

Ref No. TSLMD/ENV/24-11/44

Date: 26/11/2024

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 (April'24 to September'24) 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.

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 Ltd. website for your kind perusal.

Thanking you

Yours sincerely, For Tata Steel Limited, Metaliks Division

Sakti Sankar Bandopadhyay

Chief (PI-Operation & Maintenance)

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, Regional Office, Haldia, West Bengal CPCB, Zonal Office Kolkata

I. Statutory compliance

S.N.	Conditions	Compliance status
i.	The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the State Pollution Control Board.	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.	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.	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.	All the process stacks are provided with 24 x 7 continuous emission monitoring system. Connectivity with SPCB & CPCB is being done 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.	Fugitive emissions in the plant premises have been carried out quarterly through NABL accredited laboratories. Fugitive emission monitoring report is enclosed herewith as Annexure - I.

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.	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.
iv.	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring along with results of manual stack monitoring and manual monitoring of air quality/ fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with sixmonthly monitoring report.	Monthly summary report of continuous stack emission (CEMS) & CAAQMS is enclosed herewith as Annexure - II (a & b) . Manual monitoring report of both stack & ambient air quality is enclosed herewith as Annexure - III (a & b) .
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.	Fume Extraction System, ESPs & bag filters 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.	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
viii.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Three mobile road sweeping machines (two small sized and one large sized) have been deployed for cleaning of plant roads.
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.	The iron ore 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.	Raw material transportation through trucks & railway (rake) are done which are covered with tarpaulin. Within plant covered conveying system is installed to avoid spillage.
xi.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	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.

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.	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.
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.	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.
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	Analysis reports of recycled effluent & ground water are enclosed herewith as Annexure- IV (a & b).

	MoEF&CC, Zonal office of CPCB and Regional Office of SPCB alongwith six- monthly monitoring report.	
iv.	Adhere to 'Zero Liquid Discharge'.	Zero Effluent Discharge is being maintained. All the wastewater is being treated & utilized through ETP as process make up, dust suppression & washing purpose
V.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	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.	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.	A pond has been made available to store rain water. Capacity enhancement of this pond is in progress. Another new pond is made. Although ground water table recharging is not allowed by WBPCB, still rainwater harvesting system for usage in toilets & dust suppression has been installed. A study for construction of additional roof top rainwater harvesting structures has been carried out. Potentials have been measured & action plan made for implementation. Water sustainability projects at nearby village area under the ambit of CSR. Under this, rainwater harvesting (storage & recharge) structures have been constructed.
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.	Water from MBFs, 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.

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	Work zone & ambient noise level is monitored on quarterly basis. Same is enclosed as Annexure - V.
	compliance report.	

ii.	The ambient noise levels should	The Ambient noise level in and around the
	conform to the standards prescribed	plant area is well within the standards. Noise
	under E(P) A Rules, 1986 viz. 75 dB(A)	monitoring result at different locations
	during day time and 70 dB(A) during	enclosed as Annexure -V .
	night time.	

V. Energy Conservation measures:

S.N.	Conditions	Compliance status
i.	The project proponent shall provide	Not applicable because Tata Steel Metaliks
	waste heat recovery system on the DRI	Division is not having DRI Kilns operation.
	Kilns.	
ii.	The dolochar generated shall be used for	Not Applicable because Tata Steel Metaliks
	power generation.	Division is not having DRI Kilns & Dolochar.
iii.	Provide solar power generation on roof	1 MWp roof top solar power plant at DIP-1,
	tops of buildings, for solar light system	1.8 MWp roof top solar power plant at DIP-2
	for all common areas, streetlights,	unit and two other solar power systems of 10
	parking around project area and	KWp & 17.8 KWp capacity have been installed
	maintain the same regularly.	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 canteen roof top. All the solar
		systems are being maintained on regular basis.
iv.	Provide LED lights in their offices and	LED lights have been provided in most of the
	residential areas.	offices & plant site and will be installed in all
		newly build offices in future.

VI. Waste Management:

S.N.	Conditions	Compliance status
i.	Used refractories shall be recycled as far	Used refractories are used for paving
	as possible.	purpose at MBF area.
ii.	100% utilization of fly ash shall be	Not applicable because of no Fly Ash
	ensured. All the fly ash shall be provided	generation in the plant.
	to cement and brick manufacturers for	
	further utilization and Memorandum of	
	Understanding in this regard shall be	
	submitted to the Ministry's Regional	
	Office.	
iii.	The waste oil, grease and other hazardous	Used oil & other hazardous waste is stored
	waste shall be disposed of as per	and disposed of through authorized agency
	Hazardous & Other waste (Management	as per regulatory requirement i.e. Hazardous
	& Transboundary Movement) Rules,	& Other waste (Management &
	2016.	Transboundary Movement) Rules, 2016.
iv.	Kitchen waste shall be composted or	Bio gas plant of 150 Kg/d capacity is in
	converted to biogas for further use.	operation by 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.	Green belt in an area equal to 33% is being developed inside the plant premises. We have planted 4080 nos. saplings inside the plant & 1846 nos. of saplings at nearby community from Apr24 to Sep24. Every year plantation is done in available space. The different species planted are Polylthea
		longifolia, Casul.lina aquisetifolia, Alstonia scholaris Teccoma stans, Azdirachta indica, Dalbergia sisoo, Mimosops elengi, Cassia fistula, 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.	GHG emission inventory has been prepared & verified by accredited agency. Inventorisation is being carried out on monthly basis and annualized figures are computed. Program for carbon footprint reduction is also in place. Annexure – VI (a)

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.	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.	Work zone heat stress monitoring is being carried out on regular basis. Required PPEs are being provided for the workmen deployed in hot zone area. Man-cooler, fog canon and mist 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.	Labour housing with associated amenities was not required to be constructed within plant, as the workforce had been deployed from nearby locality. However, for the workmen during project activity - canteen, drinking water & medical facility has been made available during their work.
iv.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Regular health surveillance of all the workers is being conducted. Record of preemployment health checkup is enclosed as Annexure -VI (b).

IX. Corporate Environment Responsibility:

S.N.	Conditions	Compliance status				
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017- IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.	Compliance w.r.t Corporate Environment Responsibility is enclosed as Annexure – VII .				
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.	Tata Steel's Central Environmental Policy is followed by Metaliks division. Copy is enclosed as Annexure-VIII				
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.	A separate Environment Management Cell has already been set up for with a permanent qualified employee 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.				
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.	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 - IX . 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.	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.
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 displayed in the project proponent's website permanently.	Had been complied.
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.	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.	Compliance condition status of Environment clearance has been uploaded along with monitoring data on company website on half yearly basis.
iv.	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , 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 as a part of six- monthly compliance report.

v.	The project proponent shall submit sixmonthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest & Climate Change at environment clearance portal.	Six-monthly reports on the status of the compliance of the stipulated environmental conditions have been uploaded on the website of MoEFCC portal.
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.	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.
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.	Has been complied.
viii.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Agreed for the same
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.	Is being complied. The same is also a part of the Corporate Environment Responsibility enclosed as Annexure - VII .
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).	Noted for compliance.
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.	Noted for compliance.
xii.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted for compliance.

xiii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	Noted for compliance.
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.	Noted for compliance.
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.	Noted for compliance.
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.	Noted for compliance.







TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001356.001
 Issue Date
 : 31/07/2024

 ULR No
 : TC704724100002147F
 JOE No
 : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 16/07/2024

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

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 Su Matter (RSPM)	spended Particulate	IS:5182 (Part-23):2006	200.54	ug/m3		5000
Sulphur Dioxi	•	IS 5182 (Part 02): 2006	42.5	ug/m3		5000
Nitrogen Diox	ide (NO2)	IS 5182 (Part 06) : 2006	58.1	ug/m3		6000

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

Member of the SGS Group (SGS SA)

Page 1 of 1

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.001-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 16/07/2024

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result		Requirement/Limit FACTORY ACT 194		
			1	Min Max		
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	370.97	ug/m3	10000		

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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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 7 days (in case of perishable items) and 30 days for all other samples from the date of issue of report. The samples from regulatory bodies are to be retained as specified. This document cannot be reproduced except in full. without prior written approval of the Company.

No decision rule is applied, when comparing the measurement result(s) with the applicable limit(s) according to the specification in the respective standard or as shared by the

No decision rule is applied, when comparing the measurement result(s) with the applicable limit(s) according to the specification in the respective standard or as shared by the customer.

For any feedback or complaint please write to us at https://sgssurveys.qualtrics.com/jfe/form/SV_eP7WY1kg3NyF4vI







TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.002 Issue Date : 31/07/2024

ULR No : TC704724100002148F JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 16/07/2024

Sampling Location . BETWEEN SPCM 1 & 2 AREA

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Respirable Su	spended Particulate	IS:5182 (Part-23):2006	429.01	ug/m3		5000
Matter (RSPM) Sulphur Dioxid		IS 5182 (Part 02): 2006	45.6	ug/m3		5000
Nitrogen Dioxi	ide (NO2)	IS 5182 (Part 06) : 2006	73.6	ug/m3		6000

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****End of Report****

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.002-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 16/07/2024

Sampling Location . BETWEEN SPCM 1 & 2 AREA

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	•	irement/Limit FORY ACT 1948	
				Min	Max	
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	2118.22	ug/m3		10000	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704724100002149F JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 16/07/2024

Sampling Location : NEAR NEW OXYGEN PLANT(ELLENBARRIE)

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Respirable Su Matter (RSPM)	spended Particulate	IS:5182 (Part-23):2006	127.11	ug/m3		5000
Sulphur Dioxi		IS 5182 (Part 02): 2006	38.0	ug/m3		5000
Nitrogen Diox	ide (NO2)	IS 5182 (Part 06) : 2006	37.0	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.003-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 16/07/2024

Sampling Location . NEAR NEW OXYGEN PLANT(ELLENBARRIE)

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	•	irement/Limit FORY ACT 1948	
				Min	Max	
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	874.99	ug/m3		10000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704724100002150F JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 17/07/2024

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

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

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	28.5	ug/m3		5000
Nitrogen Dioxide (NO2)		IS 5182 (Part 06) : 2006	79.2	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.004-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 17/07/2024

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

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	1249.93	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	6009.28	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001356.008
 Issue Date
 : 31/07/2024

 ULR No
 : TC704724100002154F
 JOE No
 : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 17/07/2024

Sampling Location . F5 & 4 DISCHARGE POINT (RMHS-1)

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Respirable Su Matter (RSPM)	spended Particulate	IS:5182 (Part-23):2006	595.76	ug/m3		5000
Sulphur Dioxid	•	IS 5182 (Part 02): 2006	34.3	ug/m3		5000
Nitrogen Dioxi	ide (NO2)	IS 5182 (Part 06) : 2006	53.4	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.008-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 17/07/2024

Sampling Location . F5 & 4 DISCHARGE POINT (RMHS-1)

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	•	ement/Limit PRY ACT 1948
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	3996.34	ug/m3		10000

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SGS India Pvt. Ltd.
SGS India Pvt Ltd., CS Plot -512(p) , Mouza, Hanspukuria, Diamond Harbour Rd. PO-Joka, South 24 F







SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.010 Issue Date : 31/07/2024

ULR No : TC704724100002156F JOE No : KE24-001356

Report Control No : KER0000223597

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

Sampling Date : 18/07/2024

Sampling Location : NEAR TAIL ESP

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	•	ment/Limit RY ACT 1948
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	de (SO2)	IS 5182 (Part 02): 2006	27.6	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	55.1	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.010-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 18/07/2024

 Sampling Location
 : NEAR TAIL ESP

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	1749.71	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	8664.79	ug/m3		10000

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For any feedback or complaint please write to us at https://sgssurveys.qualtrics.com/jfe/form/SV_eP7WY1kg3NyF4vI







TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001356.011 : 31/07/2024 Report No **Issue Date**

KE24-001356 JOE No **ULR No** TC704724100002157F

KER0000223597 **Report Control No**

Customer Provided Information

: WORKZONE AIR QUALITY MONITORING Sample Described by Customer as

. TATA STEEL LIMITED **Customer Name**

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country : 18/07/2024 Sampling Date

Sampling Location **NEAR CAST HOUSE-1** Sampling Method SO-IN-MUL-TE-176

. WORKZONE AIR QUALITY MONITORING Sample Description

Lab Provided Information

WORKZONE Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 Test Start/End Date

NABL Accredited Tests

Analysis	sis Method Result	Result	Unit	•	rement/Limit ORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxide	e (SO2)	IS 5182 (Part 02): 2006	38.4	ug/m3		5000
Nitrogen Dioxid	le (NO2)	IS 5182 (Part 06) : 2006	57.7	ug/m3		6000

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****End of Report****

Page 1 of 1

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.011-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 18/07/2024

Sampling Location : NEAR CAST HOUSE-1
Sampling Method : SO-IN-MUL-TE-176

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

SGS India Pvt. Ltd.

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	1932.61	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	8532.24	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001356.012
 Issue Date
 : 31/07/2024

 ULR No
 : TC704724100002158F
 JOE No
 : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 18/07/2024

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method Result		Unit	•	ement/Limit DRY ACT 1948	
					Min	Max	
NABL Group :	Atmospheric Pollution	Work Environment a	and Indoor Air Quality				
DISCIPLINE:	CHEMICAL						
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	40.7	ug/m3		5000	
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	78.3	ug/m3		6000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.012-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 18/07/2024

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method Result		Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	1235.07	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	6659.91	ug/m3		10000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704724100002159F JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 18/07/2024

 Sampling Location
 : NEAR HEAD ESP

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	de (SO2)	IS 5182 (Part 02): 2006	46.5	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	81.7	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.013-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 18/07/2024

 Sampling Location
 : NEAR HEAD ESP

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	1731.34	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	3700.73	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.014 Issue Date : 31/07/2024

ULR No : TC704724100002160F JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 18/07/2024

Sampling Location : NEAR CAST HOUSE -2
Sampling Method : SO-IN-MUL-TE-176

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	52.4	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	83.9	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.014-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 18/07/2024

Sampling Location NEAR CAST HOUSE -2
Sampling Method SO-IN-MUL-TE-176

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	1218.10	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	4275.40	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001356.015
 Issue Date
 : 31/07/2024

 ULR No
 : TC704724100002161F
 JOE No
 : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 19/07/2024

Sampling Location : NEAR INDUCTION FURNACE & MAHNESIUM CONVERTER AREA (DIP-1)

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Respirable Su Matter (RSPM)	spended Particulate	IS:5182 (Part-23):2006	311.70	ug/m3		5000
Sulphur Dioxi		IS 5182 (Part 02): 2006	59.2	ug/m3		5000
Nitrogen Diox	ide (NO2)	IS 5182 (Part 06) : 2006	74.9	ug/m3		6000

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For any feedback or complaint please write to us at https://sgssurveys.qualtrics.com/jfe/form/SV_eP7WY1kg3NyF4vI



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.015-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 19/07/2024

Sampling Location . NEAR INDUCTION FURNACE & MAHNESIUM CONVERTER AREA (DIP-1)

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	•	nent/Limit Y ACT 1948
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	3629.99	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.016 Issue Date : 31/07/2024

ULR No : TC704724100002162F JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 19/07/2024

Sampling Location . NEAR ZINC COATING FL-1

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

SGS India Pvt. Ltd.

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
•	spended Particulate	IS:5182 (Part-23):2006	457.97	ug/m3		5000
Matter (RSPM) Sulphur Dioxid		IS 5182 (Part 02): 2006	42.5	ug/m3		5000
Nitrogen Dioxi	ide (NO2)	IS 5182 (Part 06) : 2006	71.9	ug/m3		6000

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****End of Report****

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.016-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 19/07/2024

Sampling Location . NEAR ZINC COATING FL-1

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	•	ement/Limit PRY ACT 1948
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	2678.28	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.017 Issue Date : 31/07/2024

ULR No : TC704724100002163F JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 19/07/2024

Sampling Location . NEAR BITUMEN COATING FL-1

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

SGS India Pvt. Ltd.

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Respirable Su Matter (RSPM)	spended Particulate	IS:5182 (Part-23):2006	106.70	ug/m3		5000
Sulphur Dioxid	•	IS 5182 (Part 02): 2006	49.7	ug/m3		5000
Nitrogen Dioxi	ide (NO2)	IS 5182 (Part 06) : 2006	74.4	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.017-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 19/07/2024

Sampling Location . NEAR BITUMEN COATING FL-1

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948		
				Min	Max	
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	672.66	ug/m3		10000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704724100002164F JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 19/07/2024

Sampling Location : NEAR LADDLE PRE HEATING AREA

Sampling Method SO-IN-MUL-TE-176

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE
Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method Result Unit	Requirement/Limit FACTORY ACT 194			
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Respirable Su Matter (RSPM)	spended Particulate	IS:5182 (Part-23):2006	291.19	ug/m3		5000
Sulphur Dioxi		IS 5182 (Part 02): 2006	38.9	ug/m3		5000
Nitrogen Diox	ide (NO2)	IS 5182 (Part 06) : 2006	69.7	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.018-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 19/07/2024

Sampling Location . NEAR LADDLE PRE HEATING AREA

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948		
				Min	Max	
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	1382.38	ug/m3		10000	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.019 Issue Date : 31/07/2024

ULR No : TC704724100002165F JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 19/07/2024

Sampling Location . NEAR EXTERNAL COATING FL-3

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Respirable Su	spended Particulate	IS:5182 (Part-23):2006	211.78	ug/m3		5000
Matter (RSPM)	•	IC 5400 (D-++ 00) - 2000	20.2			5000
Sulphur Dioxi	ae (502)	IS 5182 (Part 02) : 2006	30.3	ug/m3		5000
Nitrogen Diox	ide (NO2)	IS 5182 (Part 06) : 2006	68.0	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.019-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 19/07/2024

Sampling Location . NEAR EXTERNAL COATING FL-3

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	494.31	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.020 Issue Date : 31/07/2024

ULR No : TC704724100002166F JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 19/07/2024

Sampling Location . NEAR ZINC COATING FL-3

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE
Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Respirable Su Matter (RSPM)	spended Particulate	IS:5182 (Part-23):2006	295.33	ug/m3		5000
Sulphur Dioxi		IS 5182 (Part 02): 2006	29.4	ug/m3		5000
Nitrogen Diox	ide (NO2)	IS 5182 (Part 06) : 2006	64.1	ug/m3		6000

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For any feedback or complaint please write to us at https://sgssurveys.qualtrics.com/jfe/form/SV_eP7WY1kg3NyF4vI



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.020-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 19/07/2024

Sampling Location . NEAR ZINC COATING FL-3

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948		
				Min	Max	
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	1862.90	ug/m3		10000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704724100002167F JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 20/07/2024

Sampling Location . DI PLANT DISPATCH YARD

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
		Work Environment and Indeer Air Quality	Min	Max		
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Respirable Sus	spended Particulate	IS:5182 (Part-23):2006	346.57	ug/m3		5000
Matter (RSPM)						
Sulphur Dioxid	le (SO2)	IS 5182 (Part 02): 2006	41.6	ug/m3		5000
Nitrogen Dioxi	de (NO2)	IS 5182 (Part 06) : 2006	69.7	ug/m3		6000

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****End of Report****

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.021-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 20/07/2024

Sampling Location . DI PLANT DISPATCH YARD

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	1577.24	ug/m3		10000

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 : KE24-001356.022 Issue Date : 31/07/2024

ULR No : TC704724100002168F JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 20/07/2024

Sampling Location : NEAR BITUMEN EXTERNAL COATING FL-4(DIP-1)

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method Result Unit	Requirement/Limit FACTORY ACT 194			
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Respirable Su Matter (RSPM)	spended Particulate	IS:5182 (Part-23):2006	160.91	ug/m3		5000
Sulphur Dioxid		IS 5182 (Part 02): 2006	25.8	ug/m3		5000
Nitrogen Dioxi	ide (NO2)	IS 5182 (Part 06) : 2006	56.8	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.022-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 20/07/2024

Sampling Location . NEAR BITUMEN EXTERNAL COATING FL-4(DIP-1)

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	1030.29	ug/m3		10000

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SGS India Pvt. Ltd. SGS India Pvt Ltd., CS Plot -512(p) ,Mouza, Hanspukuria,Diamond Harbour Rd.PO-Joka







SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.023 Issue Date : 31/07/2024

ULR No : TC704724100002169F JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 20/07/2024

Sampling Location . NEAR CORE SHOP (DIP-1)

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	•	ment/Limit RY ACT 1948
				Mir	Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Sulphur Dioxid	de (SO2)	IS 5182 (Part 02): 2006	31.2	ug/m3		5000
Nitrogen Dioxi	ide (NO2)	IS 5182 (Part 06) : 2006	62.8	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.023-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 20/07/2024

Sampling Location . NEAR CORE SHOP (DIP-1)

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	1149.69	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	4048.92	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 :
 KE24-001356.024
 Issue Date
 :
 31/07/2024

 ULR No
 :
 TC704724100002170F
 JOE No
 :
 KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 20/07/2024

Sampling Location : NEAR BITUMEN EXTERNAL COATING FL-4 & FL-5(DIP-2)

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

SGS India Pvt. Ltd.

Analysis	Method Result	Result	Unit	•	ment/Limit RY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Respirable Sus Matter (RSPM)	spended Particulate	IS:5182 (Part-23):2006	110.98	ug/m3		5000
Sulphur Dioxid		IS 5182 (Part 02): 2006	29.4	ug/m3		5000
Nitrogen Dioxi	ide (NO2)	IS 5182 (Part 06) : 2006	54.6	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001356.024-B : 31/07/2024 Report No **Issue Date**

> KE24-001356 JOE No

KER0000223597 Report Control No

Customer Provided Information

: WORKZONE AIR QUALITY MONITORING Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name**

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country : 20/07/2024 Sampling Date

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

Sampling Method SO-IN-MUL-TE-176

. WORKZONE AIR QUALITY MONITORING Sample Description

Lab Provided Information

WORKZONE Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 Test Start/End Date

Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	681.21	ug/m3		10000

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SGS India Pvt. Ltd.







TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001356.025
 Issue Date
 : 31/07/2024

 ULR No
 : TC704724100002171F
 JOE No
 : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 20/07/2024

Sampling Location : NEAR CCM AREA(DIP-1)
Sampling Method : SO-IN-MUL-TE-176

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis	nalysis Method	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Respirable Su Matter (RSPM)	spended Particulate	IS:5182 (Part-23):2006	478.62	ug/m3		5000
Sulphur Dioxi	•	IS 5182 (Part 02): 2006	42.0	ug/m3		5000
Nitrogen Diox	ide (NO2)	IS 5182 (Part 06) : 2006	72.7	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.025-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 20/07/2024

Sampling Location : NEAR CCM AREA(DIP-1)
Sampling Method : SO-IN-MUL-TE-176

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	•	ement/Limit RY ACT 1948
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	2681.05	ug/m3		10000

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For any feedback or complaint please write to us at https://sgssurveys.qualtrics.com/jfe/form/SV_eP7WY1kg3NyF4vI







TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001356.026
 Issue Date
 : 31/07/2024

 ULR No
 : TC704724100002172F
 JOE No
 : KE24-001356

ULR No : TC704724100002172F

KER0000223597

Customer Provided Information

Report Control No

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

 Sampling Date
 : 20/07/2024

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis	alysis Method	Result	Unit	•	irement/Limit TORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Respirable Su Matter (RSPM)	spended Particulate	IS:5182 (Part-23):2006	260.44	ug/m3		5000
Sulphur Dioxi	•	IS 5182 (Part 02): 2006	38.4	ug/m3		5000
Nitrogen Diox	ide (NO2)	IS 5182 (Part 06) : 2006	66.3	ug/m3		6000

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****End of Report****

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Page 1 of 1

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001356.026-B : 31/07/2024 Report No **Issue Date**

> KE24-001356 JOE No

: KER0000223597 Report Control No

Customer Provided Information

: WORKZONE AIR QUALITY MONITORING Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name**

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country : 20/07/2024 Sampling Date

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

. WORKZONE AIR QUALITY MONITORING Sample Description

Lab Provided Information

WORKZONE Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 Test Start/End Date

Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	3770.49	ug/m3		10000

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****End of Report****

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Page 1 of 1

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SGS India Pvt. Ltd.







TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704724100002173F JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 22/07/2024

Sampling Location : NEAR CCM AREA DIP-2
Sampling Method : SO-IN-MUL-TE-176

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE
Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis	analysis Method	Result	Unit	•	ment/Limit RY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Respirable Su Matter (RSPM)	spended Particulate	IS:5182 (Part-23):2006	300.91	ug/m3		5000
Sulphur Dioxi		IS 5182 (Part 02): 2006	41.1	ug/m3		5000
Nitrogen Diox	ide (NO2)	IS 5182 (Part 06) : 2006	75.7	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.027-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 22/07/2024

Sampling Location : NEAR CCM AREA DIP-2
Sampling Method : SO-IN-MUL-TE-176

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit RY ACT 1948
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	765.85	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001356.028
 Issue Date
 : 31/07/2024

 ULR No
 : TC704724100002174F
 JOE No
 : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 22/07/2024

Sampling Location : NEAR CORE SHOP DIP-2
Sampling Method : SO-IN-MUL-TE-176

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis	nalysis Method Re	Result	Unit	•	ement/Limit PRY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Respirable Su Matter (RSPM)	spended Particulate	IS:5182 (Part-23):2006	383.75	ug/m3		5000
Sulphur Dioxi	•	IS 5182 (Part 02): 2006	32.5	ug/m3		5000
Nitrogen Diox	ide (NO2)	IS 5182 (Part 06) : 2006	68.8	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.028-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 22/07/2024

Sampling Location : NEAR CORE SHOP DIP-2
Sampling Method : SO-IN-MUL-TE-176

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirem FACTOR	ent/Limit Y ACT 1948
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	1186.41	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001356.029
 Issue Date
 : 31/07/2024

 ULR No
 : TC704724100002175F
 JOE No
 : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 22/07/2024

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

Sampling Method SO-IN-MUL-TE-176

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis	ysis Method Resu	Result	Unit	•	ment/Limit RY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a	nd Indoor Air Quality			
DISCIPLINE:	CHEMICAL					
Respirable Su Matter (RSPM)	spended Particulate	IS:5182 (Part-23):2006	181.69	ug/m3		5000
Sulphur Dioxi	•	IS 5182 (Part 02): 2006	28.9	ug/m3		5000
Nitrogen Diox	ide (NO2)	IS 5182 (Part 06) : 2006	56.4	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.029-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 22/07/2024

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

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	•	quirement/Limit CTORY ACT 1948	
				Min	Max	
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	1098.04	ug/m3		10000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001356.030
 Issue Date
 : 31/07/2024

 ULR No
 : TC704724100002176F
 JOE No
 : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 22/07/2024

Sampling Location : NEAR MAGNESIUM CONVERTOR AREA(DIP-2)

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a				
DISCIPLINE:	CHEMICAL					
Respirable Su Matter (RSPM)	spended Particulate	IS:5182 (Part-23):2006	153.67	ug/m3		5000
Sulphur Dioxide (SO2)		IS 5182 (Part 02): 2006	55.6	ug/m3		5000
Nitrogen Dioxide (NO2)		IS 5182 (Part 06) : 2006	74.4	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.030-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 22/07/2024

Sampling Location NEAR MAGNESIUM CONVERTOR AREA(DIP-2)

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948		
				Min	Max	
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	640.67	ug/m3		10000	

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For any feedback or complaint please write to us at https://sgssurveys.qualtrics.com/jfe/form/SV_eP7WY1kg3NyF4vI





JOE No



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001356.031 : 31/07/2024 Report No **Issue Date** KE24-001356

KER0000223597 Report Control No

Customer Provided Information

ULR No

: WORKZONE AIR QUALITY MONITORING Sample Described by Customer as

. TATA STEEL LIMITED **Customer Name**

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

TC704724100002177F

PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country : 22/07/2024 Sampling Date

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

Sampling Method SO-IN-MUL-TE-176

. WORKZONE AIR QUALITY MONITORING Sample Description

Lab Provided Information

WORKZONE Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 Test Start/End Date

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a				
DISCIPLINE:	CHEMICAL					
Respirable Sus Matter (RSPM)	spended Particulate	IS:5182 (Part-23):2006	114.28	ug/m3		5000
Sulphur Dioxide (SO2)		IS 5182 (Part 02): 2006	34.3	ug/m3		5000
Nitrogen Dioxide (NO2)		IS 5182 (Part 06) : 2006	58.1	ug/m3		6000

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SGS India Pvt. Ltd.



SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.031-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 22/07/2024

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

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	•	irement/Limit FORY ACT 1948	
				Min	Max	
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	510.70	ug/m3		10000	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.032 Issue Date : 31/07/2024

ULR No : TC704724100002178F JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 23/07/2024

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

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	Work Environment a				
DISCIPLINE:	CHEMICAL					
Sulphur Dioxide (SO2)		IS 5182 (Part 02): 2006	44.3	ug/m3		5000
Nitrogen Dioxide (NO2)		IS 5182 (Part 06) : 2006	77.4	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001356.032-B Issue Date : 31/07/2024

JOE No : KE24-001356

Report Control No : KER0000223597

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

 Sampling Date
 : 23/07/2024

Sampling Location NEAR SCRAP YARD

Sample Description . WORKZONE AIR QUALITY MONITORING

SO-IN-MUL-TE-176

Lab Provided Information

Sampling Method

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate	IS:5182 (Part-23):2006	1022.08	ug/m3		5000
Matter (RSPM) Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	2478.31	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001356.033
 Issue Date
 : 31/07/2024

 ULR No
 : TC704724100002179F
 JOE No
 : KE24-001356

Report Control No : KER0000223597

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
Sampling Date : 23/07/2024
Sampling Location : NEAR CPP-4
Sampling Method : SO-IN-MUL-TE-176

Sample Description . WORKZONE AIR QUALITY MONITORING

Lab Provided Information

Sample Type : WORKZONE Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

SGS India Pvt. Ltd.

Analysis		Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
					Min	Max
NABL Group :	Atmospheric Pollution	ution Work Environment and Indoor Air Quality				
DISCIPLINE:	CHEMICAL					
Respirable Su Matter (RSPM)	spended Particulate	IS:5182 (Part-23):2006	126.86	ug/m3		5000
Sulphur Dioxide (SO2)		IS 5182 (Part 02): 2006	29.4	ug/m3		5000
Nitrogen Dioxide (NO2)		IS 5182 (Part 06) : 2006	74.0	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001356.033-B : 31/07/2024 Report No **Issue Date**

> KE24-001356 JOE No

KER0000223597 Report Control No

Customer Provided Information

: WORKZONE AIR QUALITY MONITORING Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name**

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country : 23/07/2024 Sampling Date **NEAR CPP-4** Sampling Location SO-IN-MUL-TE-176 Sampling Method

. WORKZONE AIR QUALITY MONITORING Sample Description

Lab Provided Information

WORKZONE Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 Test Start/End Date

Non-Accredited tests

Analysis	Method	Result	Unit	•	uirement/Limit CTORY ACT 1948	
				Min	Max	
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	628.43	ug/m3		10000	

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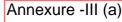
MONTHLY SUMMARY REPORT OF CONTINUOUS AMBIENT AIR QUALITY MONITORING STATION (CAAQMS)

Month	Apr'24	May'24	Jun'24	Jul'24	Aug'24	Sep'24	Limit
PM ₁₀ (μg/m³)	90.3	41.9	42.5	49.1	65.3	58.9	100
PM _{2.5} (μg/m³)	51.4	23.3	23.3	27.2	33.4	30.4	60
SO ₂ (μg/m³)	8.5	17.7	21.5	10.7	10.9	11.6	80
NO ₂ (μg/m³)	10.3	11.7	11.8	17.4	9.4	15.9	80
CO (mg/m³)	0.58	0.59	0.43	0.86	1.05	1.04	2
O ₃ (μg/m³)	55.4	33.9	34.9	21.2	30.9	30.3	180

			Sta	ck Emission (CEM	IS) Monthly Av	erage Report				
				Pig Iron Div	ision	Paramete	er-Particulate	Matter (PM)		
Month	MBF-1 Stove (mg/Nm³)	MBF-2 Stove (mg/Nm³)	MBF-1 Cast house FES (mg/Nm³)	MBF-2 Sinter Daybin- RMHS#2 (mg/Nm³)	RMHS-1 Dedusting system (mg/Nm³)	RFP Sinter Plant bag filter (mg/Nm³)	Head ESP Sinter (mg/Nm³)	Tail ESP Sinter (mg/Nm³)	Flux Crusher (mg/Nm³)	CPP#2 Boiler (mg/Nm3)
Apr-24	5.30	2.00	16.20	7.20	19.20	8.30	53.20	14.60	5.40	11.00
May-24	7.80	4.80	16.06	4.58	18.41	2.57	48.16	16.18	2.14	8.67
Jun-24	7.34	15.61	7.46	3.18	15.93	16.26	43.19	8.77	2.36	11.64
Jul-24	19.02	5.06	13.43	6.09	42.40	25.76	42.12	6.08	1.50	7.37
Aug-24	7.10	3.09	2.62	9.91	2.02	13.83	42.42	2.15	1.00	10.49
Sep-24	1.61	2.53	2.10	8.93	1.00	1.48	34.71	1.80	1.00	18.24

				Ductile Iron Pipe Divi	ision	Parame	ter- Particula	ate Matter (PM	(1)
Month	Magnesium Converter (mg/Nm³)	Zinc Coating FL-1 (DN- 80- 400) (mg/Nm³)	Barrel and Socket grinders FL-1 (mg/Nm³)	Zinc Coating FL-2 (DN-400-800) (mg/Nm³)	Core Shop/sand cleaning (mg/Nm³)	Annealing Furnace (mg/Nm³)	WHRB - 8 TPH (mg/Nm³)	Zinc Coating FL#3 (mg/Nm³)	Tri Grinding FL#3 (mg/Nm³)
Apr-24	8.90	1.70	2.40		1.80	6.63	2.00	7.70	11.19
May-24	7.51	1.84	1.89		2.50	4.32	2.17	1.17	8.77
Jun-24	8.71	1.54	1.39	1.15	1.36	5.59	2.91	1.00	5.36
Jul-24	4.06	2.01	1.25	8.08	1.58	4.26	2.09	1.89	1.00
Aug-24	4.46	1.68	1.00	12.24	1.47	4.35	1.00	1.00	1.00
Sep-24	3.98	1.58	1.00	28.92	1.37	4.32	3.10	1.52	1.00









· 31/07/2024

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Issue Date

KE24-001363 **ULR No** TC704724100002180F JOE No

KER0000223525 Report Control No

Customer Provided Information

Report No

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

METALIKS DIVISION KHARAGPUR **Customer Address**

KE24-001363.001

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country

: 16/07/2024 14:40 - 15:20HRS Sampling Date

Sampling Location CPP-2 STACK Sampling Method SO-IN-MUL-TE-176 BOILER NO 2 Stack Connected to

: COMBUSTION OF BFG **Emission Due to**

: 22TPH Capacity : 2350KW **Running Load**

. BFG(BLAST FURNACE GAS) **Fuel Used**

40 M

22000 NM3/HR (BFG) **Fuel Consumption**

Height of Stack from

Ground Level

Port Hole Available : 01 : 2.6 M Diameter of Stack : MS Construction

Material of Stack

: Circular Type of Stack : 36. M Height of Sampling

Point from GL

: Yes Platform & Ladder at

Stack

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

: 25/07/2024 - 30/07/2024 **Test Start/End Date**

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Carbon Dioxide (CO2)	USEPA METHOD 3A	25.2	%		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001363.001 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002180F JOE No

Report Control No KER0000223525

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
DISCIPLINE: CHEMICAL					
Moisture	IS 11255 Part 3:1985	3.53	%		
Temperature	IS 11255 Part 3:1985	120	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	4.83	m/s		
Flow rate	IS 11255 Part 3:1985	66409	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	5.4	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	28.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	20.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	5.64	mg/Nm3		100

Remark: All parameters are done at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 KE24-001363.002 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002181F JOE No

KER0000223525 Report Control No

Customer Provided Information

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

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

. PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country

: 17/07/2024 11:00 - 11:40HRS Sampling Date . MBF -1 STOVE STACK Sampling Location : SO-IN-MUL-TE-176 Sampling Method . MBF -1 STOVE Stack Connected to

: COMBUSTION OF BFG **Emission Due to**

Height of Stack from

Ground Level

: 45M : 02

Port Hole Available : NIL **Pollution Control**

Device

Diameter of Stack . 2.0 M : MS

Construction **Material of Stack**

: Circular Type of Stack 36.2.0M

Height of Sampling

Point from GL : Yes Platform & Ladder at

Stack

Fuel Used BAG BLAST FURNACE GAS

: FLUE GAS Sample Description

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 Test Start/End Date

NABL Accredited Tests

Min	uirement/Limit WBPCB	•	Result	Method		Analysis	
	Max	Min					
NABL Group : Atmospheric Pollution Stack emission				Stack emission	Atmospheric Pollution	NABL Group :	
Carbon Dioxide (CO2) USEPA METHOD 3A 27.5 %		%	27.5	USEPA METHOD 3A	e (CO2)	Carbon Dioxid	

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001363.002 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002181F JOE No

Report Control No KER0000223525

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group: Atmospheric Pollution	on Stack emission				
DISCIPLINE: CHEMICAL					
Moisture	IS 11255 Part 3:1985	3.44	%		
Temperature	IS 11255 Part 3:1985	148	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	12.73	m/s		
Flow rate	IS 11255 Part 3:1985	96832	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	5.6	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	12.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	40.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	19.02	mg/Nm3		100

Remark: All parameters are done at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 KE24-001363.003 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002182F JOE No

KER0000223525 Report Control No

Customer Provided Information

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

Customer Name METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country

: 17/07/2024 14:50 - 15:30HR Sampling Date . MBF-2 STOVE STACK Sampling Location SO-IN-MUL-TE-176 Sampling Method . MBF-2 STOVE Stack Connected to

: COMBUSTION OF BFG **Emission Due to**

Height of Stack from

Ground Level

: 45M

Port Hole Available : 02 . 2.0 M Diameter of Stack : MS Construction

Material of Stack

: Circular Type of Stack 36.2 M Height of Sampling

Point from GL

Platform & Ladder at

: Yes

Stack

Fuel Used

BFG (BLAST FURNACE GAS)

: FLUE GAS Sample Description

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 Test Start/End Date

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max	
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxid DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	28.4	%		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001363.003 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002182F JOE No

KER0000223525 **Report Control No**

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	3.48	%		
Temperature	IS 11255 Part 3:1985	164	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	11.86	m/s		
Flow rate	IS 11255 Part 3:1985	86907	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	3.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	45.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	19.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	0.6	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	5.06	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 : KE24-001363.004 Issue Date : 31/07/2024

ULR No : TC704724100002183F JOE No : KE24-001363

Report Control No : KER0000223525

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 <u>19/07/2024 10:50 - 11:30HRS</u>

Sampling Location : MAGNESIUM CONVERTOR & INDUCTION FURNACE COMMON STACK (DIP 1)

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

Stack Connected to . MAGNESIUM CONVERTOR & INDUCTION FURNACE BAG FILTER

Emission Due to : DEDUSTING PROCESS

: 30 M

Height of Stack from

Ground Level

Port Hole Available : 2

Pollution Control : BAG FILTER

Device

Diameter of Stack : 0.7M Construction : MS

Material of Stack

Type of Stack : Circular Height of Sampling : 20.0 M

Point from GL

Platform & Ladder at : Yes

Stack

Sample Description . FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001363.004 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002183F JOE No

Report Control No KER0000223525

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	1.8	%		
Temperature	IS 11255 Part 3:1985	40	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	6.28	m/s		
Flow rate	IS 11255 Part 3:1985	7829	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	34.55	mg/Nm3		100

Remark: All parameters are done at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 KE24-001363.005 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002184F JOE No

KER0000223525 Report Control No

Customer Provided Information

: FLUE GAS Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name**

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

. PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country

: 19/07/2024 12:00 - 12:40HRS Sampling Date

. BARREL & SOCKET GRINDING FL 1 STACK Sampling Location

Sampling Method SO-IN-MUL-TE-176

. BARREL & SOCKET GRINDING FL 1 Stack Connected to

: DEDUSTING PROCESS **Emission Due to**

Height of Stack from Port Hole Available

Ground Level

: 30 M : 02

 BAG FILTER **Pollution Control**

Device

Diameter of Stack . 0.9M

Construction

: MS **Material of Stack**

Type of Stack

: Circular 22 M Height of Sampling

Point from GL

: Yes Platform & Ladder at

Stack

Sample Description . FLUE GAS

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 **Test Start/End Date**

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001363.005 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002184F JOE No

Report Control No KER0000223525

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	38	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	8.28	m/s		
Flow rate	IS 11255 Part 3:1985	17536	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	5.98	mg/Nm3		100

Remark: All parameters are done at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704724100002185F JOE No : KE24-001363

Report Control No : KER0000223525

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 : 19/07/2024 16:50 -17:20HRS
Sampling Location : TRI GRINDING FL-3 STACK

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

Stack Connected to : TRI GRINDING FL-3 BAG FILTER

Emission Due to : DEDUSTING PROCESS

Height of Stack from

Port Hole Available

Ground Level

: 02

: 30.0 M

Pollution Control : BAG FILTER

Device

Diameter of Stack : 0.6 M Construction : MS

Material of Stack

Type of Stack : Circular Height of Sampling : 22 M

Point from GL

Platform & Ladder at : Yes

Stack

Sample Description . FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001363.006 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002185F JOE No

Report Control No KER0000223525

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	1.8	%		
Temperature	IS 11255 Part 3:1985	44	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	7.22	m/s		
Flow rate	IS 11255 Part 3:1985	6678	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.9	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	4.92	mg/Nm3		100

Remark: All parameters are done at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 KE24-001363.007 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002186F JOE No

KER0000223525 Report Control No

Customer Provided Information

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

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

. PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country

: 19/07/2024 12:55 -13:35HRS Sampling Date . ZINC COATING M/C FL-1 STACK Sampling Location

Sampling Method SO-IN-MUL-TE-176 . ZINC COATING M/C FL-1 Stack Connected to : DEDUSTING PROCESS **Emission Due to**

Height of Stack from

Ground Level

: 30.0 M

Port Hole Available : 01

 BAG FILTER **Pollution Control**

Device

. 0.9 M Diameter of Stack : MS Construction

Material of Stack

: Circular Type of Stack 24.0 M **Height of Sampling**

Point from GL

Platform & Ladder at

: Yes

Stack

Sample Description . FLUE GAS

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 **Test Start/End Date**

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001363.007 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002186F JOE No

KER0000223525 **Report Control No**

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	44	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	6.68	m/s		
Flow rate	IS 11255 Part 3:1985	13886	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	5.09	mg/Nm3		100

Remark: All parameters are done at site except PM.

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SATYA CHARAN MANNA

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****End of Report****

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 KE24-001363.008 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002187F JOE No

KER0000223525 Report Control No

Customer Provided Information

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

Customer Name METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

. PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country

: 22/07/2024 09:55 -10:35HRS Sampling Date . ZINC COATING M/C FL-2 STACK Sampling Location

Sampling Method SO-IN-MUL-TE-176 . ZINC COATING M/C FL-2 Stack Connected to : DEDUSTING PROCESS **Emission Due to**

Height of Stack from

: 30M

Ground Level

Port Hole Available : 02 : 1.2M Diameter of Stack : MS Construction

Material of Stack

: Circular Type of Stack 22 M Height of Sampling

Point from GL

Platform & Ladder at

: Yes

Stack

Sample Description . FLUE GAS

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

Device

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 **Test Start/End Date**

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001363.008 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002187F JOE No

Report Control No KER0000223525

NABL Accredited Tests

Analysis	Method	Method Result		Unit	Requirement/Limit WBPCB	
				Min	Max	
NABL Group: Atmospheric Pollution	Stack emission					
Moisture	IS 11255 Part 3:1985	1.79	%			
Temperature	IS 11255 Part 3:1985	41	°C			
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg			
Velocity	IS 11255 Part 3:1985	5.39	m/s			
Flow rate	IS 11255 Part 3:1985	20128	Nm3/Hrs			
Oxygen (O2)	USEPA (Method 3A)	20.8	%			
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3			
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3			
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1	
Particulate Matter (PM)	IS:11255 (Part-1):1985	5.04	mg/Nm3		100	

Remark: All parameters are done at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 KE24-001363.009 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002188F JOE No

KER0000223525 Report Control No

Customer Provided Information

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

Customer Name METALIKS DIVISION KHARAGPUR

Customer Address

SAMRAIPUR, GOKULPUR . PASCHIM MEDINIPUR City

. 721301 **Postal Code**

: INDIA Country

: 22/07/2024 10:45 - 11:25HRS Sampling Date . TRI GRINDING FL-2 STACK Sampling Location

Sampling Method SO-IN-MUL-TE-176 : TRI GRINDING FL-2 Stack Connected to : DESUSTING PROCESS **Emission Due to**

Height of Stack from

Ground Level

: 30.0 M

Port Hole Available : 02 : 1.2 M Diameter of Stack : MS Construction

Material of Stack

: Circular Type of Stack 22.0 M

Height of Sampling Point from GL

Platform & Ladder at

: Yes

Stack

Sample Description . FLUE GAS . BAG FILTER **Pollution Control**

Device

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 **Test Start/End Date**

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001363.009 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002188F JOE No

Report Control No KER0000223525

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	1.8	%		
Temperature	IS 11255 Part 3:1985	42	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	5.11	m/s		
Flow rate	IS 11255 Part 3:1985	19025	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	4.43	mg/Nm3		100

Remark: All parameters are done at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE24-001363.010 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002189F JOE No

KER0000223525 Report Control No

Customer Provided Information

: FLUE GAS Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name**

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

. PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country

: 22/07/2024 12:00 - 12:40HRS Sampling Date : WHR BOILER STACK (DIP-1) Sampling Location

Sampling Method : SO-IN-MUL-TE-176 : WHR BOILER Stack Connected to

: ANNEALING FURNACE WASTE HEAT **Emission Due to**

Height of Stack from

Ground Level

: 30.0 M

Port Hole Available : 02 **Pollution Control**

Device

· NIL

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

Sample Description . FLUE GAS

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 **Test Start/End Date**

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Carbon Dioxide (CO2) DISCIPLINE: CHEMICAL	USEPA METHOD 3A	14.5	%		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001363.010 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002189F JOE No

Report Control No KER0000223525

NABL Accredited Tests

Analysis	sis Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.48	%		
Temperature	IS 11255 Part 3:1985	192	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	7.96	m/s		
Flow rate	IS 11255 Part 3:1985	16743	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	8.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	24.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	14.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	4.20	mg/Nm3		100

Remark: All parameters are done at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE24-001363.011 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002190F JOE No

KER0000223525 Report Control No

Customer Provided Information

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

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

. PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country

: 22/07/2024 12:00 - 12:40HRS Sampling Date . ANNEALING FURNACE STACK Sampling Location

Sampling Method : SO-IN-MUL-TE-176 Stack Connected to ANNEALING FURNACE : COMBUSTION OF BFG **Emission Due to**

Height of Stack from

Ground Level

: 30.0 M

Port Hole Available **Pollution Control**

: 02 · NIL

Device Diameter of Stack

Construction

· 1.2M

: MS

Material of Stack Type of Stack

: Circular

Height of Sampling

Point from GL

20 M

Platform & Ladder at

: Yes

Stack

Sample Description . FLUE GAS

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 **Test Start/End Date**

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Carbon Dioxide (CO2) DISCIPLINE: CHEMICAL	USEPA METHOD 3A	15.3	%		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001363.011 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002190F JOE No

Report Control No KER0000223525

NABL Accredited Tests

Analysis	Method	Result	Unit	•	ment/Limit BPCB
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.13	%		
Temperature	IS 11255 Part 3:1985	82	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	7.71	m/s		
Flow rate	IS 11255 Part 3:1985	25375	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	7.9	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	20.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	12.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	3.40	mg/Nm3		100

Remark: All parameters are done at site except PM.

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SATYA CHARAN MANNA

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE24-001363.012 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002191F JOE No

KER0000223525 Report Control No

Customer Provided Information

: FLUE GAS Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name**

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

. PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country

: 22/07/2024 12:00 - 12:40HRS Sampling Date

Sampling Location . SAND CLEANING SYSTEM STACK (CORE SHOP)

Sampling Method SO-IN-MUL-TE-176

. SAND CLEANING SYSTEM BAG FILTER Stack Connected to

: DEDUSTING PROCESS **Emission Due to**

Height of Stack from

Ground Level

: 30.0 M

Port Hole Available : 02

 BAG FILTER **Pollution Control**

Device

Diameter of Stack . 0.6M : MS Construction

Material of Stack

: Circular Type of Stack 22 M

Height of Sampling Point from GL

: Yes Platform & Ladder at

Stack

Sample Description . FLUE GAS

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 **Test Start/End Date**

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001363.012 · 31/07/2024 Report No **Issue Date**

KE24-001363 **ULR No** TC704724100002191F JOE No

KER0000223525 **Report Control No**

NABL Accredited Tests

Analysis	alysis Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	1.87	%		
Temperature	IS 11255 Part 3:1985	43	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	5.69	m/s		
Flow rate	IS 11255 Part 3:1985	5279	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.9	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	5.09	mg/Nm3		100

Remark: All parameters are done at site except PM.

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

Uamas

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001364.001 : 30/07/2024 Report No **Issue Date** KE24-001364 JOE No

KER0000223431 Report Control No

Customer Provided Information

ULR No

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

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

TC704724100002124F

PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country

: 17/07/2024 13:00 -13:40hrs Sampling Date MBF-1 CAST HOUSE FES STACK Sampling Location

SO-IN-MUL-TE-176 Sampling Method

. MBF-1 CAST HOUSE FES STACK Stack Connected to

: 43.6 M

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

Height of Stack from

Port Hole Available

Ground Level

: 02

: BAG FILTER **Pollution Control**

Device

: 2.0 M Diameter of Stack : MS Construction

Material of Stack

: Circular Type of Stack 38.5M **Height of Sampling**

Point from GL

: Yes Platform & Ladder at

Stack

Sample Description : FLUE GAS

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 Test Start/End Date

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001364.001 : 30/07/2024 Report No **Issue Date** KE24-001364 JOE No **ULR No** TC704724100002124F

KER0000223431 **Report Control No**

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	%		
Temperature	IS 11255 Part 3:1985	40	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	11.31	m/s		
Flow rate	IS 11255 Part 3:1985	114504	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.7	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	4.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	8.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	50.63	mg/Nm3		100

Remark: All parameters are done at site except PM

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001364.002 Issue Date : 30/07/2024

ULR No : TC704724100002125F JOE No : KE24-001364

Report Control No : KER0000223431

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 : 17/07/2024 12:05 - 12:45HRS

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

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

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

Emission Due to PROCESS ACTIVITY

Height of Stack from

Ground Level

: 40.0 M

Port Hole Available : 02

Pollution Control : BAG FILTER

Device

Diameter of Stack : 2.3M Construction : MS

Material of Stack

Type of Stack : Circular Height of Sampling : 25.0M

Point from GL

Platform & Ladder at

: Yes

Stack

Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001364.002 : 30/07/2024 Report No **Issue Date** KE24-001364 JOE No **ULR No** TC704724100002125F

KER0000223431 **Report Control No**

NABL Accredited Tests

Analysis	ysis 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	10.92	m/s		
Flow rate	IS 11255 Part 3:1985	149879	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	6.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	32.01	mg/Nm3		100

Remark: All parameters are done at site except PM

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704724100002126F JOE No : KE24-001364

Report Control No : KER0000223431

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 : 17/07/2024 16:00 - 16:40HRS
Sampling Location : SINTER STORAGE BIN (RMHS#2)

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

Stack Connected to : SINTER STORAGE BIN (RMHS#2)

: BAG FILTER

Emission Due to PROCESS ACTIVITY

Height of Stack from

Ground Level

: 30M

Port Hole Available : 02

Pollution Control

Device

: 1.1M

Construction : MS

Material of Stack

Diameter of Stack

Type of Stack : Circular

Height of Sampling : 25M

Point from GL

Platform & Ladder at

: Yes

Stack

Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001364.003 : 30/07/2024 Report No **Issue Date**

KE24-001364 JOE No **ULR No** TC704724100002126F

KER0000223431 **Report Control No**

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	45	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	11.09	m/s		
Flow rate	IS 11255 Part 3:1985	34286	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.7	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	4.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	5.23	mg/Nm3		100

Remark: All parameters are done at site except PM

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001364.004 : 30/07/2024 Report No **Issue Date** KE24-001364 JOE No **ULR No** TC704724100002127F

KER0000223431 Report Control No

Customer Provided Information

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

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country

: 18/07/2024 10:40 - 11:20HRS Sampling Date

: 45 M

. HEAD ESP STACK(SINTER PLANT) Sampling Location

SO-IN-MUL-TE-176 Sampling Method

. HEAD ESP Stack Connected to

Emission Due to : COMBUSTION OF BFG (SINTER PROUCTION)

Height of Stack from

Ground Level

Port Hole Available : 4 : ESP

Pollution Control

Device : 2.3 M **Diameter of Stack** : MS

Construction **Material of Stack**

: Circular Type of Stack : 40.0 M

Height of Sampling Point from GL

Platform & Ladder at

: Yes

Stack

Sample Description : FLUE GAS

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 Test Start/End Date

NABL Accredited Tests

Analysis	Method Result	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Carbon Dioxide (CO2) DISCIPLINE: CHEMICAL	USEPA METHOD 3A	6.4	%		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001364.004 : 30/07/2024 Report No **Issue Date**

KE24-001364 JOE No **ULR No** TC704724100002127F

KER0000223431 **Report Control No**

NABL Accredited Tests

Analysis	Method	Result	Unit	•	ment/Limit /BPCB
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.38	%		
Temperature	IS 11255 Part 3:1985	127	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	18.43	m/s		
Flow rate	IS 11255 Part 3:1985	197259	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	13.2	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	115.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	221.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	0.7	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	56.30	mg/Nm3		100

Remark: All parameters are done at site except PM

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SATYA CHARAN MANNA

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****End of Report****

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001364.005 : 30/07/2024 Report No **Issue Date** KE24-001364 JOE No **ULR No** TC704724100002128F

KER0000223431 Report Control No

Customer Provided Information

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

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country

: 18/07/2024 11:40 - 12:20HRS Sampling Date Sampling Location TAIL ESP STACK (SINTER PLANT)

SO-IN-MUL-TE-176 Sampling Method

: TAIL ESP Stack Connected to

: DESTUSTING PROCESS **Emission Due to**

: 40 M

Height of Stack from

Ground Level

: 04 Port Hole Available : ESP

Pollution Control

Device

: 2.32M Diameter of Stack : MS Construction

Material of Stack

: Circular Type of Stack 36 M **Height of Sampling**

Point from GL

: Yes Platform & Ladder at

Stack

: FLUE GAS

Sample Description

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 Test Start/End Date

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001364.005 : 30/07/2024 Report No **Issue Date**

KE24-001364 JOE No **ULR No** TC704724100002128F

KER0000223431 **Report Control No**

NABL Accredited Tests

Analysis	vsis Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2	%		
Temperature	IS 11255 Part 3:1985	120	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	13.61	m/s		
Flow rate	IS 11255 Part 3:1985	151406	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	6.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	20.94	mg/Nm3		100

Remark: All parameters are done at site except PM

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SATYA CHARAN MANNA

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****End of Report****

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001364.006 : 30/07/2024 Report No **Issue Date**

KE24-001364 JOE No **ULR No** TC704724100002129F

KER0000223431 Report Control No

Customer Provided Information

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

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country

: 18/07/2024 12:50 - 13:30HRS Sampling Date . FLUX STACK (SINTER PLANT) Sampling Location

: 30.0 M

SO-IN-MUL-TE-176 Sampling Method . FLUX BAG FILTER Stack Connected to

Emission Due to : PROCESS ACTIVITY(LIME STONE, DOLOMITE PYROXINITE CRUSHING)

Height of Stack from

Port Hole Available

Ground Level

: 01

. BAG FILTER **Pollution Control**

Device

Diameter of Stack : 1.1M : MS

Construction **Material of Stack**

: Circular Type of Stack 17.0 M

Height of Sampling

Point from GL : Yes Platform & Ladder at

Stack

Sample Description : FLUE GAS

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 Test Start/End Date

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001364.006 : 30/07/2024 Report No **Issue Date**

KE24-001364 JOE No **ULR No** TC704724100002129F

KER0000223431 **Report Control No**

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	%		
Temperature	IS 11255 Part 3:1985	39	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	11.46	m/s		
Flow rate	IS 11255 Part 3:1985	36107	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.9	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	5.74	mg/Nm3		100

Remark: All parameters are done at site except PM

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704724100002130F JOE No : KE24-001364

Report Control No : KER0000223431

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 : 18/07/2024 14:30 - 15:10HRS

: 30.0 M

Sampling Location . RFP BAG FILTER STACK(SINTER PLANT)

Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : RFP BAG FILTER

Emission Due to PROCESS ACTIVITY (RAW MATERIAL PROCESS)

Height of Stack from

Ground Level

Port Hole Available . 01

Pollution Control : BAG FILTER

Device

Diameter of Stack : 1.4 M Construction : MS

Material of Stack

Type of Stack : Circular Height of Sampling : 17.5 M

Point from GL

Platform & Ladder at : Yes

Stack

Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001364.007 : 30/07/2024 Report No **Issue Date**

KE24-001364 JOE No **ULR No** TC704724100002130F

KER0000223431 **Report Control No**

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.04	%		
Temperature	IS 11255 Part 3:1985	42	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	12.07	m/s		
Flow rate	IS 11255 Part 3:1985	61058	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	92.98	mg/Nm3		100

Remark: All parameters are done at site except PM

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Authorized Signatory

SATYA CHARAN MANNA

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001364.008 : 30/07/2024 Report No **Issue Date**

KE24-001364 JOE No **ULR No** TC704724100002131F

KER0000223431 Report Control No

Customer Provided Information

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

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country

: 18/07/2024 16:50 - 17:30HRS Sampling Date : MBF-2 CAST HOUSE FES STACK Sampling Location

SO-IN-MUL-TE-176 Sampling Method . MBF-2 CAST HOUSE Stack Connected to

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

Height of Stack from

Port Hole Available

Ground Level

: 01

: 32.0 M

: BAG FILTER **Pollution Control**

Device

Diameter of Stack : 2.3M : MS Construction

Material of Stack

: Circular Type of Stack 19 M **Height of Sampling**

Point from GL

Platform & Ladder at

: Yes

Stack

Sample Description : FLUE GAS

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 Test Start/End Date

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001364.008 : 30/07/2024 Report No **Issue Date** KE24-001364

JOE No **ULR No** TC704724100002131F

NABL Accredited Tests

Report Control No

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2	%		
Temperature	IS 11255 Part 3:1985	40	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	8.03	m/s		
Flow rate	IS 11255 Part 3:1985	110314	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	5.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985	5.22	mg/Nm3		100

Remark: All parameters are done at site except PM

KER0000223431

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704724100002120F JOE No : KE24-001365

Report Control No : KER0000223388

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

 Sampling Date
 : 16/07/2024 15:35 to 16:10hrs

 Sampling Location
 : DG SET NO. 1 (1250 KVA)

 Stack Connected to
 : DG SET NO. 1 (1250 KVA)

: 19.5 M

Emission Due to . BURNING OF HSD

 Running Load
 : 670KVA

 Capacity
 : 1250KVA

 Fuel Used
 : HSD

Fuel Consumption : 120 LTR/HR

Height of Stack from

Ground Level

Port Hole Available ONE
Diameter of Stack 0.2M
Construction MS

Material of Stack

Type of Stack : Circular Height of Sampling : 12.5M

Point from GL

Platform & Ladder at

: Y

Stack

Sampling Method . SO IN MUL TE 176

Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Requirement/Limit

Analysis Method Result Unit

Min Max

NABL Group: Atmospheric Pollution Stack emission

DISCIPLINE: CHEMICAL

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001365.001 . 30/07/2024 Report No **Issue Date**

KE24-001365 **ULR No** TC704724100002120F JOE No

Report Control No KER0000223388

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	1.51	%		
Temperature	IS 11255 Part 3:1985	352	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	20.220	m/s		
Flow rate	IS 11255 Part 3:1985	1058	Nm3/Hrs		
Carbon Dioxide (CO2)	USEPA METHOD 3A	7.9	%		
Oxygen (O2)	USEPA (Method 3A)	11.6	%		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.20	%		1
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	8.00	mg/Nm3		
Particulate Matter (PM)	IS:11255 (Part-1&3):1985	19.53	mg/Nm3		150
Nitrogen Oxides	USEPA METHOD (7E)	368.0	mg/Nm3		

Remark: All parameters Analysed at site except PM.

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SATYA CHARAN MANNA

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 KE24-001365.002 30/07/2024 Report No **Issue Date**

KE24-001365 **ULR No** TC704724100002121F JOE No

KER0000223388 Report Control No

Customer Provided Information

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

Customer Name METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

. PASCHIM MEDINIPUR City

. 16/07/2024 16:15 to 16:50hrs Sampling Date . DG SET NO. 2(1250 KVA) Sampling Location . DG SET NO. 2(1250 KVA) Stack Connected to

. BURNING OF HSD **Emission Due to**

. 1250KVA Capacity : 700KVA Running Load : HSD **Fuel Used**

Fuel Consumption : 120LTR/HR : 19.5 M

Height of Stack from

Ground Level

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

Material of Stack

: Circular Type of Stack : 12.0M Height of Sampling

Point from GL

Platform & Ladder at

Stack

: SO IN MULTE 176 Sampling Method

: FLUE GAS **Sample Description**

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 **Test Start/End Date**

NABL Accredited Tests

Requirement/Limit **WBPCB** Unit **Analysis** Method Result

Max

Atmospheric Pollution Stack emission **NABL Group:**

DISCIPLINE: CHEMICAL

Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001365.002 . 30/07/2024 Report No **Issue Date**

KE24-001365 **ULR No** TC704724100002121F JOE No

KER0000223388 Report Control No

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	1.51	%		
Temperature	IS 11255 Part 3:1985	365	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	21.440	m/s		
Flow rate	IS 11255 Part 3:1985	1099	Nm3/Hrs		
Carbon Dioxide (CO2)	USEPA METHOD 3A	8.1	%		
Oxygen (O2)	USEPA (Method 3A)	11.4	%		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.20	%		1
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	11.00	mg/Nm3		
Particulate Matter (PM)	IS:11255 (Part-1&3):1985	15.78	mg/Nm3		150
Nitrogen Oxides	USEPA METHOD (7E)	379.0	mg/Nm3		

Remark: All parameters Analysed at site except PM.

Per pro SGS India Private Ltd

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SATYA CHARAN MANNA

****End of Report****

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704724100002122F JOE No : KE24-001365

Report Control No : KER0000223388

Customer Provided Information

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

Customer Name : TATA STEEL LIMITED

Customer Address : METALIKS DIVISION KHARAGPUR

SAMRAIPUR, GOKULPUR

City : PASCHIM MEDINIPUR

Sampling Date . 19/07/2024 14:50 to 15:30hrs

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

 Running Load
 : 400KVA

 Capacity
 : 600KVA

 Fuel Used
 : HSD

Fuel Consumption : 40-50 LTR/HR

Height of Stack from : 9.0M

Ground Level

Port Hole Available ONE
Diameter of Stack 0.15M
Construction MS

Material of Stack

Type of Stack : Circular Height of Sampling : 5.0M

Point from GL

Platform & Ladder at : Y

Stack

Sampling Method . SO IN MUL TE 176

Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Requirement/Limit

Analysis Method Result Unit

Unit

Min Max

NABL Group: Atmospheric Pollution Stack emission

DISCIPLINE: CHEMICAL

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001365.003 . 30/07/2024 Report No **Issue Date**

KE24-001365 **ULR No** TC704724100002122F JOE No

Report Control No KER0000223388

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	1.50	%		
Temperature	IS 11255 Part 3:1985	291	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	19.650	m/s		
Flow rate	IS 11255 Part 3:1985	641	Nm3/Hrs		
Carbon Dioxide (CO2)	USEPA METHOD 3A	6.8	%		
Oxygen (O2)	USEPA (Method 3A)	12.7	%		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.20	%		1
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	7.00	mg/Nm3		
Particulate Matter (PM)	IS:11255 (Part-1&3):1985	28.00	mg/Nm3		150
Nitrogen Oxides	USEPA METHOD (7E)	247.0	mg/Nm3		

Remark: All parameters Analysed at site except PM.

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Authorized Signatory

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 KE24-001365.004 30/07/2024 Report No **Issue Date**

KE24-001365 **ULR No** TC704724100002123F JOE No

KER0000223388 Report Control No

Customer Provided Information

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

Customer Name METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

. PASCHIM MEDINIPUR City

23/07/2024 16:30 to 17:10hrs Sampling Date

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

Emission Due to COKE OVEN WASTE HEAT & BFG

. 11.2MW Running Load : 15MW Capacity : BFG **Fuel Used**

Fuel Consumption : BFG 20000 NM3/M

: 40.0M Height of Stack from

Ground Level

Port Hole Available : 2.15M Diameter of Stack : MS Construction

Material of Stack

: Circular Type of Stack : 30M Height of Sampling

Point from GL

Platform & Ladder at

Stack

: SO IN MULTE 176 Sampling Method

: FLUE GAS **Sample Description**

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 **Test Start/End Date**

NABL Accredited Tests

Requirement/Limit **WBPCB** Unit **Analysis** Method Result

Max

Atmospheric Pollution Stack emission **NABL Group:**

DISCIPLINE: CHEMICAL

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001365.004 . 30/07/2024 Report No **Issue Date**

KE24-001365 **ULR No** TC704724100002123F JOE No

KER0000223388 Report Control No

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Moisture	IS 11255 Part 3:1985	2.96	%		
Temperature	IS 11255 Part 3:1985	159	°C		
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	12.120	m/s		
Flow rate	IS 11255 Part 3:1985	104296	Nm3/Hrs		
Carbon Dioxide (CO2)	USEPA METHOD 3A	5.8	%		
Oxygen (O2)	USEPA (Method 3A)	13.8	%		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.20	%		1
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	149.00	mg/Nm3		
Particulate Matter (PM)	IS:11255 (Part-1&3):1985	42.83	mg/Nm3		150
Nitrogen Oxides	USEPA METHOD (7E)	78.0	mg/Nm3		

Remark: All parameters Analysed at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE24-001358.001 30/07/2024 Report No **Issue Date**

KE24-001358 **ULR No** TC704724100002060F JOE No

KER0000223433 Report Control No

Customer Provided Information

: FLUE GAS Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name**

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

. PASCHIM MEDINIPUR City

Sampling Date 23/07/2024 11:15 -11:55HRS

Sampling Location : MAGNESIUM TREATMENT CONVERTER STACK (DIP-2)

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

Stack Connected to MAGNESIUM TREATMENT CONVERTER BAG FILTER

Emission Due to DEDUSTING PROCESS

Height of Stack from

: 36 M

Ground Level

: 24 M Height of Sampling

Point from GL

Port Hole Available

: 02

Pollution Control

: BAG FILTER AND CYCLONE SEPERATOR

Device

Diameter of Stack

: 1.1 M

Construction

: MS

Material of Stack

: Circular Type of Stack

: Yes Platform & Ladder at

Stack

. FLUE GAS **Sample Description**

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 **Test Start/End Date**

NABL Accredited Tests

Analysis		Method	Result	Unit	•	ment/Limit VBPCB
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxid	le (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		
Moisture Temperature		IS 11255 Part 3:1985 IS 11255 Part 3:1985	2.02 50	% °C		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001358.001 . 30/07/2024 Report No **Issue Date**

KE24-001358 **ULR No** TC704724100002060F JOE No

KER0000223433 **Report Control No**

NABL Accredited Tests

Analysis	Method	Result	Unit	•	ment/Limit /BPCB
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	9.96	m/s		
Flow rate	IS 11255 Part 3:1985	30328	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.20	%		
Particulate matter (PM)	IS 11255 (Part 01&3) : 1985 & By Calculation	5.0	mg/Nm3		50

Remark: All parameters analyzed at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 KE24-001358.002 30/07/2024 Report No **Issue Date**

KE24-001358 **ULR No** TC704724100002061F JOE No

KER0000223433 Report Control No

Customer Provided Information

: FLUE GAS Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name**

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

. PASCHIM MEDINIPUR City

Sampling Date 23/07/2024 12:20 -13:00HRS

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

: SO-IN-MUL-TE-176 Sampling Method Stack Connected to . ZINC COATING M/C FL-5 **Emission Due to DEDUSTING PROCESS**

: 36M Height of Stack from

Ground Level

: 26M

Height of Sampling

Point from GL 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

Platform & Ladder at

: Yes

Stack **Sample Description**

. FLUE GAS

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 **Test Start/End Date**

NABL Accredited Tests

Analysis		Method	Result	Unit	•	ment/Limit /BPCB
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxid	` '	USEPA METHOD 3A	<0.2	%		
DISCIPLINE:	CHEMICAL					
Moisture		IS 11255 Part 3:1985	2.06	%		
Temperature		IS 11255 Part 3:1985	42	°C		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001358.002 . 30/07/2024 Report No **Issue Date**

KE24-001358 **ULR No** TC704724100002061F JOE No

KER0000223433 **Report Control No**

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	5.76	m/s		
Flow rate	IS 11255 Part 3:1985	25198	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.9	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.20	%		
Particulate matter (PM)	IS 11255 (Part 01&3) : 1985 & By Calculation	5.8	mg/Nm3		50

Remark: All parameters analyzed at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704724100002062F JOE No : KE24-001358

Report Control No : KER0000223433

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

Sample Description . FLUE GAS

Sampling Date : 23/07/2024 13:05 -13:45HRS
Sampling Location : TRI GRINDING FL-5 STACK (DIP-2)

Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : TRI GRINDING FL-5
Emission Due to : DEDUSTING PROCESS

Height of Stack from

: 36.0 M

Ground Level

Height of Sampling : 26 M

Point from GL

Port Hole Available . 02

Pollution Control :

Device

: BAG FILTER

Diameter of Stack
Construction

ack : 0.9 M : MS

Material of Stack

Type of Stack : Circular

Platform & Ladder at

Stack

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	•	ment/Limit /BPCB
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxid	e (CO2)	USEPA METHOD 3A	<0.2	%		
DISCIPLINE:	CHEMICAL					
Moisture		IS 11255 Part 3:1985	1.8	%		
Temperature		IS 11255 Part 3:1985	39	°C		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001358.003 . 30/07/2024 Report No **Issue Date**

KE24-001358 **ULR No** TC704724100002062F JOE No

KER0000223433 **Report Control No**

NABL Accredited Tests

Analysis	Method I	Result	Unit	•	ment/Limit /BPCB
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	7.88	m/s		
Flow rate	IS 11255 Part 3:1985	16659	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.20	%		
Particulate matter (PM)	IS 11255 (Part 01&3) : 1985 & By Calculation	4.4	mg/Nm3		50

Remark: All parameters analyzed at site except PM.

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SATYA CHARAN MANNA

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 KE24-001358.004 30/07/2024 Report No **Issue Date**

KE24-001358 **ULR No** TC704724100002063F JOE No

KER0000223433 Report Control No

Customer Provided Information

: FLUE GAS Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name**

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

. PASCHIM MEDINIPUR City

Sampling Date 23/07/2024 14:30 - 15:10HRS

: ZINC COATING M/C FL-4 STACK (DIP-3) Sampling Location

: SO-IN-MUL-TE-176 Sampling Method . ZINC COATING M/C FL-4 Stack Connected to **Emission Due to DEDUSTING PROCESS**

: 36.0 M Height of Stack from

Ground Level

: 26 M Height of Sampling

Point from GL

: 02 Port Hole Available

: BAG FILTER **Pollution Control**

Device

Diameter of Stack : 1.65M : MS Construction

Material of Stack

: Circular Type of Stack : Yes

Platform & Ladder at

Stack

. FLUE GAS **Sample Description**

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 **Test Start/End Date**

NABL Accredited Tests

Analysis		Method Result		Unit	Requirem WB Unit	
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxid DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		
Moisture Temperature		IS 11255 Part 3:1985 IS 11255 Part 3:1985	2.13 43	% °C		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001358.004 . 30/07/2024 Report No **Issue Date**

KE24-001358 **ULR No** TC704724100002063F JOE No

KER0000223433 **Report Control No**

NABL Accredited Tests

Analysis	sis Method	Result	Unit	•	ment/Limit /BPCB
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	5.79	m/s		
Flow rate	IS 11255 Part 3:1985	40506	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.9	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.20	%		
Particulate matter (PM)	IS 11255 (Part 01&3) : 1985 & By Calculation	13.8	mg/Nm3		50

Remark: All parameters analyzed at site except PM.

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SATYA CHARAN MANNA

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 KE24-001358.005 30/07/2024 Report No **Issue Date**

KE24-001358 **ULR No** TC704724100002064F JOE No

KER0000223433 Report Control No

Customer Provided Information

: FLUE GAS Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name**

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

. PASCHIM MEDINIPUR City

Sampling Date 23/07/2024 15:20 - 16:00HRS

: TRI GRINDING FL-4 STACK (DIP-2) Sampling Location

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

Stack Connected to . TRI GRINDING FL-4 STACK (DIP-2)

Emission Due to DEDUSTING PROCESS

Height of Stack from

: 36.0 M

Ground Level

: 28 M Height of Sampling

Point from GL

: 02 Port Hole Available

Pollution Control

: BAG FILTER

Device

Diameter of Stack : 0.9M

: MS Construction

Material of Stack

: Circular Type of Stack : Yes

Platform & Ladder at

Stack

. FLUE GAS **Sample Description**

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 **Test Start/End Date**

NABL Accredited Tests

SGS India Pvt. Ltd.

Analysis	Method Result		Result	Unit	Requiren Wi Unit	
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxid	le (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		
Moisture Temperature		IS 11255 Part 3:1985 IS 11255 Part 3:1985	1.61 40	% °C		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001358.005 . 30/07/2024 Report No **Issue Date**

KE24-001358 **ULR No** TC704724100002064F JOE No

Report Control No KER0000223433

NABL Accredited Tests

Analysis	Method	Result	Unit	•	ment/Limit /BPCB
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	10.12	m/s		
Flow rate	IS 11255 Part 3:1985	21381	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.9	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.20	%		
Particulate matter (PM)	IS 11255 (Part 01&3) : 1985 & By Calculation	4.4	mg/Nm3		50

Remark: All parameters analyzed at site except PM.

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 KE24-001358.006 30/07/2024 Report No **Issue Date**

KE24-001358 **ULR No** TC704724100002065F JOE No

KER0000223433 Report Control No

Customer Provided Information

: FLUE GAS Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name**

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

· PASCHIM MEDINIPUR City

. 24/07/2024 12:00 - 12:40HRS Sampling Date

: CORE SHOP STACK (DIP -2) Sampling Location

: SO-IN-MUL-TE-176 Sampling Method Stack Connected to **CORE SHOP BAG FILTER Emission Due to DEDUSTING PROCESS**

: 36.0 M Height of Stack from

Ground Level

: 26 M Height of Sampling

Point from GL

: 02 Port Hole Available

: BAG FILTER & CYCLONE SEPERATOR **Pollution Control**

Device

Diameter of Stack : 0.9 M : MS Construction

Material of Stack

: Circular Type of Stack : Yes

Platform & Ladder at

Stack

. FLUE GAS **Sample Description**

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 **Test Start/End Date**

NABL Accredited Tests

Analysis		Method	Result	Unit	•	ment/Limit /BPCB
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxid DISCIPLINE:	le (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		
Moisture Temperature		IS 11255 Part 3:1985 IS 11255 Part 3:1985	2 39	% °C		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001358.006 . 30/07/2024 Report No **Issue Date**

KE24-001358 **ULR No** TC704724100002065F JOE No

Report Control No KER0000223433

NABL Accredited Tests

Analysis	sis 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	5.75	m/s		
Flow rate	IS 11255 Part 3:1985	12142	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.20	%		
Particulate matter (PM)	IS 11255 (Part 01&3) : 1985 & By Calculation	3.8	mg/Nm3		50

Remark: All parameters analyzed at site except PM.

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

Authorized Signatory

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 KE24-001358.007 30/07/2024 Report No **Issue Date**

KE24-001358 **ULR No** TC704724100002066F JOE No

KER0000223433 Report Control No

Customer Provided Information

: FLUE GAS Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name**

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

. PASCHIM MEDINIPUR City

Sampling Date . 24/07/2024 11:00 - 11:40HRS

: MOULD SHOP STACK (DIP-2) Sampling Location

: SO-IN-MUL-TE-176 Sampling Method Stack Connected to MOULD SHOP

Emission Due to DEDUSTING PROCESS

: 36.0 M Height of Stack from

Ground Level

: 26 M Height of Sampling

Point from GL

: 02 Port Hole Available

: BAG FILTER & CYCLONE SEPERATOR **Pollution Control**

Device

Diameter of Stack : 0.9M : MS

Construction

Material of Stack

: Circular Type of Stack : Yes

Platform & Ladder at

Stack

. FLUE GAS **Sample Description**

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 **Test Start/End Date**

NABL Accredited Tests

Analysis	sis Method Res		Result	Unit	Requirement/Limit WBPCB	
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxid DISCIPLINE:	e (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		
Moisture Temperature		IS 11255 Part 3:1985 IS 11255 Part 3:1985	1.87 40	% °C		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001358.007 . 30/07/2024 Report No **Issue Date**

KE24-001358 **ULR No** TC704724100002066F JOE No

KER0000223433 **Report Control No**

NABL Accredited Tests

Analysis	Method I	Result	Unit	•	ment/Limit /BPCB
				Min	Max
NABL Group: Atmospheric Pollution	Stack emission				
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	11935	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.20	%		
Particulate matter (PM)	IS 11255 (Part 01&3) : 1985 & By Calculation	4.1	mg/Nm3		50

Remark: All parameters analyzed at site except PM.

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

· KE24-001357.001 30/07/2024 Report No **Issue Date**

KE24-001357 **ULR No** TC704724100002057F JOE No

KER0000223382 Report Control No

Customer Provided Information

: FLUE GAS Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name**

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

· PASCHIM MEDINIPUR City

. 19/07/2024 15:50 -16:30HRS Sampling Date

: ZINC COATING M/C FL -3 STACK Sampling Location

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

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

Emission Due to DEDUSTING PROCESS

: 30 M Height of Stack from

Ground Level

: 24 M Height of Sampling

Point from GL

: 02

Port Hole Available

: BAG FILTER &CYCLONE SEPERATOR **Pollution Control**

Device Diameter of Stack

: 1.1M : MS Construction

Material of Stack

: Circular Type of Stack : Yes

Platform & Ladder at

Stack

. FLUE GAS **Sample Description**

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 26/07/2024 **Test Start/End Date**

NABL Accredited Tests

SGS India Pvt. Ltd.

Analysis		Method Result		Unit	•	ment/Limit /BPCB
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxid	e (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		
Moisture	CHEMICAL	IS 11255 Part 3:1985	2.04	%		
Temperature		IS 11255 Part 3:1985	45	°C		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001357.001 . 30/07/2024 Report No **Issue Date**

KE24-001357 **ULR No** TC704724100002057F JOE No

Report Control No KER0000223382

NABL Accredited Tests

Analysis	Method	Result	Unit	Requiren Unit	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Barometric Pressure	IS 11255 Part 3:1985	748	mm Hg		
Velocity	IS 11255 Part 3:1985	6.78	m/s		
Flow rate	IS 11255 Part 3:1985	6236	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.2	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	4.00	mg/Nm3		50

Remark: All parameters are done at site except PM

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 KE24-001357.002 30/07/2024 Report No **Issue Date**

KE24-001357 **ULR No** TC704724100002058F JOE No

KER0000223382 Report Control No

Customer Provided Information

: FLUE GAS Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name**

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

. PASCHIM MEDINIPUR City

Sampling Date 23/07/2024 10:20 -11:00HRS

: INDUCTION FURNACE STACK (DIP-2) Sampling Location

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

Stack Connected to INDUCTION FURNACE BAG FILTER

Emission Due to DEDUSTING PROCESS

: 36M Height of Stack from

Ground Level

: 24M

Point from GL

Height of Sampling

Port Hole Available

: 02

Pollution Control

: BAG FILTER & CYCLONE SEPERATOR

Device

Diameter of Stack

: 1.1M

Construction Material of Stack : MS

Type of Stack

: Circular : Yes

Platform & Ladder at

Stack

. FLUE GAS **Sample Description**

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 26/07/2024 **Test Start/End Date**

NABL Accredited Tests

Analysis		Method	Result	Unit	•	ment/Limit /BPCB
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxide	e (CO2) CHEMICAL	USEPA METHOD 3A	<0.2	%		
Moisture		IS 11255 Part 3:1985	2	%		
Temperature		IS 11255 Part 3:1985	55	°C		

Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001357.002 . 30/07/2024 Report No **Issue Date**

KE24-001357 **ULR No** TC704724100002058F JOE No

Report Control No KER0000223382

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	6.72	m/s		
Flow rate	IS 11255 Part 3:1985	20144	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	<1.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.2	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	5.14	mg/Nm3		50

Remark: All parameters are done at site except PM

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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Page 2 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 KE24-001357.003 30/07/2024 Report No **Issue Date**

KE24-001357 **ULR No** TC704724100002059F JOE No

KER0000223382 Report Control No

Customer Provided Information

: FLUE GAS Sample Described by Customer as

: TATA STEEL LIMITED **Customer Name**

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

. PASCHIM MEDINIPUR City

Sampling Date . 24/07/2024 12:50 -13:30HRS

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

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

Stack Connected to ANNEALING FURNACE -2 AIR CHIMNEY (DIP-2)

Emission Due to COMBUSTION OF BFG

Height of Stack from

Ground Level

: 36M

Height of Sampling

: 30M

Point from GL

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

Device

Diameter of Stack : 1.3M

: MS Construction

Material of Stack

: Circular Type of Stack : Yes

Platform & Ladder at

Stack

. FLUE GAS **Sample Description**

Lab Provided Information

FLUE GAS Sample Type 25/07/2024 Received

25/07/2024 - 26/07/2024 **Test Start/End Date**

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit WBPCB	
					Min	Max
NABL Group :	Atmospheric Pollution	Stack emission				
Carbon Dioxid DISCIPLINE:	le (CO2) CHEMICAL	USEPA METHOD 3A	11.3	%		
Moisture Temperature		IS 11255 Part 3:1985 IS 11255 Part 3:1985	2.52 94	% °C		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001357.003 . 30/07/2024 Report No **Issue Date**

KE24-001357 **ULR No** TC704724100002059F JOE No

Report Control No KER0000223382

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	8.17	m/s		
Flow rate	IS 11255 Part 3:1985	30397	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	8.9	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	26.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	16.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.2	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985	4.28	mg/Nm3		50

Remark: All parameters are done at site except PM

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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Page 2 of 2

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001355.001-A : 31/07/2024 Report No **Issue Date** KE24-001355 **ULR No** JOE No TC704724100002202F

KER0000223530 Report Control No

Customer Provided Information

: AMBIENT AIR QUALITY MONITORING Sample Described by Customer as

. TATA STEEL LIMITED **Customer Name**

METALIKS DIVISION KHARAGPUR **Customer Address**

SAMRAIPUR, GOKULPUR

PASCHIM MEDINIPUR City

. 721301 **Postal Code** : INDIA Country

: 15/07/2024 to 16/07/2024 Sampling Date Sampling Location **GOKULPUR VILLAGE** Sampling Method SO-IN-MUL-TE-176

. AMBIENT AIR QUALITY MONITORING Sample Description

Lab Provided Information

AMBIENT_AIR Sample Type 25/07/2024 Received

25/07/2024 - 30/07/2024 Test Start/End Date

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 Dioxi	de (SO2)	IS 5182 (Part 02): 2006	BDL(DL:4)	ug/m3	80	
Nitrogen Diox	ide (NO2)	IS 5182 (Part 06): 2006	8.1	ug/m3	80	
Particulate Ma	atter (PM10)	IS 5182 (Part 23): 2006	87.3	ug/m3	100	
Lead (as Pb)		IS:5182 (Part-22):2004	0.01	ug/m3	1.0	
Carbon Mono	xide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3	02	
Ammonia (NH	3)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3	400	
Benzo (a) Pyre	ene	USEPA 8270 C TO - 13A	<0.20	ng/m³	01 (Annual)	
Nickel as Ni		SO-IN-MUL-TE-075	9.8	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 : KE24-001355.001-B Issue Date : 31/07/2024

JOE No : KE24-001355

Report Control No : KER0000223530

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

Sampling Date : 15/07/2024 to 16/07/2024
Sampling Location : GOKULPUR VILLAGE
Sampling Method : SO-IN-MUL-TE-176

Sample Description . AMBIENT AIR QUALITY MONITORING

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS	
				Min	Max
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3		100
Arsenic as As	SO-IN-MUL-TE-075	<2.0	ng/m³		06(Annual)
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	21.5	ug/m3		60(24 hrs)

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

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SATYA CHARAN MANNA

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****End of Report****

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001355.002-A
 Issue Date
 : 31/07/2024

 ULR No
 : TC704724100002203F
 JOE No
 : KE24-001355

Report Control No : KER0000223530

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

Sampling Date : 15/07/2024 to 16/07/2024
Sampling Location : MAHESHPUR VILLAGE
Sampling Method : SO-IN-MUL-TE-176

Sample Description . AMBIENT AIR QUALITY MONITORING

Lab Provided Information

Sample Type : AMBIENT_AIR Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit NAAQMS	
					Min	Max
NABL Group :	Atmospheric Pollution	Ambient air				
Benzene DISCIPLINE:	CHEMICAL	SO-IN-EHS-TE-164	<2.00	ug/m3		05(Annual)
Sulphur Dioxi	311 <u>2</u> 371 <u>2</u>	IS 5182 (Part 02) : 2006	BDL(DL:4)	ug/m3		80
Nitrogen Diox	ide (NO2)	IS 5182 (Part 06) : 2006	8.9	ug/m3		80
Particulate Ma	atter (PM10)	IS 5182 (Part 23) : 2006	45.1	ug/m3		100
Lead (as Pb)		IS:5182 (Part-22):2004	<0.01	ug/m3		1.0
Carbon Mono	xide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH	3)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3		400
Benzo (a) Pyre	ene	USEPA 8270 C TO - 13A	<0.20	ng/m³		01 (Annual)
Nickel as Ni		SO-IN-MUL-TE-075	3.5	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 : KE24-001355.002-B Issue Date : 31/07/2024

JOE No : KE24-001355

Report Control No : KER0000223530

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

Sampling Date : 15/07/2024 to 16/07/2024
Sampling Location : MAHESHPUR VILLAGE
Sampling Method : SO-IN-MUL-TE-176

Sample Description . AMBIENT AIR QUALITY MONITORING

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS	
				Min	Max
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3		100
Arsenic as As	SO-IN-MUL-TE-075	<2.0	ng/m³		06(Annual)
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	23.8	ug/m3		60(24 hrs)

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

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001355.003-A
 Issue Date
 : 31/07/2024

 ULR No
 : TC704724100002204F
 JOE No
 : KE24-001355

Report Control No : KER0000223530

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

Sampling Date : 16/07/2024 to 17/07/2024
Sampling Location : NEAR GUEST HOUSE
Sampling Method : SO-IN-MUL-TE-176

Sample Description . AMBIENT AIR QUALITY MONITORING

Lab Provided Information

Sample Type : AMBIENT_AIR Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

SGS India Pvt. Ltd.

Analysis		Method	Result	Re Unit	Requirement/Limit NAAQMS	
				Mi	n Max	
NABL Group :	Atmospheric Pollution	Ambient air				
Benzene DISCIPLINE:	CHEMICAL	SO-IN-EHS-TE-164	<2.00	ug/m3	05(Annual)	
Sulphur Dioxi	de (SO2)	IS 5182 (Part 02) : 2006	BDL(DL:4)	ug/m3	80	
Nitrogen Diox	ide (NO2)	IS 5182 (Part 06) : 2006	9.1	ug/m3	80	
Particulate Ma	atter (PM10)	IS 5182 (Part 23) : 2006	86.8	ug/m3	100	
Lead (as Pb)		IS:5182 (Part-22):2004	0.13	ug/m3	1.0	
Carbon Mono	xide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3	02	
Ammonia (NH	3)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3	400	
Benzo (a) Pyre	ene	USEPA 8270 C TO - 13A	<0.20	ng/m³	01 (Annual)	
Nickel as Ni		SO-IN-MUL-TE-075	6.1	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 : KE24-001355.003-B | Issue Date : 31/07/2024

JOE No : KE24-001355

Report Control No : KER0000223530

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

Sampling Date : 16/07/2024 to 17/07/2024
Sampling Location : NEAR GUEST HOUSE
Sampling Method : SO-IN-MUL-TE-176

Sample Description . AMBIENT AIR QUALITY MONITORING

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS
			ſ	Min Max
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3	100
Arsenic as As	SO-IN-MUL-TE-075	2.7	ng/m³	06(Annual)
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	50.4	ug/m3	60(24 hrs)

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

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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TC-7047

Member of the SGS Group (SGS SA)

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001355.004-A
 Issue Date
 : 31/07/2024

 ULR No
 : TC704724100002205F
 JOE No
 : KE24-001355

Report Control No : KER0000223530

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

Sampling Date : 16/07/2024 to 17/07/2024
Sampling Location : NEAR DUCTURA HOUSE
Sampling Method : SO-IN-MUL-TE-176

Sample Description . AMBIENT AIR QUALITY MONITORING

Lab Provided Information

Sample Type : AMBIENT_AIR Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit NAAQMS	
					Min	Max
NABL Group :	Atmospheric Pollution	Ambient air				
Benzene	CUENNOAL	SO-IN-EHS-TE-164	<2.00	ug/m3		05(Annual)
DISCIPLINE:	CHEMICAL					
Sulphur Dioxi	de (SO2)	IS 5182 (Part 02): 2006	BDL(DL:4)	ug/m3		80
Nitrogen Diox	ide (NO2)	IS 5182 (Part 06) : 2006	9.0	ug/m3		80
Particulate Ma	atter (PM10)	IS 5182 (Part 23) : 2006	59.4	ug/m3		100
Lead (as Pb)		IS:5182 (Part-22):2004	0.02	ug/m3		1.0
Carbon Mono	xide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH	3)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3		400
Benzo (a) Pyre	ene	USEPA 8270 C TO - 13A	<0.20	ng/m³		01 (Annual)
Nickel as Ni		SO-IN-MUL-TE-075	3.8	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 : KE24-001355.004-B Issue Date : 31/07/2024

JOE No : KE24-001355

Report Control No : KER0000223530

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

Sampling Date : 16/07/2024 to 17/07/2024
Sampling Location : NEAR DUCTURA HOUSE
Sampling Method : SO-IN-MUL-TE-176

Sample Description . AMBIENT AIR QUALITY MONITORING

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit AAQMS
				Min	Max
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3		100
Arsenic as As	SO-IN-MUL-TE-075	<2.0	ng/m³		06(Annual)
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	15.5	ug/m3		60(24 hrs)

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

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001355.005-A Issue Date : 31/07/2024

ULR No : TC704724100002206F JOE No : KE24-001355

Report Control No : KER0000223530

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

Sampling Date : 17/07/2024 to 18/07/2024

Sampling Location : NEAR CPP-3
Sampling Method : SO-IN-MUL-TE-176

Sample Description . AMBIENT AIR QUALITY MONITORING

Lab Provided Information

Sample Type : AMBIENT_AIR Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit NAAQMS	
					Min	Max
NABL Group :	Atmospheric Pollution	Ambient air				
Benzene	CHEMICAL	SO-IN-EHS-TE-164	<2.00	ug/m3		05(Annual)
DISCIPLINE:	CHEMICAL					
Sulphur Dioxi	de (SO2)	IS 5182 (Part 02): 2006	BDL(DL:4)	ug/m3		80
Nitrogen Diox	ide (NO2)	IS 5182 (Part 06) : 2006	8.0	ug/m3		80
Particulate Ma	atter (PM10)	IS 5182 (Part 23) : 2006	58.6	ug/m3		100
Lead (as Pb)		IS:5182 (Part-22):2004	0.05	ug/m3		1.0
Carbon Mono	xide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH	3)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3		400
Benzo (a) Pyre		USEPA 8270 C TO - 13A	<0.20	ng/m³		01 (Annual)
Nickel as Ni		SO-IN-MUL-TE-075	4.7	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 : KE24-001355.005-B Issue Date : 31/07/2024

JOE No : KE24-001355

Report Control No : KER0000223530

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

Sampling Date : 17/07/2024 to 18/07/2024

Sampling Location : NEAR CPP-3
Sampling Method : SO-IN-MUL-TE-176

Sample Description . AMBIENT AIR QUALITY MONITORING

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	•	ment/Limit AAQMS
				Min	Max
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3		100
Arsenic as As	SO-IN-MUL-TE-075	<2.0	ng/m³		06(Annual)
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	23.8	ug/m3		60(24 hrs)

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

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SATYA CHARAN MANNA

Authorized Signatory

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TC-7047

Member of the SGS Group (SGS SA)

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001355.006-A
 Issue Date
 : 31/07/2024

 ULR No
 : TC704724100002207F
 JOE No
 : KE24-001355

Report Control No : KER0000223530

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

Sampling Date : 18/07/2024 to 19/07/2024
Sampling Location : NEAR RAILWAY SIDDING
Sampling Method : SO-IN-MUL-TE-176

Sample Description . AMBIENT AIR QUALITY MONITORING

Lab Provided Information

Sample Type : AMBIENT_AIR Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result		Requirement/Limit NAAQMS
				N	nin Max
NABL Group :	Atmospheric Pollution	Ambient air			
Benzene		SO-IN-EHS-TE-164	<2.00	ug/m3	05(Annual)
DISCIPLINE:	CHEMICAL				
Sulphur Dioxi	de (SO2)	IS 5182 (Part 02): 2006	BDL(DL:4)	ug/m3	80
Nitrogen Diox	ide (NO2)	IS 5182 (Part 06) : 2006	7.6	ug/m3	80
Particulate Ma	atter (PM10)	IS 5182 (Part 23) : 2006	43.0	ug/m3	100
Lead (as Pb)		IS:5182 (Part-22):2004	0.03	ug/m3	1.0
Carbon Mono	xide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3	02
Ammonia (NH	3)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3	400
Benzo (a) Pyre	ene	USEPA 8270 C TO - 13A	<0.20	ng/m³	01 (Annual)
Nickel as Ni		SO-IN-MUL-TE-075	2.9	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 : KE24-001355.006-B Issue Date : 31/07/2024

JOE No : KE24-001355

Report Control No : KER0000223530

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

Sampling Date : 18/07/2024 to 19/07/2024
Sampling Location : NEAR RAILWAY SIDDING
Sampling Method : SO-IN-MUL-TE-176

Sample Description AMBIENT AIR QUALITY MONITORING

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS
				Min Max
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3	100
Arsenic as As	SO-IN-MUL-TE-075	<2.0	ng/m³	06(Annual)
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	19.6	ug/m3	60(24 hrs)

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

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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TC-7047

Member of the SGS Group (SGS SA)

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001355.007-A
 Issue Date
 : 31/07/2024

 ULR No
 : TC704724100002208F
 JOE No
 : KE24-001355

Report Control No : KER0000223530

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 : 18/07/2024 to 19/07/2024
Sampling Location : NEAR DIP MATERIAL GATE

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

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

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 Dioxid	de (SO2)	IS 5182 (Part 02): 2006	BDL(DL:4)	ug/m3		80
Nitrogen Dioxi	ide (NO2)	IS 5182 (Part 06) : 2006	8.3	ug/m3		80
Particulate Ma	tter (PM10)	IS 5182 (Part 23) : 2006	54.4	ug/m3		100
Lead (as Pb)		IS:5182 (Part-22):2004	0.05	ug/m3		1.0
Carbon Monox	kide (CO)	EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3		02
Ammonia (NH	3)	SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3		400
Benzo (a) Pyre	ene	USEPA 8270 C TO - 13A	<0.20	ng/m³		01 (Annual)
Nickel as Ni		SO-IN-MUL-TE-075	4.7	ng/m³		20(Annual)

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

Page 1 of 2

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001355.007-B | Issue Date : 31/07/2024

JOE No : KE24-001355

Report Control No : KER0000223530

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 : 18/07/2024 to 19/07/2024
Sampling Location : NEAR DIP MATERIAL GATE

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

Lab Provided Information

Sample Type : AMBIENT_AIR
Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit NAAQMS
				Min Max
Ozone (O3)	SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3	100
Arsenic as As	SO-IN-MUL-TE-075	<2.0	ng/m³	06(Annual)
Particulate Matter (PM2.5)	SO-IN-MUL-TE-068	33.0	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
 : KE24-001354.001
 Issue Date
 : 31/07/2024

 ULR No
 : TC704724100002141F
 JOE No
 : KE24-001354

Report Control No : KER0000223504

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
 : 23/07/2024

Sampling Location . CPP-3 RESERVOIR TREATED WATER

Sampling Method : APHA 1060B
Sample Qty. Recd. : 3.5L APPROX.
Sample Description : EFFLUENT

Lab Provided Information

Sample Type : EFFLUENT Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit CPCB DIS. INLAND SURFACE WATER Min Max
NABL Group :	Pollution & Environmer	nt Waste Water (Efflue	nts/Sewage)		
DISCIPLINE:	CHEMICAL				
Total Suspended	l Solids	APHA 23RD EDN 2540 D	4.38	mg/L	100
рН		APHA 23RD EDN 4500 B	7.78		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	4.0	mg/L	30
COD	-	APHA 24th EDN: 5220 B	40.8	mg/L	250
Total Dissolved	Solids	APHA 23 RD EDN 2540 C	593.0	mg/L	

Remark: pH Analysed at site

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001354.001 : 31/07/2024 Report No **Issue Date**

KE24-001354 JOE No **ULR No** TC704724100002141F

KER0000223504 **Report Control No**

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TC-7047

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001354.005
 Issue Date
 : 31/07/2024

 ULR No
 : TC704724100002145F
 JOE No
 : KE24-001354

Report Control No : KER0000223504

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 : 23/07/2024
Sampling Location : ETP OUTLET(DI)
Sampling Method : APHA 1060B
Sample Qty. Recd. : 3.5L APPROX.
Sample Description : EFFLUENT

Lab Provided Information

Sample Type : EFFLUENT Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit CPCB DIS. INLAND SURFACE WATER Min Max
NABL Group :	Pollution & Environmen	t Waste Water (Efflu	ents/Sewage)		
DISCIPLINE:	CHEMICAL				
Total Suspende	ed Solids	APHA 23RD EDN 2540 D	<2.00	mg/L	100
рН		APHA 23RD EDN 4500 B	8.82		5.5-9.0
Oil & Grease		APHA 23RD EDN 5520 B	<2.0	mg/L	10
BOD at 27 °C fo	or 3 days	IS 3025 (Part 44) : 1993	2.9	mg/L	30
COD		APHA 24th EDN: 5220 B	30.6	mg/L	250
Total Dissolved	d Solids	APHA 23 RD EDN 2540 C	1709.0	mg/L	

Remark: pH Analysed at site

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







SAMPLE DRAWN BY SGS INDIA PVT. LTD.

: KE24-001354.005 Report No **Issue Date**

KE24-001354 JOE No **ULR No** TC704724100002145F

KER0000223504 **Report Control No**

Per pro SGS India Private Ltd

: 31/07/2024

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001354.006
 Issue Date
 : 31/07/2024

 ULR No
 : TC704724100002146F
 JOE No
 : KE24-001354

Report Control No : KER0000223504

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
 : 23/07/2024

Sampling Location : ETP OUTLET 450 KLD TREATED

Sampling Method : APHA 1060B
Sample Qty. Recd. : 3.5L APPROX.
Sample Description : EFFLUENT

Lab Provided Information

Sample Type : EFFLUENT Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 30/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit CPCB DIS. INLAND SURFACE WATER Min Max
NABL Group :	Pollution & Environn	nent Waste Water (Effluer	nts/Sewage)		
DISCIPLINE:	CHEMICAL				
Total Suspend	led Solids	APHA 23RD EDN 2540 D	<2.00	mg/L	100
pН		APHA 23RD EDN 4500 B	6.02		5.5-9.0
Oil & Grease		APHA 23RD EDN 5520 B	<2.0	mg/L	10
BOD at 27 °C f	or 3 days	IS 3025 (Part 44) : 1993	<2.0	mg/L	30
COD		APHA 24th EDN: 5220 B	20.4	mg/L	250
Total Dissolve	d Solids	APHA 23 RD EDN 2540 C	78.0	mg/L	

Remark: pH Analysed at site

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: KE24-001354.006 : 31/07/2024 Report No **Issue Date**

KE24-001354 JOE No **ULR No** TC704724100002146F

KER0000223504 **Report Control No**

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West Bengal Pollution Control Board

Haldia Laboratory

Block-05 at 40 Flats Complex, Adjacent to Priyambada Housing Complex, Basudevpur, P.O. Khanjanchak, Haldia, Purba Medinipore - 721602

Station: INSIDE TATA METALIKS, KHARAGPUR River Basin: Kasai_Haldi CPCB Station Code: 1943

Human Activities: DrinkingWeather: ClearWater Body: Ground Water at TATA Metaliks KharagpurFrequency Of Monitoring: HalfyearlyUse Based Class: AApproximate Depth(Bottom/Table): 300.00 m

Color & Intensity: Clear Odour: None Visible effluent discharge: None

Water Quality						
Parameter	Test Result	Unit				
BOD	0.55	mg/l				
Conductivity	570.8	μs/cm				
Fecal Coliform	Nil	MPN/100ml				
Nitrate-N	BDL	mg/l				
рН	7.30	Unit				
Temperature(Water)	31	°C				
Total Coliform	Nil	MPN/100ml				
Boron	BDL	mg/l				
Calcium	89.44	mg/l				
Chloride	19.14	mg/l				
COD	3.09	mg/l				
Fluoride	0.18	mg/l				
Magnesium	10.45	mg/l				
Phenolpthalein Alkanity	Nil	mg/l				
Phosphate-P	BDL	mg/l				
Potassium	4.7	mg/l				
Sodium	29.0	mg/l				
Sulphate	17.69	mg/l				
Total Alkalinity	300.00	mg/l				
Total Dissolved Solids(TDS)	268.00	mg/l				
Total Fixed Solids(TFS)	240.00	mg/l				
Total Hardness as CaCo3	266.60	mg/l				
Total Suspended Solids(TSS)	6.00	mg/l				
Turbidity	2.50	NTU				
Arsenic	BDL	mg/l				
Cadmium	BDL	mg/l				
Chromium Total	BDL	mg/l				
Copper	BDL	mg/l				
Iron	0.63	mg/l				
Lead	BDL	mg/l				
Mercury	BDL	mg/l				
Nickel	BDL	mg/l				
Zinc	0.23	mg/l				
а-ВНС	NT	ppb				
a-Endosulphan	NT	ppb				
Aldrin	NT	ppb				
Anilophos	NT	ppb				
b-Endosulphan	NT	ppb				
Chlorpyriphos	NT	ppb				
Dieldrin	BDL	ppb				
д-ВНС	NT	ppb				
Malathion	BDL	ppb				
Methyl Parathion	BDL	ppb				
o,p-DDT	NT	ppb				
p,p-DDT	BDL	ppb				
Ammonia-N	BDL	mg/l				





Annexure-V



TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001367.001
 Issue Date
 : 27/07/2024

 ULR No
 : TC704724100002069F
 JOE No
 : KE24-001367

Report Control No : KER0000223258

Customer Provided Information

Sample Described by Customer as : AMBIENT NOISE

Customer Name : TATA STEEL LIMITED

Customer Address : Vill-Mahespur, P.O.Kharagpur-Samraipur

Dist-Paschim Midnapore

 Postal Code
 : 721301

 Country
 : INDIA

 Sampling Date
 : 17/07/2024

Sampling Location : NEAR GUEST HOUSE
Sampling Method : SO-IN-MUL-TE-176
Sample Description : AMBIENT NOISE

Lab Provided Information

Sample Type : AMBIENT NOISE
Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 26/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
			Min	Max		
NABL Group :	Atmospheric Pollution	Ambient Noise Le	evels (Excluding vibration)			
DISCIPLINE:	CHEMICAL					
Noise (Day Tin	ne)	SO-IN-MUL-TE-049	57.20	dB(A) Leq		75
Noise (Night Time)		SO-IN-MUL-TE-049	42.20	dB(A) Leq		70

Remark: ANALYSED AT SITE.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001367.002 Issue Date : 27/07/2024

ULR No : TC704724100002070F JOE No : KE24-001367

Report Control No : KER0000223258

Customer Provided Information

Sample Described by Customer as : AMBIENT NOISE

Customer Name : TATA STEEL LIMITED

Customer Address : Vill-Mahespur, P.O.Kharagpur-Samraipur

Dist-Paschim Midnapore

 Postal Code
 : 721301

 Country
 : INDIA

 Sampling Date
 : 16/07/2024

Sampling Location : NEAR DUCTURA HOUSE : SO-IN-MUL-TE-176 : AMBIENT NOISE

Lab Provided Information

Sample Type : AMBIENT NOISE
Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 26/07/2024

NABL Accredited Tests

Analysis		Method	Result Unit	Unit	Requirement/Limit CPCB INDUSTRIAL AREA		
					Min	Max	
NABL Group :	Atmospheric Pollution	Ambient Noise Le	evels (Excluding vibration)				
DISCIPLINE:	CHEMICAL						
Noise (Day Tim	ne)	SO-IN-MUL-TE-049	65.80	dB(A) Leq		75	
Noise (Night Time)		SO-IN-MUL-TE-049	43.90	dB(A) Leq		70	

Remark: ANALYSED AT SITE.

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SGS India Pvt. Ltd.







SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704724100002071F JOE No : KE24-001367

Report Control No : KER0000223258

Customer Provided Information

Sample Described by Customer as : AMBIENT NOISE

Customer Name : TATA STEEL LIMITED

Customer Address : Vill-Mahespur, P.O.Kharagpur-Samraipur

Dist-Paschim Midnapore

Postal Code : 721301
Country : INDIA
Sampling Date : 18/07/2024
Sampling Location : NEAR CPP-3
Sampling Method : SO-IN-MUL-TE-176
Sample Description : AMBIENT NOISE

Lab Provided Information

Sample Type : AMBIENT NOISE
Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 26/07/2024

NABL Accredited Tests

Analysis		Method Result Unit	Unit	Requirement/Limit CPCB INDUSTRIAL AREA		
					Min	Max
NABL Group :	Atmospheric Pollution	Ambient Noise Le	evels (Excluding vibration)			
DISCIPLINE:	CHEMICAL					
Noise (Day Tim	ne)	SO-IN-MUL-TE-049	61.40	dB(A) Leq		75
Noise (Night Time)		SO-IN-MUL-TE-049 44.80		dB(A) Leq		70

Remark: ANALYSED AT SITE.

SGS India Pvt. Ltd.

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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excent in full without prior written approval of the Company No decision rule is applied, when comparing the measurement result(s) with the applicable limit(s) according to the specification in the respective standard or as shared by the customer.







SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-001367.004 Issue Date : 27/07/2024

ULR No : TC704724100002072F JOE No : KE24-001367

Report Control No : KER0000223258

Customer Provided Information

Sample Described by Customer as : AMBIENT NOISE

Customer Name : TATA STEEL LIMITED

Customer Address : Vill-Mahespur, P.O.Kharagpur-Samraipur

Dist-Paschim Midnapore

 Postal Code
 : 721301

 Country
 : INDIA

 Sampling Date
 : 19/07/2024

Sampling Location : NEAR RAILWAY SIDDING
Sampling Method : SO-IN-MUL-TE-176
Sample Description : AMBIENT NOISE

Lab Provided Information

Sample Type : AMBIENT NOISE
Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 26/07/2024

NABL Accredited Tests

Analysis		Method	Result Unit	Unit	Requirement/Limit CPCB INDUSTRIAL AREA		
					Min	Max	
NABL Group :	Atmospheric Pollution	Ambient Noise Le	evels (Excluding vibration)				
DISCIPLINE:	CHEMICAL						
Noise (Day Tim	ne)	SO-IN-MUL-TE-049	57.30	dB(A) Leq		75	
Noise (Night Time)		SO-IN-MUL-TE-049 39.20		dB(A) Leq		70	

Remark: ANALYSED AT SITE.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

 Report No
 : KE24-001367.005
 Issue Date
 : 27/07/2024

 ULR No
 : TC704724100002073F
 JOE No
 : KE24-001367

Report Control No : KER0000223258

Customer Provided Information

Sample Described by Customer as : AMBIENT NOISE

Customer Name : TATA STEEL LIMITED

Customer Address : Vill-Mahespur, P.O.Kharagpur-Samraipur

Dist-Paschim Midnapore

 Postal Code
 : 721301

 Country
 : INDIA

 Sampling Date
 : 19/07/2024

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 : 25/07/2024

Test Start/End Date : 25/07/2024 - 26/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL AREA	
					Min	Max
NABL Group :	Atmospheric Pollution	Ambient Noise Lo	evels (Excluding vibration)			
DISCIPLINE:	CHEMICAL					
Noise (Day Tin	ne)	SO-IN-MUL-TE-049	73.40	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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For any feedback or complaint please write to us at https://sgssurveys.qualtrics.com/jfe/form/SV_eP7WY1kg3NyF4vI

SGS India Pvt. Ltd.







SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704724100002067F **JOE No** : KE24-001366

Report Control No : KER0000223269

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

Sampling Date . 15/07/2024

Sampling Location : GOKULPUR VILLAGE
Sampling Method : SO-IN-MUL-TE-176
Sample Description : AMBIENT NOISE

Lab Provided Information

Sample Type : AMBIENT NOISE
Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 26/07/2024

NABL Accredited Tests

Analysis		Method Res	Result	Unit	Requirement/Limit CPCB RESIDENTIAL AREA	
					Min	Max
NABL Group :	Atmospheric Pollution	Ambient Noise Le	evels (Excluding vibration)			
DISCIPLINE:	CHEMICAL					
Noise (Day Tin	•	SO-IN-MUL-TE-049	52.90	dB(A) Leq		55
Noise (Night T	Noise (Night Time)		35.80	dB(A) Leq		45

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

ULR No : TC704724100002068F JOE No : KE24-001366

Report Control No : KER0000223269

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

Sampling Date . 15/07/2024

Sampling Location : MAHESHPUR VILLAGE : SO-IN-MUL-TE-176 : AMBIENT NOISE

Lab Provided Information

Sample Type : AMBIENT NOISE
Received : 25/07/2024

Test Start/End Date : 25/07/2024 - 26/07/2024

NABL Accredited Tests

Analysis		Method	Result	Unit	Requirement/Limit CPCB RESIDENTIAL AREA	
					Min	Max
NABL Group :	Atmospheric Pollution	Ambient Noise Le	evels (Excluding vibration)			
DISCIPLINE:	CHEMICAL					
Noise (Day Tin	•	SO-IN-MUL-TE-049	50.30	dB(A) Leq		55
Noise (Night T	Noise (Night Time)		35.30	dB(A) Leq		45

Remark: ANALYSED AT SITE.

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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 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).
- Speed Optimization in DIP (LDP) de-dusting system
- Reduce energy consumption and improving power factor by installing Harmonic Filters in DIP-1 LTPCC
- Zero Flaring in MBF by installation of Root Blowers
- Cooling Fan speed optimization Sinter Plant
- Steam transfer to DIP-2 for Pipe Curing, thereby increasing Power Generation at CPP4.
- 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
- Induction Furnace Power optimization through efficient operational controls

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.
- CBM injection trial in MBF-1
- 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.

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
- Flux Rate Optimization Sinter Plant
- 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.
- BF Grade Pellet (MgO upto 1.5%) consumption @ MBF.

Liquid Fuel Saving initiatives

- Tower Crane installation is in progress in weigh bridge to reduce excavator engagement time & HSD consumption
- Steam transfer to DIP-2 for Pipe Curing, thereby increasing Power Generation at CPP4.

PRE- EMPLOYMENT AND PERIODICAL OCCUPATIONAL HEALTH CHECK-UP REPORTS (April -2024 to September-2024)

Time Period	IME Employees & CL	Periodical Occupational Health Check-Up of Employees		Periodical Occupational Health Check-Up of Service Provider's Employees		Remarks
	TSMD Emp	PI+SF+project	SDP	LDP	PROJECT	
April'24 to Sept'24	2155 (Emp=1, Regular CL= 2154)		NIL	NIL	Nil	Total IME= 2155 and POHC= Nil

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

Year	Fund Allocated (Lakh)	Job Details	Project Budget (Lakh)	Status
2010	195.04	Maheshpur (Muslimpara)- Drinking Water & Sanitation Project, Road & Drainage system	95	Completed
2019	186.04	Tentuliya (Kenduapal)- Drinking Water & Sanitation Project, Drainage system	56.04	Completed
		Maheshpur (Raipara)- Training Centre	35	Completed
2020	50	Mollachak- Drinking Water & Sanitation Project, Drainage system	50	Completed
2021	160	Samraipur- Solar Powered Drinking Water Project, Construction of internal road, toilets, Drain & Waste water management system, renovation of Pond and School	100	Completed
		Risha - Solar powered drinking water project, Toilet blocks, bathroom and drainage work	60	Completed
		Renovation of schools in nearby village(Chunpara)	5	Completed
2022	158.96	Kenduapal- Revival of Drinking Water Project, Sanitation Project & Drainage system	70	Completed
		Keshpal- Sanitation Project	12	Completed
		Uttar Narayanpur- Drinking Water & Sanitation Project, Drainage system	71.96	Completed
Total	555		555	



Major Highlights - Sept.'24





Mini Job Fair hosted at MSC Midnapore, on 13th September. 18 employers from varied domains participated and 132 learners interviewed from the alumni and current batches.

More than 80 learners from different domains got selected.



Under the Pond Based Livelihood Project supported by NABARD, 2 trainings organised on Scientific Fishery & Duckery where 72 and 35 farmers participated, respectively.



Mr. Soumen Das, BDO Kharagpur Block graced the Foundational Learning & Numeracy (FLN) training program and motivated the volunteers



TSMD employees volunteering for sapling distribution and plantation in the village



Adolescents' awareness sessions under DIYA Project











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Stories across locations...KGP



Under the Pond Based Livelihood Project supported by NABARD organised on Scientific Fishery & **Wheker**i/2 and 35 farmers particl respectively.



Mini Job Fair hosted at MSC
Midnapore, on 13th September. Total
18 employers from varied domains
participated and 132 learners
interviewed from the alumni and
current batch.
More than 80 learners from different
domains got selected.



TSMD employees volunteering for sapling distribution an the village



MoU signing of TSF and YIF for Education and Digital Literacy Project



Adolescents' awareness sessions under DIYA Project

TATA STEEL FOUNDATION



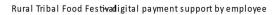




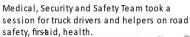




Employee Volunteering at Girls RBC Centre









Medical team taking a session on health awareness for adolescent girls in High School



Employees and family members visiting O Age Home

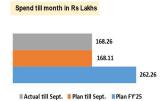
TATA STEEL FOUNDATION

Strategy 1.2: Universalizing secondary education through a revitalized public education system.



KPI	FoM	UoM	FY25 Plan		- Actual till Sept -	Progress%	Remarks	Plan till Oct-24
· · ·		30		24	24			
Lives impacted	М	No. lives	20,512	20,512	20,512	100%		20,512
Children covered	M	No. of children	20,411	20,411	20,411	100%		20,411
Percentage of Girls covered			8	ä		0%		
Children out of school	M	No. of children	=	-	83	0%		9.
Out of school children bought back to school	М	No. of children	67	67	150		Additional children identified during drive and brough back to schools.	67
Children transitioning between level (PrePrimary to Primary, Primary to Middle, Middle to Secondary) completing secondary education	Q	% of children transitioned out of total enrolled	100%	100%	100%	100%		100%
Gram panchayats declaring themselves CLFZ	Q	No. of gram panchayats	4	-	141	0%		-
External funds leveraged for schools	Н	Rs. (Lakhs)	-	-	141	0%		
Blocks being saturated	Н	No. of Blocks	Ĭ	1	1	100%		1
Blocks declared CLFZ	Α	No. of Blocks	ä	-		0%		
Local governance bodies driving the schools education successfully as per performance matrix	Α	No. of SMC	40	-	:-	0%		
Improvement in the learning (Baseline Vs Endline)								

FoM: Frequency of measurement, UoM: Unit of Measurement # M: Monthly , Q: Quarterly , HYebalf, A: Annually



Highlights

 Mr. SoumerDas, BDO Kharagpur Block graced the Foundational Learning & Numeracy (FLN) trainin program and motivated the volunteers



Not ok (<90%)

Ok (90%)

Details

TATA STEEL



ENVIRONMENTAL POLICY

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

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

Date: November 1, 2017

TV Narendran
CEO & Managing Director

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.	MBF#2 Fume extraction system & stack installation for Cast House	445.0
2.	Installing 25 TPH coke drying unit at RMHS#2 bunkers	900.0
3.	Installation of Syn gas plant for use in Sinter making process in place of Blast Furnace Gas	350.0
4.	Hiring of truck mounted fog canon system to control fugitive dust for Raw material Stock	16.06
5.	Cyclone separator assembly for the de-dusting unit at Ductile Iron Pipe plant	25.0
6.	CMC of CAAQMS	31.8
7.	CMC & Calibration of CEMS	80.0
8.	Installation of grid connected battery less 1.8 MW solar power system at DIP-2 unit	700.0
9.	Installation of Sonic Soot Blowing technology for increasing the collecting efficiency in Head ESP at Sinter Plant	4.4
10.	Enhancing Bag Filter Performance of RFP by Installation of Sonic Soot Blowing Technology	1.9
11.	Tail ESP upgradation by HFTR installation for performance enhancement and emission control	78.0
12.	Construction of ZLD (Zero Liquid discharge) network	200.0
13.	Installation of Tri-grinding FL-2 de-dusting system	44.0
14.	Environmental monitoring through accredited agency	10.8
15.	Electrical Energy Conservation initiatives through power generation through microturbine with PRDS unit in CPP-2	180.0
16.	Install sinter cooler WHRB (9TPH) 10.5 Kg/cm2 to generate & supply stream for DIP -2 curing therefore save BFG & generate 1.6 MW power- Under construction	700.0
17.	Hiring of Water tanker for water spraying on main road from Gokulpur village to Maheshpur Vill and inside plant premises to mitigate air pollution and dust control.	7.0
18.	Green belt augmentation (4080 nos. of saplings) inside plant & for plantation at nearby community (1846 nos. of saplings)	6.0
19.	Wind shelter fencing is constructed near Iron ore yard & horizontal deployment	5.0
	Installation of Fanless & finless cooling tower (under construction)	150.0
21.	Installation of 4 Nos. dust monitor for Pig Iron division Stack.	22.2
22.	Acoustic enclosure installed for Pinning Machine to reduce Sound level	9.2
23.	RO plant (Cap-30m3/Hr) installation will be done for Ductile Iron Pipe unit	38.0
24.	IoT Based Smart Ultrasonic Water Flow Meters Installation	26.0
25.	Installation of micro turbine with pressure reducing system	210.0
26.	Upgradation of Induced Draft (ID) fan at tail side of Electrostatic Precipitator (ESP) in Sinter Plant	74.0