie consent banner that reads: "This website uses cookies. By continuing to browse this website you are agreeing to our use of cookies. Find out more by reading our [Privacy Policy](#) & [Cookie Policy](#)." The Windows taskbar at the bottom shows the search bar and several application icons.

Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	IA/WB/IND/21443/2024
Compliance ID	72536192
Compliance Number(For Tracking)	EC/M/COMPLIANCE/72536192/2024
Reporting Year	2024
Reporting Period	01 Dec(01 Apr - 30 Sep)
Submission Date	28-11-2024
RO/SRO Name	ARTATRANA MISHRA
RO/SRO Email	jhk109@ifs.nic.in
State	WEST BENGAL
RO/SRO Office Address	Integrated Regional Offices, Kolkata
Note:- SMS and E-Mail has been sent to ARTATRANA MISHRA, WEST BENGAL with Notification to Project Proponent.	