



Ref No. TSLMD/ENV/24-05/19

Date: 27/05/2024

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)

Dear Sir,

Please find enclosed the Six Monthly Compliance report (October'23 to March'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 Bandyopadhyay
Vice President (Safety, Environment, O&M PI Division)

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
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TATA STEEL LIMITED

Half Yearly EC Compliance Report of Expansion of Hot Metal from 0.5 to 0.75 MTPA, DI Pipe from 0.3 to 0.5 MTPA and 0.1 MTPA casting & fittings by M/s Tata Steel Limited, Metaliks Division (Formerly M/s Tata Metaliks Limited) at village Gokulpur, Paschim Medinipur District, West Bengal vide letter no. F.No. J-11011/377/2013-IA.II(I) dated 28.01.2019 & further amendment dated: 27.01.2021 for the period Oct'23 to Mar'24

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 30 th May 2008 as amended from time to time; S.O. 3305 (E) dated 7 th 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 .

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iii.	The project proponent shall install Continuous Ambient Air Quality monitoring for monitoring of common/ criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120°each), covering upwind and downwind directions.	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 six-monthly 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.

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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 30 th May 2008; S.O. 3305 (E) as amended from time to time; S.O. 3305 (E) dated 7 th 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) .

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	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 m ³ /day capacity is in operation & treated water is being used at cooling tower of CPP#2. Zero Effluent Discharge concept has been considered in the design stage of the expansion project.

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

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

V. Energy Conservation measures:

S.N.	Conditions	Compliance status
i.	The project proponent shall provide waste heat recovery system on the DRI Kilns.	Not applicable because Tata Steel Metaliks Division is not having DRI Kilns operation.
ii.	The dolochar generated shall be used for power generation.	Not Applicable because Tata Steel Metaliks Division is not having DRI Kilns & Dolochar.
iii.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, streetlights, parking around project area and maintain the same regularly.	1 MWp roof top solar power plant at DIP-1 & two other solar power systems of 10 KWp & 17.8 KWp capacity have been installed and under operation. Solar streetlights have been installed for internal road. Additional 1.8 MWp roof top solar power plant installation is under advance stage of completion. A solar water heater of 1000 litres per day has been installed at canteen roof top.
iv.	Provide LED lights in their offices and residential areas.	LED lights have been provided in most of the offices & plant site and will be installed in all newly build offices in future.

VI. Waste Management:

S.N.	Conditions	Compliance status
i.	Used refractories shall be recycled as far as possible.	Used refractories are used for paving purpose at MBF area.
ii.	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	Not applicable because of no Fly Ash generation in the plant.
iii.	The waste oil, grease and other hazardous waste shall be disposed of as per Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.	Used oil & other hazardous waste is stored and disposed of through authorized agency as per regulatory requirement i.e. Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.
iv.	Kitchen waste shall be composted or converted to biogas for further use.	Bio gas plant of 150 Kg/d capacity is in operation by treating the kitchen waste. The gas is used for cooking purpose at plant canteen.

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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 9300 nos. saplings inside the plant & 15500 nos. of saplings at nearby community during FY2023-2024. Every year plantation is done in available space. The different species planted are Polyalthia longifolia, Casuarina aquisetifolia, Alstonia scholaris, Tecoma stans, Azadirachta 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. Incentivization 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 pre-employment health checkup is enclosed as Annexure -VI (b).

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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 1 st 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 Limited, Metaliks Division (Formerly Tata Metaliks Limited) has a Sustainability Policy & Integrated Management System Policy, which includes Environmental Policy. Tata Steel Environmental Policy followed by Metaliks division are 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.

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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 , NO _x (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 six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest &	Has been complied.

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	Climate Change at environment clearance 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. TML/ENV/23-09/27 dated: 26.09.2023 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.	Will be complied.
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)	Noted for compliance.

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	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.	
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 : KE24-000158.001
 ULR No : TC704724100000214F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 17/01/2024
 Sampling Location : NEAR PIG IRON YARD
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	186.55	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	5.5	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	14.7	ug/m3		6000

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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For any feedback or complaint please write to us at feedback.mlkolkata@sgs.com.

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.001-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 17/01/2024
Sampling Location : NEAR PIG IRON YARD
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	559.27	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.002
 ULR No : TC704724100000215F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 17/01/2024
 Sampling Location : BETWEEN SPCM 1 & 2 AREA
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	829.40	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	BDL(DL:4)	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	10.7	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.002-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 17/01/2024
Sampling Location : BETWEEN SPCM 1 & 2 AREA
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	1652.04	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.003
 ULR No : TC704724100000216F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 17/01/2024
 Sampling Location : NEAR CAST HOUSE -1
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	420.50	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	7.5	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	16.9	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.003-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 17/01/2024
Sampling Location : NEAR CAST HOUSE -1
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	1450.63	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.004
 ULR No : TC704724100000217F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 17/01/2024
 Sampling Location : NEAR SCRAP YARD
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	90.71	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	8.6	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	8.9	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.004-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 17/01/2024
Sampling Location : NEAR SCRAP YARD
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	182.15	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.005
 ULR No : TC704724100000218F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 17/01/2024
 Sampling Location : NEAR CAST HOUSE 2
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	749.84	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	5.9	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	7.1	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.005-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 17/01/2024
Sampling Location : NEAR CAST HOUSE 2
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	1845.79	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.006
 ULR No : TC704724100000219F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 17/01/2024
 Sampling Location : NEAR NEW OXYGEN PLANT (ELLENBARRIE)
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	188.20	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	7.1	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	18.3	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.006-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 17/01/2024
Sampling Location : NEAR NEW OXYGEN PLANT (ELLENBARRIE)
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	874.26	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.007
 ULR No : TC704724100000220F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 18/01/2024
 Sampling Location : NEAR TAIL ESP
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	455.24	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	BDL(DL:4)	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	12.0	ug/m3		6000

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****End of Report****

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.007-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 18/01/2024
Sampling Location : NEAR TAIL ESP
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	1578.60	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.008
 ULR No : TC704724100000221F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 18/01/2024
 Sampling Location : NEAR IRON ORE YARD
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	296.92	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.7	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	13.8	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.008-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 18/01/2024
Sampling Location : NEAR IRON ORE YARD
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	771.88	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.009
 ULR No : TC704724100000222F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 18/01/2024
 Sampling Location : NEAR COAL YARD
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	253.98	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.3	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	12.0	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.009-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 18/01/2024
Sampling Location : NEAR COAL YARD
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	378.56	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.010
 ULR No : TC704724100000223F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 18/01/2024
 Sampling Location : NEAR HEAD ESP
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	133.84	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	5.1	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	8.9	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.010-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 18/01/2024
Sampling Location : NEAR HEAD ESP
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	356.71	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.011
ULR No : TC704724100000224F
Report Control No : KER0000215646

Issue Date : 30/01/2024
JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 18/01/2024
Sampling Location : NEAR SINTER BUILDING
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	211.66	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	5.5	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	7.1	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.011-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 18/01/2024
Sampling Location : NEAR SINTER BUILDING
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	450.76	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.012
ULR No : TC704724100000225F
Report Control No : KER0000215646

Issue Date : 30/01/2024
JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 18/01/2024
Sampling Location : NEAR RMHS 1
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	99.86	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	6.3	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	10.7	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.012-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 18/01/2024
Sampling Location : NEAR RMHS 1
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	485.06	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.013
 ULR No : TC704724100000226F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 19/01/2024
 Sampling Location : NEAR RMHS 2
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	585.23	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	7.1	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	11.6	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.013-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 19/01/2024
Sampling Location : NEAR RMHS 2
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	2058.90	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.014
 ULR No : TC704724100000227F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 19/01/2024
 Sampling Location : DI PLANT DISPATCH YARD
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	349.71	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	5.9	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	12.5	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.014-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 19/01/2024
Sampling Location : DI PLANT DISPATCH YARD
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	752.56	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.015
 ULR No : TC704724100000228F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 19/01/2024
 Sampling Location : NEAR ZINC COATING FL-01
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	767.03	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	6.7	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	10.7	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.015-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 19/01/2024
Sampling Location : NEAR ZINC COATING FL-01
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	1693.79	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.016
 ULR No : TC704724100000229F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 19/01/2024
 Sampling Location : NEAR INDUCTION FURNACE & MAGNESIUM CONVERTOR AREA DIP-1
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	383.90	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	6.3	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	12.9	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.016-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED

Customer Address : Vill.-Mahespur - PO- Samraipur

: Dist- Paschim Midnapore

Postal Code : 721301

Country : INDIA

Sampling Date : 19/01/2024

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

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

Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE

Received : 25/01/2024

Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	1134.38	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.017
 ULR No : TC704724100000230F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 19/01/2024
 Sampling Location : NEAR ZINC COATING FL-3
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	459.70	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	6.7	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	11.1	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.017-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 19/01/2024
Sampling Location : NEAR ZINC COATING FL-3
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	1903.46	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.018
 ULR No : TC704724100000231F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 19/01/2024
 Sampling Location : NEAR BITUMENT COATING FL-1
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	272.48	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	5.9	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	12.5	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.018-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 19/01/2024
Sampling Location : NEAR BITUMENT COATING FL-1
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	525.27	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.019
 ULR No : TC704724100000232F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 20/01/2024
 Sampling Location : NEAR CORE SHOP (DIP-1)
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	292.81	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	5.1	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	12.0	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.019-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 20/01/2024
Sampling Location : NEAR CORE SHOP (DIP-1)
Sampling Method : SO-IN-MUL-TE-176
Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	566.21	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.020
 ULR No : TC704724100000233F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 20/01/2024
 Sampling Location : NEAR LADDLE PRE HEATING AREA
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	445.65	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.3	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	11.1	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.020-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED

Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore

Postal Code : 721301

Country : INDIA

Sampling Date : 20/01/2024

Sampling Location : NEAR LADDLE PRE HEATING AREA

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

Sample Description : WORKZONE AIR

Lab Provided Information

Sample Type : WORKZONE

Received : 25/01/2024

Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	1620.88	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.021
ULR No : TC704724100000234F
Report Control No : KER0000215646

Issue Date : 30/01/2024
JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 20/01/2024
Sampling Location : NEAR EXTERNAL COATING FL-3
Sample Description : WORKZONE AIR
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	81.72	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	7.1	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	12.5	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.021-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 20/01/2024
Sampling Location : NEAR EXTERNAL COATING FL-3
Sample Description : WORKZONE AIR
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	437.10	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.022
ULR No : TC704724100000235F
Report Control No : KER0000215646

Issue Date : 30/01/2024
JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Location : NEAR CCM AREA (DIP 1)
Sample Description : WORKZONE AIR
Sampling Date : 20/01/2024
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	613.53	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	5.1	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	14.3	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.022-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Location : NEAR CCM AREA (DIP 1)
Sample Description : WORKZONE AIR
Sampling Date : 20/01/2024
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	1457.11	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.023
ULR No : TC704724100000236F
Report Control No : KER0000215646

Issue Date : 30/01/2024
JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR
Sampling Date : 20/01/2024
Sampling Location : NEAR CORE SHOP (DIP-2)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	337.84	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	6.7	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	12.9	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.023-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR
Sampling Date : 20/01/2024
Sampling Location : NEAR CORE SHOP (DIP-2)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	871.49	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.024
 ULR No : TC704724100000237F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sample Description : WORKZONE AIR
 Sampling Date : 20/01/2024
 Sampling Location : NEAR BITUMEN EXTERNAL COATING FL-4 (DIP-2)
 Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	371.67	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.7	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	13.8	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.024-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED

Customer Address : Vill.-Mahespur - PO- Samraipur

: Dist- Paschim Midnapore

Postal Code : 721301

Country : INDIA

Sample Description : WORKZONE AIR

Sampling Date : 20/01/2024

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

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

Lab Provided Information

Sample Type : WORKZONE

Received : 25/01/2024

Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	846.88	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.025
 ULR No : TC704724100000238F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sample Description : WORKZONE AIR
 Sampling Date : 22/01/2024
 Sampling Location : NEAR ZINC COATING FL-5 (DIP-2)
 Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	372.22	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	6.7	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	12.5	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.025-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED

Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore

Postal Code : 721301

Country : INDIA

Sample Description : WORKZONE AIR

Sampling Date : 22/01/2024

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

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

Lab Provided Information

Sample Type : WORKZONE

Received : 25/01/2024

Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	921.27	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.026
ULR No : TC704724100000239F
Report Control No : KER0000215646

Issue Date : 30/01/2024
JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR
Sampling Date : 22/01/2024
Sampling Location : NEAR ZINC COATING FL-4 & 5 (DIP-2)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	210.51	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	BDL(DL:4)	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	10.7	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.026-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR
Sampling Date : 22/01/2024
Sampling Location : NEAR ZINC COATING FL-4 & 5 (DIP-2)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	817.63	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.027
 ULR No : TC704724100000240F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sample Description : WORKZONE AIR
 Sampling Date : 22/01/2024
 Sampling Location : NEAR CCM AREA DIP-2
 Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	433.97	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	5.1	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	14.3	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.027-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR
Sampling Date : 22/01/2024
Sampling Location : NEAR CCM AREA DIP-2
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	660.20	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.028
ULR No : TC704724100000241F
Report Control No : KER0000215646

Issue Date : 30/01/2024
JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR
Sampling Date : 22/01/2024
Sampling Location : NEAR ZINC COATING FL4 (DIP-2)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	410.42	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	5.9	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	12.0	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.028-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR
Sampling Date : 22/01/2024
Sampling Location : NEAR ZINC COATING FL4 (DIP-2)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	1212.63	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.029
 ULR No : TC704724100000242F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sample Description : WORKZONE AIR
 Sampling Date : 22/01/2024
 Sampling Location : NEAR CPP 4
 Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	247.13	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.7	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	17.4	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.029-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR
Sampling Date : 22/01/2024
Sampling Location : NEAR CPP 4
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	638.52	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.030
 ULR No : TC704724100000243F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sample Description : WORKZONE AIR
 Sampling Date : 23/01/2024
 Sampling Location : NEAR MANESIUM CONVERTOR AREA (DIP-2)
 Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	367.85	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.0	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	12.8	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.030-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED

Customer Address : Vill.-Mahespur - PO- Samraipur

: Dist- Paschim Midnapore

Postal Code : 721301

Country : INDIA

Sample Description : WORKZONE AIR

Sampling Date : 23/01/2024

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

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

Lab Provided Information

Sample Type : WORKZONE

Received : 25/01/2024

Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	1979.47	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.031
ULR No : TC704724100000244F
Report Control No : KER0000215646

Issue Date : 30/01/2024
JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR
Sampling Date : 23/01/2024
Sampling Location : FL1 & FL2 AREA (SINTER PLANT)
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	688.78	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	BDL(DL:4)	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	15.7	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.031-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED

Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore

Postal Code : 721301

Country : INDIA

Sample Description : WORKZONE AIR

Sampling Date : 23/01/2024

Sampling Location : FL1 & FL2 AREA (SINTER PLANT)

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

Lab Provided Information

Sample Type : WORKZONE

Received : 25/01/2024

Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	2344.86	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.032
ULR No : TC704724100000245F
Report Control No : KER0000215646

Issue Date : 30/01/2024
JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR
Sampling Date : 23/01/2024
Sampling Method : SO-IN-MUL-TE-176
Sampling Location : FL-5 RFP AREA SINTER PLANT

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE:	CHEMICAL				
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	5.7	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	18.5	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.032-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR
Sampling Date : 23/01/2024
Sampling Method : SO-IN-MUL-TE-176
Sampling Location : FL-5 RFP AREA SINTER PLANT

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	1444.12	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	4994.32	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.033
 ULR No : TC704724100000246F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sample Description : WORKZONE AIR
 Sampling Date : 24/01/2024
 Sampling Method : SO-IN-MUL-TE-176
 Sampling Location : FL 3 TOP AREA SINTER PLANT

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	974.16	ug/m3		5000
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.7	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	11.8	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.033-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR
Sampling Date : 24/01/2024
Sampling Method : SO-IN-MUL-TE-176
Sampling Location : FL 3 TOP AREA SINTER PLANT

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	4081.15	ug/m3		10000

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.034
 ULR No : TC704724100000247F
 Report Control No : KER0000215646

Issue Date : 30/01/2024
 JOE No : KE24-000158

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sample Description : WORKZONE AIR
 Sampling Date : 24/01/2024
 Sampling Method : SO-IN-MUL-TE-176
 Sampling Location : FLUX SCREEN AREA (SINTER PLANT)

Lab Provided Information

Sample Type : WORKZONE
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
NABL Group :					
DISCIPLINE: CHEMICAL					
Sulphur Dioxide (SO2)	IS 5182 (Part 02) : 2006	4.2	ug/m3		5000
Nitrogen Dioxide (NO2)	IS 5182 (Part 06) : 2006	14.9	ug/m3		6000

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000158.034-B

Issue Date : 30/01/2024

JOE No : KE24-000158

Report Control No : KER0000215646

Customer Provided Information

Sample Described by Customer as : WORKZONE AIR

Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
: Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sample Description : WORKZONE AIR
Sampling Date : 24/01/2024
Sampling Method : SO-IN-MUL-TE-176
Sampling Location : FLUX SCREEN AREA (SINTER PLANT)

Lab Provided Information

Sample Type : WORKZONE
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

Non-Accredited tests

Analysis	Method	Result	Unit	Requirement/Limit FACTORY ACT 1948	
				Min	Max
Respirable Suspended Particulate Matter (RSPM)	IS:5182 (Part-23):2006	1490.30	ug/m3		5000
Suspended Particulate Matter (SPM)	IS:5182 (Part-4):Reaff 2005	5971.05	ug/m3		10000

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

Month	Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	Mar'24	Limit
PM₁₀ (µg/m³)	67.8	56.4	74.6	78.0	86.7	82.5	100
PM_{2.5} (µg/m³)	22.5	18.0	39.2	40.5	46.4	42.3	60
SO₂ (µg/m³)	8.7	15.0	9.5	17.8	20.4	22.0	80
NO₂ (µg/m³)	10.6	22.4	17.8	22.0	18.5	32.1	80
CO (mg/m³)	0.79	1.3	0.88	0.74	1.1	0.69	2
O₃ (µg/m³)	29.6	35.0	45.7	39.3	43.7	37.6	180

Stack Emission (CEMS) Monthly Average Report

Pig Iron Division						Parameter-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)
Oct-23	8.06	4.25	6.94	..	19.80	37.15	46.10	15.30	20.00	10.36
Nov-23	6.70	3.70	13.90	40.40	24.60	48.50	53.23	17.40	33.70	8.90
Dec-23	10.95	4.15	11.78	29.21	18.40	33.33	45.05	18.22	24.32	7.46
Jan-24	5.90	4.83	22.20	48.33	24.09	38.57	41.50	23.01	10.00	3.30
Feb-24	5.30	3.30	11.90	36.60	23.70	14.40	56.20	13.90	11.10	8.50
Mar-24	6.80	2.60	7.00	28.80	20.10	10.70	48.40	18.70	4.30	4.90

[illegible]

Ductile Iron Pipe Division

Parameter- Particulate Matter (PM)

Month	Magnesium Converter (mg/Nm³)	Zinc Coating FL-1 (DN- 80-400) (mg/Nm³)	Barrel and Socket grinders (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)
Oct-23	6.50	48.20	1.90	Shutdown	4.20	2.20	3.30	16.10	14.80
Nov-23	4.70	5.20	2.00	Shutdown	4.30	4.80	3.50	18.80	17.00
Dec-23	11.00	6.20	1.40	Shutdown	4.10	5.40	6.70	16.50	22.00
Jan-24	6.80	3.60	2.02	Shutdown	1.40	5.20	7.10	18.60	23.80
Feb-24	10.70	2.00	2.50	Shutdown	1.60	5.50	4.50	17.70	28.11
Mar-24	9.50	1.70	2.40	Shutdown	1.00	3.99	4.00	15.70	36.67

[illegible]



TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000178.001
ULR No : TC704724100000161F
Report Control No : KER0000215537

Issue Date : 30/01/2024
JOE No : KE24-000178

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 17/01/2024 14:20 - 15:10HRS
Sampling Location : FES (FUME EXTRACTION SYSTEM) STACK
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : FES (FUME EXTRACTION SYSTEM)
Emission Due to : EXTRACTION OF CAST HOUSE (MBF# 1) FUMES
Height of Stack from Ground Level : 43.6 M
Port Hole Available : 02
Pollution Control : --
Device :
Diameter of Stack : 2.0 M
Construction : MS
Material of Stack :
Type of Stack : Circular
Height of Sampling : 38.5M
Point from GL :
Platform & Ladder at Stack : Yes
Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

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

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Report No : KE24-000178.001
ULR No : TC704724100000161F
Report Control No : KER0000215537

Issue Date : 30/01/2024
JOE No : KE24-000178

NABL Accredited Tests

				Requirement/Limit WBPCB	
Analysis	Method	Result	Unit	Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
DISCIPLINE:	CHEMICAL				
Moisture	IS 11255 Part 3:1985	1.98	%		
Temperature	IS 11255 Part 3:1985	40.2	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	11.17	m/s		
Flow rate	IS 11255 Part 3:1985	117567	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	3.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	10.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985 (Reaff.2003)	14.28	mg/Nm3		100

Remark : All parameters are done at site except PM

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****End of Report****

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000178.002
ULR No : TC704724100000162F
Report Control No : KER0000215537

Issue Date : 30/01/2024
JOE No : KE24-000178

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 17/01/2024 17:00 - 17:50HRS
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 Stack : Yes
Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000178.002
 ULR No : TC704724100000162F
 Report Control No : KER0000215537

Issue Date : 30/01/2024
 JOE No : KE24-000178

NABL Accredited Tests

				Requirement/Limit	
Analysis	Method	Result	Unit	WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
DISCIPLINE:	CHEMICAL				
Moisture	IS 11255 Part 3:1985	1.74	%		
Temperature	IS 11255 Part 3:1985	32	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	10.71	m/s		
Flow rate	IS 11255 Part 3:1985	153405	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)	5.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985 (Reaff.2003)	7.24	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 : KE24-000178.003
ULR No : TC704724100000163F
Report Control No : KER0000215537

Issue Date : 30/01/2024
JOE No : KE24-000178

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 18/01/2024 11:00 - 11:40HRS
Sampling Location : SINTER STORAGE BIN (RMHS#2)
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : SINTER STORAGE BIN (RMHS#2)
Emission Due to : PROCESS ACTIVITY
Height of Stack from Ground Level : 30M
Port Hole Available : 02
Pollution Control : BAG FILTER
Device :
Diameter of Stack : 1.1M
Construction : MS
Material of Stack :
Type of Stack : Circular
Height of Sampling : 25M
Point from GL :
Platform & Ladder at Stack : Yes
Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000178.003
ULR No : TC704724100000163F
Report Control No : KER0000215537

Issue Date : 30/01/2024
JOE No : KE24-000178

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	1.97	%			
Temperature		IS 11255 Part 3:1985	34	°C			
Barometric Pressure		IS 11255 Part 3:1985	758	mm Hg			
Velocity		IS 11255 Part 3:1985	10.60	m/s			
Flow rate		IS 11255 Part 3:1985	34419	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)	5.0	mg/Nm3			
Carbon Monoxide (CO)		USEPA 1994 10B	<0.1	%			
Particulate Matter (PM)		IS:11255 (Part-1):1985 (Reaff.2003)	6.98	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 : KE24-000178.004
ULR No : TC704724100000164F
Report Control No : KER0000215537

Issue Date : 30/01/2024
JOE No : KE24-000178

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 19/01/2024 10:20 - 11:10HRS
Sampling Location : HEAD ESP STACK(SINTER PLANT)
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : HEAD ESP
Emission Due to : COMBUSTION O BFG (SINTER PRODUCTION)
Height of Stack from Ground Level : 45 M
Port Hole Available : 4
Pollution Control : ESP
Device :
Diameter of Stack : 2.3 M
Construction : MS
Material of Stack :
Type of Stack : Circular
Height of Sampling : 40.0 M
Point from GL :
Platform & Ladder at Stack : Yes
Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Carbon Dioxide (CO2)	USEPA METHOD 3A	7.8	%		

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 ULR No : TC704724100000164F
 Report Control No : KER0000215537

Issue Date : 30/01/2024
 JOE No : KE24-000178

NABL Accredited Tests

				Requirement/Limit WBPCB	
Analysis	Method	Result	Unit	Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
DISCIPLINE:	CHEMICAL				
Moisture	IS 11255 Part 3:1985	2.32	%		
Temperature	IS 11255 Part 3:1985	132	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	18.78	m/s		
Flow rate	IS 11255 Part 3:1985	201335	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	14.7	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	122.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	186.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	0.8	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985 (Reaff.2003)	54.03	mg/Nm3		100

Remark : All parameters are done at site except PM

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ULR No : TC704724100000165F
Report Control No : KER0000215537

Issue Date : 30/01/2024
JOE No : KE24-000178

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 19/01/2024 11:30 - 12:20HRS
Sampling Location : TAIL ESP STACK (SINTER PLANT)
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : TAIL ESP
Emission Due to : DESTUSTING PROCESS
Height of Stack from Ground Level : 40 M
Port Hole Available : 04
Pollution Control : ESP
Device :
Diameter of Stack : 2.32M
Construction : MS
Material of Stack :
Type of Stack : Circular
Height of Sampling : 36 M
Point from GL :
Platform & Ladder at Stack : Yes
Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000178.005
 ULR No : TC704724100000165F
 Report Control No : KER0000215537

Issue Date : 30/01/2024
 JOE No : KE24-000178

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	2.18	%		
Temperature	IS 11255 Part 3:1985	72	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	12.61	m/s		
Flow rate	IS 11255 Part 3:1985	191950	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)	7.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985 (Reaff.2003)	24.74	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 : KE24-000178.006
ULR No : TC704724100000166F
Report Control No : KER0000215537

Issue Date : 30/01/2024
JOE No : KE24-000178

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 19/01/2024 13:00 - 13:45HRS
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 : 30.0 M
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 Stack : Yes
Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000178.006
 ULR No : TC704724100000166F
 Report Control No : KER0000215537

Issue Date : 30/01/2024
 JOE No : KE24-000178

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	2	%		
Temperature	IS 11255 Part 3:1985	32	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	11.01	m/s		
Flow rate	IS 11255 Part 3:1985	58340	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 (Reaff.2003)	75.77	mg/Nm3		100

Remark : All parameters are done at site except PM

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000178.007
ULR No : TC704724100000167F
Report Control No : KER0000215537

Issue Date : 30/01/2024
JOE No : KE24-000178

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 19/01/2024 16:20 - 17:55
Sampling Location : FLUX STACK (SINTER PLANT)
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : FLUX BAG FILTER
Emission Due to : PROCESS ACTIVITY(LIME STONE, DOLOMITE PYROXINITE CRUSHING)
Height of Stack from Ground Level : 30.0 M
Port Hole Available : 01
Pollution Control : BAG FILTER
Device :
Diameter of Stack : 1.1M
Construction : MS
Material of Stack :
Type of Stack : Circular
Height of Sampling : 17.0 M
Point from GL :
Platform & Ladder at Stack : Yes
Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000178.007
 ULR No : TC704724100000167F
 Report Control No : KER0000215537

Issue Date : 30/01/2024
 JOE No : KE24-000178

NABL Accredited Tests

				Requirement/Limit	
Analysis	Method	Result	Unit	WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
DISCIPLINE:	CHEMICAL				
Moisture	IS 11255 Part 3:1985	2.18	%		
Temperature	IS 11255 Part 3:1985	31	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	11.14	m/s		
Flow rate	IS 11255 Part 3:1985	36438	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)	7.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		
Particulate Matter (PM)	IS:11255 (Part-1):1985 (Reaff.2003)	5.58	mg/Nm3		100

Remark : All parameters are done at site except PM

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000175.001
ULR No : TC704724100000152F
Report Control No : KER0000215544

Issue Date : 30/01/2024
JOE No : KE24-000175

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 17/01/2024 12:40 - 13:30HRS
Sampling Location : MBF-1(STOVE) STACK
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : MBF-1(STOVE)
Emission Due to : COMBUSTION OF BFG
Height of Stack from Ground Level : 45 M
Port Hole Available : 02
Diameter of Stack : 2.0 M
Construction : MS
Material of Stack : Circular
Type of Stack : 36.2 M
Height of Sampling Point from GL : Yes
Platform & Ladder at Stack : Yes
Fuel Used : BFG(BLAST FURNACE GAS)

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

Analysis				Requirement/Limit WBPCB	
				Min	Max
Method	Result	Unit			
NABL Group : Atmospheric Pollution	Stack emission				
Carbon Dioxide (CO2)	USEPA METHOD 3A	25.2	%		
DISCIPLINE: CHEMICAL					
Moisture	IS 11255 Part 3:1985	3.79	%		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000175.001
 ULR No : TC704724100000152F
 Report Control No : KER0000215544

Issue Date : 30/01/2024
 JOE No : KE24-000175

NABL Accredited Tests

				Requirement/Limit WBPCB	
Analysis	Method	Result	Unit	Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Temperature	IS 11255 Part 3:1985	157	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	12.98	m/s		
Flow rate	IS 11255 Part 3:1985	97596	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	4.4	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	39.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	16.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	0.8	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985 (Reaff.2003)	4.63	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 : KE24-000175.002
ULR No : TC704724100000153F
Report Control No : KER0000215544

Issue Date : 30/01/2024
JOE No : KE24-000175

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 18/01/2024 12:00 TO 12:45HRS
Sampling Location : MBF#2 STOVE STACK
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : MBF#2 STOVE STACK
Emission Due to : COMBUSTION OF BFG
Height of Stack from Ground Level : 45M
Port Hole Available : 02
Pollution Control : NIL
Device :
Diameter of Stack : 2.0 M
Construction : MS
Material of Stack :
Type of Stack : Circular
Height of Sampling : 36.2M
Point from GL :
Platform & Ladder at Stack : Yes
Fuel Used : BAG BLAST FURNACE GAS

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Carbon Dioxide (CO2)	USEPA METHOD 3A	27.0	%		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000175.002
 ULR No : TC704724100000153F
 Report Control No : KER0000215544

Issue Date : 30/01/2024
 JOE No : KE24-000175

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	3.34	%			
Temperature		IS 11255 Part 3:1985	160	°C			
Barometric Pressure		IS 11255 Part 3:1985	758	mm Hg			
Velocity		IS 11255 Part 3:1985	11.22	m/s			
Flow rate		IS 11255 Part 3:1985	84156	Nm3/Hrs			
Oxygen (O2)		USEPA (Method 3A)	2.1	%			
Sulphur Dioxide (SO2)		USEPA METHOD 6 C	37.00	mg/Nm3			
Nitrogen Oxides		USEPA METHOD (7E)	16.0	mg/Nm3			
Carbon Monoxide (CO)		USEPA 1994 10B	0.5	%			
Particulate Matter (PM)		IS:11255 (Part-1):1985 (Reaff.2003)	4.44	mg/Nm3			
				100			

Remark : All parameters are done at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000175.003
ULR No : TC704724100000154F
Report Control No : KER0000215544

Issue Date : 30/01/2024
JOE No : KE24-000175

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 23/01/2024 11:40 - 12:20HRS
Sampling Location : MAGNESIUM CONVERTOR & INDUCTION FURNACE STACK (DIP-1)
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : MAGNESIUM CONVERTOR & INDUCTION FURNACE BAG FILTER
Emission Due to : DEDUSTING PROCESS
Height of Stack from Ground Level : 30 M
Port Hole Available : 02
Pollution Control : BAG FILTER
Device :
Diameter of Stack : 0.7M
Construction : MS
Material of Stack :
Type of Stack : Circular
Height of Sampling : 20M
Point from GL :
Platform & Ladder at Stack : Yes
Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000175.003
 ULR No : TC704724100000154F
 Report Control No : KER0000215544

Issue Date : 30/01/2024
 JOE No : KE24-000175

NABL Accredited Tests

				Requirement/Limit	
Analysis	Method	Result	Unit	WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
DISCIPLINE:	CHEMICAL				
Moisture	IS 11255 Part 3:1985	1.93	%		
Temperature	IS 11255 Part 3:1985	43	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	6.69	m/s		
Flow rate	IS 11255 Part 3:1985	8550	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 (Reaff.2003)	4.26	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 : KE24-000175.004
ULR No : TC704724100000155F
Report Control No : KER0000215544

Issue Date : 30/01/2024
JOE No : KE24-000175

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 23/01/2024 12:30 - 13:05HRS
Sampling Location : BARREL AND SOCKET GRINDING FL-1 STACK
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : BARREL AND SOCKET GRINDING FL-1 STACK
Emission Due to : DEDUSTING PROCESS
Height of Stack from Ground Level : 30 M
Port Hole Available : 2
Pollution Control : BAG FILTER
Device :
Diameter of Stack : 0.9M
Construction : MS
Material of Stack :
Type of Stack : Circular
Height of Sampling : 22.0 M
Point from GL :
Platform & Ladder at Stack : Yes
Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000175.004
ULR No : TC704724100000155F
Report Control No : KER0000215544

Issue Date : 30/01/2024
JOE No : KE24-000175

NABL Accredited Tests

				Requirement/Limit WBPCB	
Analysis	Method	Result	Unit	Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
DISCIPLINE:	CHEMICAL				
Moisture	IS 11255 Part 3:1985	1.9	%		
Temperature	IS 11255 Part 3:1985	35	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	6.94	m/s		
Flow rate	IS 11255 Part 3:1985	15052	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 (Reaff.2003)	4.28	mg/Nm3		100

Remark : All parameters are done at site except PM.

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000175.005
ULR No : TC704724100000156F
Report Control No : KER0000215544

Issue Date : 30/01/2024
JOE No : KE24-000175

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 23/01/2024 13:20 - 13:55HRS
Sampling Location : ZINC COATING M/C FL 1 STACK
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : ZINC COATING M/C FL 1 BAG FILTER
Emission Due to : DEDUSTING PROCESS
Height of Stack from Ground Level : 30 M
Port Hole Available : 01
Pollution Control : BAG FILTER
Device :
Diameter of Stack : 0.9M
Construction : MS
Material of Stack :
Type of Stack : Circular
Height of Sampling : 24M
Point from GL :
Platform & Ladder at Stack : Yes
Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000175.005
 ULR No : TC704724100000156F
 Report Control No : KER0000215544

Issue Date : 30/01/2024
 JOE No : KE24-000175

NABL Accredited Tests

				Requirement/Limit WBPCB	
Analysis	Method	Result	Unit	Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
DISCIPLINE:	CHEMICAL				
Moisture	IS 11255 Part 3:1985	2.07	%		
Temperature	IS 11255 Part 3:1985	37	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	6.73	m/s		
Flow rate	IS 11255 Part 3:1985	14468	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 (Reaff.2003)	4.35	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 : KE24-000175.006
ULR No : TC704724100000157F
Report Control No : KER0000215544

Issue Date : 30/01/2024
JOE No : KE24-000175

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 24/01/2024 9:50 - 10:30HRS
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 Ground Level : 30.0 M
Port Hole Available : 02
Pollution Control : BAG FILTER
Device :
Diameter of Stack : 0.6 M
Construction : MS
Material of Stack :
Type of Stack : Circular
Height of Sampling : 22 M
Point from GL :
Platform & Ladder at Stack : Yes
Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000175.006
 ULR No : TC704724100000157F
 Report Control No : KER0000215544

Issue Date : 30/01/2024
 JOE No : KE24-000175

NABL Accredited Tests

				Requirement/Limit WBPCB	
Analysis	Method	Result	Unit	Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
DISCIPLINE:	CHEMICAL				
Moisture	IS 11255 Part 3:1985	1.74	%		
Temperature	IS 11255 Part 3:1985	34	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	6.77	m/s		
Flow rate	IS 11255 Part 3:1985	6557	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 (Reaff.2003)	9.07	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 : KE24-000175.007
ULR No : TC704724100000158F
Report Control No : KER0000215544

Issue Date : 30/01/2024
JOE No : KE24-000175

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 24/01/2024 12:50 - 13:30HRS
Sampling Location : SAND CLEANING SYSTEM STACK (CORE SHOP)
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : SAND CLEANING SYSTEM BAG FILTER
Emission Due to : DEDUSTING PROCESS
Height of Stack from Ground Level : 30.0 M
Port Hole Available : 02
Pollution Control : BAG FILTER
Device :
Diameter of Stack : 0.6 M
Construction : MS
Material of Stack :
Type of Stack : Circular
Height of Sampling : 22.0 M
Point from GL :
Platform & Ladder at : Yes
Stack :
Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000175.007
 ULR No : TC704724100000158F
 Report Control No : KER0000215544

Issue Date : 30/01/2024
 JOE No : KE24-000175

NABL Accredited Tests

				Requirement/Limit WBPCB	
Analysis	Method	Result	Unit	Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
DISCIPLINE:	CHEMICAL				
Moisture	IS 11255 Part 3:1985	1.89	%		
Temperature	IS 11255 Part 3:1985	33	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	6.76	m/s		
Flow rate	IS 11255 Part 3:1985	6558	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 (Reaff.2003)	4.58	mg/Nm3		100

Remark : All parameters are done at site except PM.

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000175.008
ULR No : TC704724100000159F
Report Control No : KER0000215544

Issue Date : 30/01/2024
JOE No : KE24-000175

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 24/01/2024 11:50- 12:30HRS
Sampling Location : ANNEALING FURNACE STACK
Stack Connected to : ANNEALING FURNACE STACK
Emission Due to : COMBUSTION OF BFG
Height of Stack from : 30M
Ground Level
Diameter of Stack : 1.2M
Height of Sampling : 20 M
Point from GL
Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Carbon Dioxide (CO2)	USEPA METHOD 3A	15.8	%		
DISCIPLINE: CHEMICAL					
Moisture	IS 11255 Part 3:1985	2.41	%		
Temperature	IS 11255 Part 3:1985	76	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	7.75	m/s		
Flow rate	IS 11255 Part 3:1985	26222	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	12.2	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	22.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	11.0	mg/Nm3		

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000175.008
ULR No : TC704724100000159F
Report Control No : KER0000215544

Issue Date : 30/01/2024
JOE No : KE24-000175

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985 (Reaff.2003)	5.59	mg/Nm3		100

Remark : All parameters are done at site except PM.

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000175.009
ULR No : TC704724100000160F
Report Control No : KER0000215544

Issue Date : 30/01/2024
JOE No : KE24-000175

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 24/01/2024 10:50 - 11:30HRS
Sampling Location : WHR BOILER STACK
Stack Connected to : WHR BOILER STACK
Emission Due to : ANNEALING FURNACE WASTE HEAT
Height of Stack from : 30.0 M
Ground Level
Diameter of Stack : 1.1 M
Height of Sampling : 20.0 M
Point from GL
Capacity : 8 TPH
Running Load : 3.5TPH

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Carbon Dioxide (CO2)	USEPA METHOD 3A	12.4	%		
DISCIPLINE: CHEMICAL					
Moisture	IS 11255 Part 3:1985	2.62	%		
Temperature	IS 11255 Part 3:1985	228	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	8.33	m/s		
Flow rate	IS 11255 Part 3:1985	16469	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	12.0	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	18.00	mg/Nm3		

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000175.009
ULR No : TC704724100000160F
Report Control No : KER0000215544

Issue Date : 30/01/2024
JOE No : KE24-000175

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group : Atmospheric Pollution	Stack emission				
Nitrogen Oxides	USEPA METHOD (7E)	8.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985 (Reaff.2003)	4.89	mg/Nm3		100

Remark : All parameters are done at site except PM.

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000173.001
ULR No : TC704724100000148F
Report Control No : KER0000215549

Issue Date : 30/01/2024
JOE No : KE24-000173

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 22/01/2024 10:40 - 11:20hrs
Sampling Location : INDUCTION FURNACE STACK (DIP-2)
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : INDUCTION FURNACE BAG FILTER
Emission Due to : DEDUSTING PROCESS
Height of Stack from Ground Level : 36 M
Height of Sampling Point from GL : 24 M
Port Hole Available : 02
Pollution Control Device : BAG FILTER & CYCLONE SEPERATOR
Diameter of Stack : 1.1M
Construction : MS
Material of Stack :
Type of Stack : Circular
Platform & Ladder at Stack : Yes

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000173.001
 ULR No : TC704724100000148F
 Report Control No : KER0000215549

Issue Date : 30/01/2024
 JOE No : KE24-000173

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	1.87	%		
Temperature	IS 11255 Part 3:1985	40.8	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	5.70	m/s		
Flow rate	IS 11255 Part 3:1985	18134	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 (Reaff.2003)	5.02	mg/Nm3		50

Remark : All parameters are done at site except PM

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000173.002
ULR No : TC704724100000149F
Report Control No : KER0000215549

Issue Date : 30/01/2024
JOE No : KE24-000173

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 22/01/2024 11:40 - 12:20HRS
Sampling Location : ANNEALING FURNACE -2 AIR CHIMNEY (DIP 2)
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : ANNEALING FURNACE -2 AIR CHIMNEY (DIP 2)
Emission Due to : COMBUSTION OF BFG
Height of Stack from Ground Level : 36M
Height of Sampling Point from GL : 30M
Port Hole Available : 02
Pollution Control : BFG (BLAST FURNACE GAS)
Device :
Diameter of Stack : 1.3M
Construction : MS
Material of Stack :
Type of Stack : Circular
Platform & Ladder at Stack : Yes

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Carbon Dioxide (CO2)	USEPA METHOD 3A	16.4	%		
DISCIPLINE:	CHEMICAL				

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000173.002
 ULR No : TC704724100000149F
 Report Control No : KER0000215549

Issue Date : 30/01/2024
 JOE No : KE24-000173

NABL Accredited Tests

				Requirement/Limit WBPCB	
Analysis	Method	Result	Unit	Min	Max
NABL Group : Atmospheric Pollution		Stack emission			
Moisture	IS 11255 Part 3:1985	3.36	%		
Temperature	IS 11255 Part 3:1985	94.2	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	7.72	m/s		
Flow rate	IS 11255 Part 3:1985	28862	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	9.4	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	32.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	15.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985 (Reaff.2003)	8.11	mg/Nm3		50

Remark : All parameters are done at site except PM

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000173.003
ULR No : TC704724100000150F
Report Control No : KER0000215549

Issue Date : 30/01/2024
JOE No : KE24-000173

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 22/01/2024 16:20 - 17:00HRS
Sampling Location : BOILER 8 TPH STACK (DIP-2)
Stack Connected to : BOILER 8 TPH
Emission Due to : BURNING OF HSD
Height of Sampling : 28M
Point from GL :
Pollution Control : NIL
Device :
Diameter of Stack : 0.8M
Capacity : 8 TPH
Running Load : 4TPH
Fuel Used : HSD
Fuel Consumption : 350-400LTR/HR

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Carbon Dioxide (CO2)	USEPA METHOD 3A	9.4	%		
DISCIPLINE: CHEMICAL					
Moisture	IS 11255 Part 3:1985	2.89	%		
Temperature	IS 11255 Part 3:1985	142	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	12.23	m/s		
Flow rate	IS 11255 Part 3:1985	19495	Nm3/Hrs		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000173.003
ULR No : TC704724100000150F
Report Control No : KER0000215549

Issue Date : 30/01/2024
JOE No : KE24-000173

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Oxygen (O2)	USEPA (Method 3A)	9.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	21.00	mg/Nm3		
Nitrogen Oxides	USEPA METHOD (7E)	98.0	mg/Nm3		
Carbon Monoxide (CO)	USEPA 1994 10B	<0.1	%		1
Particulate Matter (PM)	IS:11255 (Part-1):1985 (Reaff.2003)	6.34	mg/Nm3		50

Remark : All parameters are done at site except PM

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000173.004
ULR No : TC704724100000151F
Report Control No : KER0000215549

Issue Date : 30/01/2024
JOE No : KE24-000173

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 23/01/2024 15:40 - 16:20HRS
Sampling Location : ZINC COATING M/C FL-3 STACK
Stack Connected to : ZINC COATING M/C FL-3 BAG FILTER
Emission Due to : DEDUSTING PROCESS
Height of Stack from Ground Level : 30M
Height of Sampling Point from GL : 22M
Pollution Control : BAG FILTER
Device :
Diameter of Stack : 0.6M

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 29/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Carbon Dioxide (CO2)	USEPA METHOD 3A	<0.2	%		
DISCIPLINE: CHEMICAL					
Moisture	IS 11255 Part 3:1985	2.18	%		
Temperature	IS 11255 Part 3:1985	34	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	5.64	m/s		
Flow rate	IS 11255 Part 3:1985	5442	Nm3/Hrs		
Oxygen (O2)	USEPA (Method 3A)	20.8	%		
Sulphur Dioxide (SO2)	USEPA METHOD 6 C	<2.60	mg/Nm3		

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Report No : KE24-000173.004
ULR No : TC704724100000151F
Report Control No : KER0000215549

Issue Date : 30/01/2024
JOE No : KE24-000173

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group : Atmospheric Pollution		Stack emission			
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 (Reaff.2003)	5.31	mg/Nm3		50

Remark : All parameters are done at site except PM

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000168.001
ULR No : TC704724100000249F
Report Control No : KER0000215643

Issue Date : 30/01/2024
JOE No : KE24-000168

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 22/01/2024 9:50 - 10:30HRS
Sampling Location : MAGNESIUM TREATMENT CONVERTER STACK (DIP-2)
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : MAGNESIUM TREATMENT CONVERTER BAG FILTER
Emission Due to : DEDUSTING PROCESS
Height of Stack from Ground Level : 36 M
Height of Sampling Point from GL : 24 M
Port Hole Available : 02
Pollution Control Device : BAG FILTER AND CYCLONE SEPERATOR
Diameter of Stack : 1.1 M
Construction : MS
Material of Stack :
Type of Stack : Circular
Platform & Ladder at Stack : Yes

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000168.001
ULR No : TC704724100000249F
Report Control No : KER0000215643

Issue Date : 30/01/2024
JOE No : KE24-000168

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	2.33	%		
Temperature	IS 11255 Part 3:1985	31	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	10.96	m/s		
Flow rate	IS 11255 Part 3:1985	35678	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	% V/V		
Particulate Matter (PM)	IS:11255 (Part-1):1985 (Reaff.2003)	5.33	mg/Nm3		50

Remark : All parameters done at site except PM.

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000168.002
ULR No : TC704724100000250F
Report Control No : KER0000215643

Issue Date : 30/01/2024
JOE No : KE24-000168

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 22/01/2024 12:40 - 13:20HRS
Sampling Location : CORE SHOP STACK (DIP-2)
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : CORE SHOP BAG FILTER
Emission Due to : DEDUSTING PROCESS
Height of Stack from Ground Level : 36M
Height of Sampling Point from GL : 26M
Port Hole Available : 02
Pollution Control Device : BAG FILTER & CYCLONE SEPERATOR
Diameter of Stack : 0.9 M
Construction : MS
Material of Stack : Circular
Type of Stack : Circular
Platform & Ladder at Stack : Yes

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

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

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Report No : KE24-000168.002
 ULR No : TC704724100000250F
 Report Control No : KER0000215643

Issue Date : 30/01/2024
 JOE No : KE24-000168

NABL Accredited Tests

				Requirement/Limit WBPCB	
Analysis	Method	Result	Unit	Min	Max
NABL Group : Atmospheric Pollution		Stack emission			
Moisture	IS 11255 Part 3:1985	1.94	%		
Temperature	IS 11255 Part 3:1985	34	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	5.64	m/s		
Flow rate	IS 11255 Part 3:1985	12269	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	% V/V		
Particulate Matter (PM)	IS:11255 (Part-1):1985 (Reaff.2003)	4.92	mg/Nm3		50

Remark : All parameters done at site except PM.

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000168.003
ULR No : TC704724100000251F
Report Control No : KER0000215643

Issue Date : 30/01/2024
JOE No : KE24-000168

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sample Description : FLUE GAS
Sampling Date : 22/01/2024 15:30 - 16:10HRS
Sampling Location : ZINC COATING M/C FL-4 STACK (DIP-2)
Sampling Method : SO-IN-MUL-TE-176
Stack Connected to : ZINC COATING M/C FL-4
Emission Due to : DEDUSTING PROCESS
Height of Stack from Ground Level : 36.0 M
Height of Sampling Point from GL : 26 M
Port Hole Available : 02
Pollution Control Device : BAG FILTER
Diameter of Stack : 1.65M
Construction : MS
Material of Stack : Circular
Type of Stack : Circular
Platform & Ladder at Stack : Yes

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

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

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000168.003
 ULR No : TC704724100000251F
 Report Control No : KER0000215643

Issue Date : 30/01/2024
 JOE No : KE24-000168

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	2.33	%		
Temperature	IS 11255 Part 3:1985	35	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	5.56	m/s		
Flow rate	IS 11255 Part 3:1985	40429	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	% V/V		
Particulate Matter (PM)	IS:11255 (Part-1):1985 (Reaff.2003)	4.52	mg/Nm3		50

Remark : All parameters done at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000168.004
ULR No : TC704724100000252F
Report Control No : KER0000215643

Issue Date : 30/01/2024
JOE No : KE24-000168

Customer Provided Information

Sample Described by Customer as : FLUE GAS
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 22/01/2024 14:40 - 15:20HRS
Sampling Location : TRI GRINDING FL-4 STACK(DIP-2)
Stack Connected to : TRI GRINDING FL-4
Emission Due to : DEDUSTING PROCESS
Height of Stack from Ground Level : 36.0 M
Height of Sampling Point from GL : 28 M
Port Hole Available : 02
Pollution Control : BAG FILTER
Device :
Diameter of Stack : 0.9M
Construction : MS
Material of Stack :
Type of Stack : Circular
Platform & Ladder at Stack : Yes
Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS
Received : 25/01/2024
Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

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

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Report No : KE24-000168.004
ULR No : TC704724100000252F
Report Control No : KER0000215643

Issue Date : 30/01/2024
JOE No : KE24-000168

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Moisture	IS 11255 Part 3:1985	1.95	%		
Temperature	IS 11255 Part 3:1985	33	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	10.12	m/s		
Flow rate	IS 11255 Part 3:1985	22073	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	% V/V		
Particulate Matter (PM)	IS:11255 (Part-1):1985 (Reaff.2003)	5.16	mg/Nm3		50

Remark : All parameters done at site except PM.

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000168.005
 ULR No : TC704724100000253F
 Report Control No : KER0000215643

Issue Date : 30/01/2024
 JOE No : KE24-000168

Customer Provided Information

Sample Described by Customer as : FLUE GAS
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 23/01/2024 9:50 - 10:30HRS
 Sampling Location : ZINC COATING M/C FL-5 STACK
 Stack Connected to : ZINC COATING M/C FL-5
 Height of Stack from : 36.0 M
 Ground Level
 Height of Sampling : 26 M
 Point from GL
 Port Hole Available : 02
 Pollution Control : BAG FILTER & CYCLONE SEPERATOR
 Device
 Diameter of Stack : 1.3M
 Construction : MS
 Material of Stack
 Type of Stack : Circular
 Platform & Ladder at : Yes
 Stack
 Sample Description : FLUE GAS

Lab Provided Information

Sample Type : FLUE GAS
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis				Requirement/Limit WBPCB	
				Min	Max
Method	Result	Unit			
NABL Group : Atmospheric Pollution	Stack emission				
Carbon Dioxide (CO2)	USEPA METHOD 3A	<0.2	%		
DISCIPLINE: CHEMICAL					
Moisture	IS 11255 Part 3:1985	2.07	%		

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Report No : KE24-000168.005
 ULR No : TC704724100000253F
 Report Control No : KER0000215643

Issue Date : 30/01/2024
 JOE No : KE24-000168

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Temperature	IS 11255 Part 3:1985	34	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	5.64	m/s		
Flow rate	IS 11255 Part 3:1985	25570	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	% V/V		
Particulate Matter (PM)	IS:11255 (Part-1):1985 (Reaff.2003)	5.84	mg/Nm3		50

Remark : All parameters done at site except PM.

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000168.006
 ULR No : TC704724100000254F
 Report Control No : KER0000215643

Issue Date : 30/01/2024
 JOE No : KE24-000168

Customer Provided Information

Sample Described by Customer as : FLUE GAS
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 23/01/2024 10:40 - 11:20HRS
 Sampling Location : TRI GRINDING FL-5 STACK
 Stack Connected to : TRI GRINDING FL-5

Lab Provided Information

Sample Type : FLUE GAS
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit WBPCB	
				Min	Max
NABL Group :	Atmospheric Pollution	Stack emission			
Carbon Dioxide (CO2)	USEPA METHOD 3A	<0.2	%		
DISCIPLINE:	CHEMICAL				
Moisture	IS 11255 Part 3:1985	1.93	%		
Temperature	IS 11255 Part 3:1985	33	°C		
Barometric Pressure	IS 11255 Part 3:1985	758	mm Hg		
Velocity	IS 11255 Part 3:1985	7.92	m/s		
Flow rate	IS 11255 Part 3:1985	17271	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	% V/V		
Particulate Matter (PM)	IS:11255 (Part-1):1985 (Reaff.2003)	6.99	mg/Nm3		50

Remark : All parameters done at site except PM.

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Report No : KE24-000168.006
ULR No : TC704724100000254F
Report Control No : KER0000215643

Issue Date : 30/01/2024
JOE No : KE24-000168

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****End of Report****

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000157.001
 ULR No : TC704724100000295F
 Report Control No : KER0000215827

Issue Date : 01/02/2024
 JOE No : KE24-000157

Customer Provided Information

Sample Described by Customer as : AMBIENT AIR QUALITY MONITORING

Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 16/01/2024 to 17/01/2024
 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 : 25/01/2024
 Test Start/End Date : 25/01/2024 - 01/02/2024

NABL Accredited Tests

				Requirement/Limit NAAQMS	
Analysis		Method	Result	Unit	
					MinMax
NABL Group : Atmospheric Pollution		Ambient air			
DISCIPLINE: CHEMICAL					
Sulphur Dioxide (SO2)		IS 5182 (Part 02) : 2006	BDL(DL:4)	ug/m3	80
Nitrogen Dioxide (NO2)		IS 5182 (Part 06) : 2006	BDL(DL:7)	ug/m3	80
Particulate Matter (PM10)		IS 5182 (Part 23) : 2006	77.5	ug/m3	100
Particulate Matter (PM2.5)		SO-IN-MUL-TE-068	32.7	ug/m3	60
Ozone (O3)		SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3	100
Lead (as Pb)		IS:5182 (Part-22):2004	0.04	ug/m3	1.0
Carbon Monoxide (CO)		EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3	02
Ammonia (NH3)		SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3	400
Benzene		ASTM D3687: 2007	<2.00	ug/m3	05(Annual)
Benzo (a) Pyrene		USEPA 8270 C TO - 13A	<0.20	ng/m³	01 (Annual)
Arsenic as As		SO-IN-MUL-TE-075	<2.0	ng/m³	06(Annual)
Nickel as Ni		SO-IN-MUL-TE-075	<2.0	ng/m³	20(Annual)

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000157.001
ULR No : TC704724100000295F
Report Control No : KER0000215827

Issue Date : 01/02/2024
JOE No : KE24-000157

Per pro SGS India Private Ltd

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000157.002
 ULR No : TC704724100000296F
 Report Control No : KER0000215827

Issue Date : 01/02/2024
 JOE No : KE24-000157

Customer Provided Information

Sample Described by Customer as : AMBIENT AIR QUALITY MONITORING

Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 16/01/2024 to 17/01/2024
 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 : 25/01/2024
 Test Start/End Date : 25/01/2024 - 01/02/2024

NABL Accredited Tests

				Requirement/Limit NAAQMS	
Analysis		Method	Result	Unit	
					MinMax
NABL Group : Atmospheric Pollution		Ambient air			
DISCIPLINE: CHEMICAL					
Sulphur Dioxide (SO2)		IS 5182 (Part 02) : 2006	BDL(DL:4)	ug/m3	80
Nitrogen Dioxide (NO2)		IS 5182 (Part 06) : 2006	BDL(DL:7)	ug/m3	80
Particulate Matter (PM10)		IS 5182 (Part 23) : 2006	78.4	ug/m3	100
Particulate Matter (PM2.5)		SO-IN-MUL-TE-068	48.8	ug/m3	60
Ozone (O3)		SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3	100
Lead (as Pb)		IS:5182 (Part-22):2004	0.05	ug/m3	1.0
Carbon Monoxide (CO)		EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3	02
Ammonia (NH3)		SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3	400
Benzene		ASTM D3687: 2007	<2.00	ug/m3	05(Annual)
Benzo (a) Pyrene		USEPA 8270 C TO - 13A	<0.20	ng/m³	01 (Annual)
Arsenic as As		SO-IN-MUL-TE-075	4.0	ng/m³	06(Annual)
Nickel as Ni		SO-IN-MUL-TE-075	<2.0	ng/m³	20(Annual)

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000157.002
ULR No : TC704724100000296F
Report Control No : KER0000215827

Issue Date : 01/02/2024
JOE No : KE24-000157

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000157.003
 ULR No : TC704724100000297F
 Report Control No : KER0000215827

Issue Date : 01/02/2024
 JOE No : KE24-000157

Customer Provided Information

Sample Described by Customer as : AMBIENT AIR QUALITY MONITORING

Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 17/01/2024 to 18/01/2024
 Sampling Location : NEAR CCP-3
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : AMBIENT AIR QUALITY MONITORING

Lab Provided Information

Sample Type : AMBIENT_AIR
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 01/02/2024

NABL Accredited Tests

				Requirement/Limit NAAQMS	
Analysis		Method	Result	Unit	
					MinMax
NABL Group : Atmospheric Pollution		Ambient air			
DISCIPLINE: CHEMICAL					
Sulphur Dioxide (SO2)		IS 5182 (Part 02) : 2006	BDL(DL:4)	ug/m3	80
Nitrogen Dioxide (NO2)		IS 5182 (Part 06) : 2006	BDL(DL:7)	ug/m3	80
Particulate Matter (PM10)		IS 5182 (Part 23) : 2006	76.9	ug/m3	100
Particulate Matter (PM2.5)		SO-IN-MUL-TE-068	38.2	ug/m3	60
Ozone (O3)		SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3	100
Lead (as Pb)		IS:5182 (Part-22):2004	0.11	ug/m3	1.0
Carbon Monoxide (CO)		EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3	02
Ammonia (NH3)		SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3	400
Benzene		ASTM D3687: 2007	<2.00	ug/m3	05(Annual)
Benzo (a) Pyrene		USEPA 8270 C TO - 13A	<0.20	ng/m³	01 (Annual)
Arsenic as As		SO-IN-MUL-TE-075	2.8	ng/m³	06(Annual)
Nickel as Ni		SO-IN-MUL-TE-075	<2.0	ng/m³	20(Annual)

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

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ULR No : TC704724100000297F
Report Control No : KER0000215827

Issue Date : 01/02/2024
JOE No : KE24-000157

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000157.004
 ULR No : TC704724100000298F
 Report Control No : KER0000215827

Issue Date : 01/02/2024
 JOE No : KE24-000157

Customer Provided Information

Sample Described by Customer as : AMBIENT AIR QUALITY MONITORING

Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 17/01/2024 to 18/01/2024
 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 : 25/01/2024
 Test Start/End Date : 25/01/2024 - 01/02/2024

NABL Accredited Tests

				Requirement/Limit NAAQMS	
Analysis		Method	Result	Unit	
					Min Max
NABL Group : Atmospheric Pollution		Ambient air			
DISCIPLINE: CHEMICAL					
Sulphur Dioxide (SO2)		IS 5182 (Part 02) : 2006	BDL(DL:4)	ug/m3	80
Nitrogen Dioxide (NO2)		IS 5182 (Part 06) : 2006	BDL(DL:7)	ug/m3	80
Particulate Matter (PM10)		IS 5182 (Part 23) : 2006	75.7	ug/m3	100
Particulate Matter (PM2.5)		SO-IN-MUL-TE-068	34.8	ug/m3	60
Ozone (O3)		SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3	100
Lead (as Pb)		IS:5182 (Part-22):2004	0.11	ug/m3	1.0
Carbon Monoxide (CO)		EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3	02
Ammonia (NH3)		SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3	400
Benzene		ASTM D3687: 2007	<2.00	ug/m3	05(Annual)
Benzo (a) Pyrene		USEPA 8270 C TO - 13A	<0.20	ng/m³	01 (Annual)
Arsenic as As		SO-IN-MUL-TE-075	<2.0	ng/m³	06(Annual)
Nickel as Ni		SO-IN-MUL-TE-075	<2.0	ng/m³	20(Annual)

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

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ULR No : TC704724100000298F
Report Control No : KER0000215827

Issue Date : 01/02/2024
JOE No : KE24-000157

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000157.005
 ULR No : TC704724100000299F
 Report Control No : KER0000215827

Issue Date : 01/02/2024
 JOE No : KE24-000157

Customer Provided Information

Sample Described by Customer as : AMBIENT AIR QUALITY MONITORING

Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 18/01/2024 to 19/01/2024
 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 : 25/01/2024
 Test Start/End Date : 25/01/2024 - 01/02/2024

NABL Accredited Tests

				Requirement/Limit NAAQMS	
Analysis		Method	Result	Unit	
					MinMax
NABL Group : Atmospheric Pollution		Ambient air			
DISCIPLINE: CHEMICAL					
Sulphur Dioxide (SO2)		IS 5182 (Part 02) : 2006	BDL(DL:4)	ug/m3	80
Nitrogen Dioxide (NO2)		IS 5182 (Part 06) : 2006	BDL(DL:7)	ug/m3	80
Particulate Matter (PM10)		IS 5182 (Part 23) : 2006	79.9	ug/m3	100
Particulate Matter (PM2.5)		SO-IN-MUL-TE-068	37.8	ug/m3	60
Ozone (O3)		SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3	100
Lead (as Pb)		IS:5182 (Part-22):2004	0.15	ug/m3	1.0
Carbon Monoxide (CO)		EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3	02
Ammonia (NH3)		SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3	400
Benzene		ASTM D3687: 2007	<2.00	ug/m3	05(Annual)
Benzo (a) Pyrene		USEPA 8270 C TO - 13A	<0.20	ng/m³	01 (Annual)
Arsenic as As		SO-IN-MUL-TE-075	9.2	ng/m³	06(Annual)
Nickel as Ni		SO-IN-MUL-TE-075	<2.0	ng/m³	20(Annual)

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000157.005
ULR No : TC704724100000299F
Report Control No : KER0000215827

Issue Date : 01/02/2024
JOE No : KE24-000157

Per pro SGS India Private Ltd

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000157.006
 ULR No : TC704724100000300F
 Report Control No : KER0000215827

Issue Date : 01/02/2024
 JOE No : KE24-000157

Customer Provided Information

Sample Described by Customer as : AMBIENT AIR QUALITY MONITORING

Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 19/01/2024 to 20/01/2024
 Sampling Location : NEAR DIP MATERIAL GATE
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : AMBIENT AIR QUALITY MONITORING

Lab Provided Information

Sample Type : AMBIENT_AIR
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 01/02/2024

NABL Accredited Tests

				Requirement/Limit NAAQMS	
Analysis		Method	Result	Unit	
					MinMax
NABL Group : Atmospheric Pollution		Ambient air			
DISCIPLINE: CHEMICAL					
Sulphur Dioxide (SO2)		IS 5182 (Part 02) : 2006	BDL(DL:4)	ug/m3	80
Nitrogen Dioxide (NO2)		IS 5182 (Part 06) : 2006	BDL(DL:7)	ug/m3	80
Particulate Matter (PM10)		IS 5182 (Part 23) : 2006	74.0	ug/m3	100
Particulate Matter (PM2.5)		SO-IN-MUL-TE-068	42.4	ug/m3	60
Ozone (O3)		SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3	100
Lead (as Pb)		IS:5182 (Part-22):2004	0.06	ug/m3	1.0
Carbon Monoxide (CO)		EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3	02
Ammonia (NH3)		SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3	400
Benzene		ASTM D3687: 2007	<2.00	ug/m3	05(Annual)
Benzo (a) Pyrene		USEPA 8270 C TO - 13A	<0.20	ng/m³	01 (Annual)
Arsenic as As		SO-IN-MUL-TE-075	12.6	ng/m³	06(Annual)
Nickel as Ni		SO-IN-MUL-TE-075	<2.0	ng/m³	20(Annual)

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000157.006
ULR No : TC704724100000300F
Report Control No : KER0000215827

Issue Date : 01/02/2024
JOE No : KE24-000157

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000157.007
 ULR No : TC704724100000301F
 Report Control No : KER0000215827

Issue Date : 01/02/2024
 JOE No : KE24-000157

Customer Provided Information

Sample Described by Customer as : AMBIENT AIR QUALITY MONITORING

Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sample Description : AMBIENT AIR QUALITY MONITORING
 Sampling Date : 19/01/2024 to 20/01/2024
 Sampling Location : NEAR RAILWAY SIDING
 Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT_AIR
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 01/02/2024

NABL Accredited Tests

				Requirement/Limit NAAQMS	
Analysis		Method	Result	Unit	
					MinMax
NABL Group : Atmospheric Pollution		Ambient air			
DISCIPLINE: CHEMICAL					
Sulphur Dioxide (SO2)		IS 5182 (Part 02) : 2006	BDL(DL:4)	ug/m3	80
Nitrogen Dioxide (NO2)		IS 5182 (Part 06) : 2006	BDL(DL:7)	ug/m3	80
Particulate Matter (PM10)		IS 5182 (Part 23) : 2006	69.1	ug/m3	100
Particulate Matter (PM2.5)		SO-IN-MUL-TE-068	27.0	ug/m3	60
Ozone (O3)		SO-IN-MUL-TE-075	BDL(DL:5)	ug/m3	100
Lead (as Pb)		IS:5182 (Part-22):2004	0.06	ug/m3	1.0
Carbon Monoxide (CO)		EPA 600/P-99/001F	BDL(DL:1.0)	mg/m3	02
Ammonia (NH3)		SO-IN-MUL-TE-075	BDL(DL:20)	ug/m3	400
Benzene		ASTM D3687: 2007	<2.00	ug/m3	05(Annual)
Benzo (a) Pyrene		USEPA 8270 C TO - 13A	<0.20	ng/m³	01 (Annual)
Arsenic as As		SO-IN-MUL-TE-075	36.7	ng/m³	06(Annual)
Nickel as Ni		SO-IN-MUL-TE-075	<2.0	ng/m³	20(Annual)

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

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000157.007
ULR No : TC704724100000301F
Report Control No : KER0000215827

Issue Date : 01/02/2024
JOE No : KE24-000157

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000156.001
 ULR No : TC704723100003356F
 Report Control No : KER0000215822

Issue Date : 01/02/2024
 JOE No : KE24-000156

Customer Provided Information

Sample Described by Customer as : EFFLUENT
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 24/01/2024
 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 : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis				Method	Result	Unit	Requirement/Limit CPCB DIS. INLAND SURFACE WATER MinMax
NABL Group : Pollution & Environment		Waste Water (Effluents/Sewage)					
DISCIPLINE: CHEMICAL							
Total Suspended Solids		APHA 23RD EDN 2540 D	5.10		mg/L	100	
pH		APHA 23RD EDN 4500 B	7.17		--	5.5-9.0	
Analysed at site.							
Oil & Grease		APHA 23RD EDN 5520 B	<2.0		mg/L	10	
BOD at 27 °C for 3 days		IS 3025 (Part 44) : 1993	<2.0		mg/L	30	
COD		APHA 24th EDN: 5220 B	10.2		mg/L	250	
Total Dissolved Solids		APHA 23 RD EDN 2540 C	582.0		mg/L		

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Report No : KE24-000156.001
ULR No : TC704723100003356F
Report Control No : KER0000215822

Issue Date : 01/02/2024
JOE No : KE24-000156

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000156.002
 ULR No : TC704723100003357F
 Report Control No : KER0000215822

Issue Date : 01/02/2024
 JOE No : KE24-000156

Customer Provided Information

Sample Described by Customer as : EFFLUENT
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 24/01/2024
 Sampling Location : EMERGENCY DISCHARGE POINT -1
 Sampling Method : APHA 1060B
 Sample Qty. Recd. : 3.5L APPROX.
 Sample Description : EFFLUENT

Lab Provided Information

Sample Type : EFFLUENT
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis				Method	Result	Unit	Requirement/Limit CPCB DIS. INLAND SURFACE WATER MinMax
NABL Group : Pollution & Environment		Waste Water (Effluents/Sewage)					
DISCIPLINE: CHEMICAL							
Total Suspended Solids		APHA 23RD EDN 2540 D	116.50		mg/L	100	
pH		APHA 23RD EDN 4500 B	7.01		--	5.5-9.0	
Analysed at site.							
Oil & Grease		APHA 23RD EDN 5520 B	<2.0		mg/L	10	
BOD at 27 °C for 3 days		IS 3025 (Part 44) : 1993	5.8		mg/L	30	
COD		APHA 24th EDN: 5220 B	42.8		mg/L	250	
Total Dissolved Solids		APHA 23 RD EDN 2540 C	2522.0		mg/L		

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SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000156.002
ULR No : TC704723100003357F
Report Control No : KER0000215822

Issue Date : 01/02/2024
JOE No : KE24-000156

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000156.003
 ULR No : TC704723100003358F
 Report Control No : KER0000215822

Issue Date : 01/02/2024
 JOE No : KE24-000156

Customer Provided Information

Sample Described by Customer as : EFFLUENT
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 24/01/2024
 Sampling Location : EMERGENCY DISCHARGE POINT -2
 Sampling Method : APHA 1060B
 Sample Qty. Recd. : 3.5L APPROX.
 Sample Description : EFFLUENT

Lab Provided Information

Sample Type : EFFLUENT
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis				Method	Result	Unit	Requirement/Limit CPCB DIS. INLAND SURFACE WATER MinMax
NABL Group : Pollution & Environment		Waste Water (Effluents/Sewage)					
DISCIPLINE: CHEMICAL							
Total Suspended Solids		APHA 23RD EDN 2540 D	19.30		mg/L	100	
pH		APHA 23RD EDN 4500 B	7.42		--	5.5-9.0	
Analysed at site.							
Oil & Grease		APHA 23RD EDN 5520 B	<2.0		mg/L	10	
BOD at 27 °C for 3 days		IS 3025 (Part 44) : 1993	2.6		mg/L	30	
COD		APHA 24th EDN: 5220 B	22.4		mg/L	250	
Total Dissolved Solids		APHA 23 RD EDN 2540 C	1191.0		mg/L		

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ULR No : TC704723100003358F
Report Control No : KER0000215822

Issue Date : 01/02/2024
JOE No : KE24-000156

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000156.004
 ULR No : TC704723100003359F
 Report Control No : KER0000215822

Issue Date : 01/02/2024
 JOE No : KE24-000156

Customer Provided Information

Sample Described by Customer as : EFFLUENT
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 24/01/2024
 Sampling Location : NEW ETP OUTLET(DI)
 Sampling Method : APHA 1060B
 Sample Qty. Recd. : 3.5L APPROX.
 Sample Description : EFFLUENT

Lab Provided Information

Sample Type : EFFLUENT
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

				Requirement/Limit	
Analysis	Method	Result	Unit	CPCB DIS. INLAND	
				SURFACE WATER	
	Min			Max	
NABL Group :	Pollution & Environment	Waste Water (Effluents/Sewage)			
DISCIPLINE: CHEMICAL					
Total Suspended Solids	APHA 23RD EDN 2540 D	18.08	mg/L		100
pH	APHA 23RD EDN 4500 B	8.40	--		5.5-9.0
Analysed at site.					
Oil & Grease	APHA 23RD EDN 5520 B	<2.0	mg/L		10
BOD at 27 °C for 3 days	IS 3025 (Part 44) : 1993	2.4	mg/L		30
COD	APHA 24th EDN: 5220 B	24.5	mg/L		250
Total Dissolved Solids	APHA 23 RD EDN 2540 C	2302.0	mg/L		

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Report No : KE24-000156.004
ULR No : TC704723100003359F
Report Control No : KER0000215822

Issue Date : 01/02/2024
JOE No : KE24-000156

Per pro SGS India Private Ltd

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000156.005
 ULR No : TC704723100003360F
 Report Control No : KER0000215822

Issue Date : 01/02/2024
 JOE No : KE24-000156

Customer Provided Information

Sample Described by Customer as : EFFLUENT
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 24/01/2024
 Sampling Location : EMERGENCY DISCHARGE POINT 3
 Sampling Method : APHA 1060B
 Sample Qty. Recd. : 3.5L APPROX.
 Sample Description : EFFLUENT

Lab Provided Information

Sample Type : EFFLUENT
 Received : 25/01/2024
 Test Start/End Date : 25/01/2024 - 30/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit CPCB DIS. INLAND SURFACE WATER Min Max
NABL Group : Pollution & Environment		Waste Water (Effluents/Sewage)		
DISCIPLINE: CHEMICAL				
Total Suspended Solids	APHA 23RD EDN 2540 D	11.00	mg/L	100
pH	APHA 23RD EDN 4500 B	6.70	--	5.5-9.0
<i>Analysed at site.</i>				
Oil & Grease	APHA 23RD EDN 5520 B	<2.0	mg/L	10
BOD at 27 °C for 3 days	IS 3025 (Part 44) : 1993	4.8	mg/L	30
COD	APHA 24th EDN: 5220 B	49.0	mg/L	250
Total Dissolved Solids	APHA 23 RD EDN 2540 C	549.0	mg/L	

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000156.005
ULR No : TC704723100003360F
Report Control No : KER0000215822

Issue Date : 01/02/2024
JOE No : KE24-000156

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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
Sample Date: 11/10/2023	Sample Time: 14:50	
Human Activities: Drinking	Weather: Clear	Water Body: Ground Water at TATA Metaliks Kharagpur
Frequency Of Monitoring: Halfyearly	Use Based Class: A	Approximate Depth(Bottom/Table): 300.00 m
Color & Intensity: Clear	Odour: None	Visible effluent discharge: None

Water Quality		
Parameter	Test Result	Unit
Ammonia-N	BDL	mg/l
BOD	0.70	mg/l
Conductivity	462.60	µs/cm
Fecal Coliform	Nil	MPN/100ml
Nitrate-N	BDL	mg/l
pH	8.00	Unit
Temperature(Water)	27	°C
Total Coliform	Nil	MPN/100ml
Boron	BDL	mg/l
Calcium	52	mg/l
Chloride	15.10	mg/l
COD	5.10	mg/l
Fluoride	0.17	mg/l
Magnesium	25	mg/l
Phenolphthalein Alkanity	Nil	mg/l
Phosphate-P	BDL	mg/l
Potassium	3.80	mg/l
Sodium	25.90	mg/l

<i>Sulphate</i>	<i>8.91</i>	<i>mg/l</i>
<i>Total Alkalinity</i>	<i>280</i>	<i>mg/l</i>
<i>Total Dissolved Solids(TDS)</i>	<i>242</i>	<i>mg/l</i>
<i>Total Fixed Solids(TFS)</i>	<i>214</i>	<i>mg/l</i>
<i>Total Hardness as CaCo3</i>	<i>232</i>	<i>mg/l</i>
<i>Total Suspended Solids(TSS)</i>	<i>6</i>	<i>mg/l</i>
<i>Turbidity</i>	<i>5.50</i>	<i>NTU</i>



TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000188.001
 ULR No : TC704724100000140F
 Report Control No : KER0000215554

Issue Date : 30/01/2024
 JOE No : KE24-000188

Customer Provided Information

Sample Described by Customer as : AMBIENT NOISE
 Customer Name : TATA METALIKS LIMITED
 Customer Address : Vill.-Mahespur - PO- Samraipur
 : Dist- Paschim Midnapore
 Postal Code : 721301
 Country : INDIA
 Sampling Date : 22/01/2024
 Sampling Location : NEAR GUEST HOUSE
 Sampling Method : SO-IN-MUL-TE-176
 Sample Description : AMBIENT NOISE

Lab Provided Information

Sample Type : AMBIENT NOISE
 Received : 29/01/2024
 Test Start/End Date : 29/01/2024 - 29/01/2024

NABL Accredited Tests

				Requirement/Limit CPCB INDUSTRIAL ZONE	
Analysis	Method	Result	Unit	Min	Max
NABL Group :	Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)			
DISCIPLINE:	CHEMICAL				
Noise (Day Time)	SO-IN-MUL-TE-049	61.30	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	48.10	dB(A) Leq		70

Remark : ANALYSED AT SITE.

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000188.002
ULR No : TC704724100000141F
Report Control No : KER0000215554

Issue Date : 30/01/2024
JOE No : KE24-000188

Customer Provided Information

Sample Described by Customer as : AMBIENT NOISE
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 22/01/2024
Sampling Location : NEAR CPP-3
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT NOISE
Received : 29/01/2024
Test Start/End Date : 29/01/2024 - 29/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL ZONE	
				Min	Max
NABL Group :	Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)			
DISCIPLINE:	CHEMICAL				
Noise (Day Time)	SO-IN-MUL-TE-049	71.00	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	64.40	dB(A) Leq		70

Remark : ANALYSED AT SITE.

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000188.003
ULR No : TC704724100000142F
Report Control No : KER0000215554

Issue Date : 30/01/2024
JOE No : KE24-000188

Customer Provided Information

Sample Described by Customer as : AMBIENT NOISE
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 22/01/2024
Sampling Location : NEAR DUCTURA HOUSE
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT NOISE
Received : 29/01/2024
Test Start/End Date : 29/01/2024 - 29/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL ZONE	
				Min	Max
NABL Group :	Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)			
DISCIPLINE:	CHEMICAL				
Noise (Day Time)	SO-IN-MUL-TE-049	66.90	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	56.60	dB(A) Leq		70

Remark : ANALYSED AT SITE.

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000188.004
ULR No : TC704724100000143F
Report Control No : KER0000215554

Issue Date : 30/01/2024
JOE No : KE24-000188

Customer Provided Information

Sample Described by Customer as : AMBIENT NOISE
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 22/01/2024
Sampling Location : NEAR DIP MATERIAL GATE
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT NOISE
Received : 29/01/2024
Test Start/End Date : 29/01/2024 - 29/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL ZONE	
				Min	Max
NABL Group :	Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)			
DISCIPLINE:	CHEMICAL				
Noise (Day Time)	SO-IN-MUL-TE-049	71.40	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	52.10	dB(A) Leq		70

Remark : ANALYSED AT SITE.

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000188.005
ULR No : TC704724100000144F
Report Control No : KER0000215554

Issue Date : 30/01/2024
JOE No : KE24-000188

Customer Provided Information

Sample Described by Customer as : AMBIENT NOISE
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 22/01/2024
Sampling Location : NEAR RAILWAY SIDING
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT NOISE
Received : 29/01/2024
Test Start/End Date : 29/01/2024 - 29/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit CPCB INDUSTRIAL ZONE	
				Min	Max
NABL Group :	Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)			
DISCIPLINE:	CHEMICAL				
Noise (Day Time)	SO-IN-MUL-TE-049	53.10	dB(A) Leq		75
Noise (Night Time)	SO-IN-MUL-TE-049	45.60	dB(A) Leq		70

Remark : ANALYSED AT SITE.

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000187.001
ULR No : TC704724100000138F
Report Control No : KER0000215558

Issue Date : 30/01/2024
JOE No : KE24-000187

Customer Provided Information

Sample Described by Customer as : AMBIENT NOISE
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 16/01/2024
Sampling Location : MAHESHPUR VILLAGE
Sampling Method : SO-IN-MUL-TE-176
Sample Description : AMBIENT NOISE

Lab Provided Information

Sample Type : AMBIENT NOISE
Received : 29/01/2024
Test Start/End Date : 29/01/2024 - 29/01/2024

NABL Accredited Tests

				Requirement/Limit CPCB RESIDENTIAL AREA	
Analysis		Method	Result	Unit	
					MinMax
NABL Group :	Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)			
DISCIPLINE:	CHEMICAL				
Noise (Day Time)	SO-IN-MUL-TE-049	50.10	dB(A) Leq	55	
Noise (Night Time)	SO-IN-MUL-TE-049	40.30	dB(A) Leq	45	

Remark : ANALYSED AT SITE.

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****End of Report****

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TC-7047

SAMPLE DRAWN BY SGS INDIA PVT. LTD.

Report No : KE24-000187.002
ULR No : TC704724100000139F
Report Control No : KER0000215558

Issue Date : 30/01/2024
JOE No : KE24-000187

Customer Provided Information

Sample Described by Customer as : AMBIENT NOISE
Customer Name : TATA METALIKS LIMITED
Customer Address : Vill.-Mahespur - PO- Samraipur
Dist- Paschim Midnapore
Postal Code : 721301
Country : INDIA
Sampling Date : 16/01/2024
Sampling Location : GOKULPUR VILLAGE
Sampling Method : SO-IN-MUL-TE-176

Lab Provided Information

Sample Type : AMBIENT NOISE
Received : 29/01/2024
Test Start/End Date : 29/01/2024 - 29/01/2024

NABL Accredited Tests

Analysis	Method	Result	Unit	Requirement/Limit CPCB RESIDENTIAL AREA	
				Min	Max
NABL Group :	Atmospheric Pollution	Ambient Noise Levels (Excluding vibration)			
DISCIPLINE:	CHEMICAL				
Noise (Day Time)	SO-IN-MUL-TE-049	47.20	dB(A) Leq		55
Noise (Night Time)	SO-IN-MUL-TE-049	38.80	dB(A) Leq		45

Remark : ANALYSED AT SITE.

Per pro SGS India Private Ltd

SATYA CHARAN MANNA

Authorized Signatory

****End of Report****

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Carbon Footprint Reduction initiatives for FY'24

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

- Variable frequency drive (VFD) installation has been planned for HT blowers of Mini Blast Furnace (MBF) & other LT loads.
- Replacement of conventional type lighting by LED Lights in different phases.
- Installation of SVG & Harmonics Filter at different electrical loads in Finished Product division.
- Zero Flaring in MBF by installation of Root Blowers
- Power Generation optimization between CPP-2 & CPP-4 during MBF#2 shut down (90 days)
- Increasing Feed water temperature through a HP heater to reduce THR and BFG consumption at CPP-2 boiler
- 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)
- Energy efficient impeller for sinter tail ID fan for power saving.

Renewable, Waste Heat Recovery based systems & others

- Installation of another 1.8 MWp roof top solar power plant at new ductile iron pipe unit shed
- 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

- Improvement of Sinter Productivity done through prediction model by reducing process variability
- 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
- Fine Coal Silo Capacity enhancement in PCI Plant
- Additional N2 charging during MBF blowdown in Gunning Shutdown to reduce the shutdown duration by 36 hours.
- Furnace top camera in MBF-1 for continuous gas flow monitoring inside furnace for improving Fuel rate by stable F/C operation.
- Increase nut coke consumption with lime coating for improving RI for fuel rate reduction
- Si, S % prediction model to reduce fuel rate

Liquid Fuel Saving initiatives

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

PRE- EMPLOYMENT AND PERIODICAL OCCUPATIONAL HEALTH CHECK-UP REPORTS
(April -2023 to March-2024)

Time Period	PEME Employees & CL	Periodical Occupational Health Check-Up of Employees		Periodical Occupational Health Check-Up of Service Provider's Employees		Remarks
		PI+SF+project	DIP	PI	DIP	
April'23 to Sept'23	460 (Emp=159, Regular CL= 301)	372	1190	1551	1780	Total PEME= 460 and POHC= 4893
Oct'23 to Mar'24	436(Emp=57, Regular CL=379)	NIL	NIL	NIL	Nil	Total PEME= 436 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
2019	186.04	Maheshpur (Muslimpara)- Drinking Water & Sanitation Project, Road & Drainage system	95	Completed
		Tentuliya (Kenduapal)- Drinking Water & Sanitation Project, Drainage system	56.04	Completed
		Maheshpur (Raipara)- Training Centre	35	Completed
2020	50	Mollachak- Drinking Water & Sanitation Project, Drainage system	50	Completed
2021	160	Samraipur- Solar Powered Drinking Water Project, Construction of internal road, toilets, Drain & Waste water management system, renovation of Pond and School	100	Completed
		Risha - Solar powered drinking water project, Toilet blocks, bathroom and drainage work	60	Completed
2022	158.96	Renovation of schools in nearby village(Chunpara)	5	Completed
		Kenduapal- Revival of Drinking Water Project, Sanitation Project & Drainage system	70	Completed
		Keshpal- Sanitation Project	12	Completed
		Uttar Narayanpur- Drinking Water & Sanitation Project, Drainage system	71.96	Completed
Total	555		555	

Tata Metaliks Sustainability Policy

Tata Metaliks is committed to create long-term stakeholder value in line with the Tata Group's environmental, social and ethical principles. Towards reaching the above goal, Tata Metaliks shall;

- Integrate sustainability considerations into all business decisions and key work processes to protect the environment and address climate change implications.
- Identify relevant and material sustainability issues with regard to Land, Water, Air, Energy & Waste and develop comprehensive sustainability strategies with goals, targets, action & mitigation plans.
- Create an environment to ensure highest standards of transparency with quality governance practices, ethical & beyond compliance standards and address expectation and requirements of all stakeholders with adequate disclosures in line with established global reporting frameworks.
- Provide employees and business associates with working conditions that are clean, safe, healthy and fair.
- Embody principles of product stewardship by enhancing health, safety, environmental and social impacts of products and services across their lifecycles.
- Encourage supply chain partners to adopt sustainability goals and practices and institutionalize Life Cycle Assessment process in the value chain.
- Strive to contribute towards enhancing peoples' standard of living within the communities we serve.
- Raise awareness about the need for sustainable development among employees, communities & associated ecosystems.

February 07, 2022

Sandeep Kumar



Managing Director

Integrated Management System Policy

(Incorporating ISO 9001: 2015, ISO 14001:2015, ISO 45001:2018 and SA 8000:2014)

Tata Metaliks is engaged in the business of manufacturing and sales of pig iron and centrifugally cast ductile iron pipes & accessories to serve the needs of foundry, water supply and wastewater management industries, and committed to the following

► **Robust People Practices:**

- Ensure a safe workplace by minimizing the risks, improve occupational health of our employees and partners, and develop a robust safety culture within the organization.
- Provide training to all persons including contractors and sub-contractors for knowledge and skill up-gradation.

► **Responsible Corporate Citizenship:**

- Protect environment including prevention of pollution by reducing, reusing and recycling waste as well as usage of water which is increasingly a scarce resource.
- Support the creation of a sustainable future of our planet by minimizing the usage of natural resources and mitigating the impact on the environment.
- Meet and exceed regulatory compliance requirements, respect ILO standards, applicable international instruments and their interpretation.
- Respect employees' rights.
- Improve the lives of the surrounding community through focused and impactful CSR interventions on key social themes.
- Promote socially accountable and ethical business practices by adopting Tata Code of Conduct and complying to requirements of SA 8000:2014.

► **Supplier of Choice:**

- Create customer delight through supply of quality products and services

► **Cost Leadership:**

- Achieve operational excellence and cost leadership by harnessing technology and the power of the team.

► **Focus on Downstream/Value Add:**

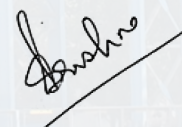
- Achieve long-term growth through creation of sustainable value for all the stakeholders.

► **Innovate and Excel:**

- Develop a culture of continual improvement by creating an environment of high performance and innovation.

The above policy shall be communicated and made available to interested parties on request and shall be reviewed periodically in line with the changing business environment.

March 01, 2023



Alok Krishna
Managing Director

ENVIRONMENTAL POLICY

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

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

Date : November 1, 2017



T V Narendran
CEO & Managing Director



Environment protection measures in FY'24

S.N.	Description of environment protection measure executed/ in advanced stage of completion in FY'24	Investment Amount (₹ in lakh) (order placed/ expenditure made)
1.	Installation of 5 Nos. dust monitor for Pig Iron division Stack.	27.6
2.	Installation of IOT device for new DIP stack for data transfer	10.0
3.	Construction of ZLD (Zero Liquid discharge) network	200.0
4.	Coke drying unit 25 TPH capacity at RMHS-2 bunker	900.0
5.	Syn Gas plant to replace BFG for additional power generation.	350.0
6.	Hiring of truck mounted fog canon system to control fugitive dust for Raw material Stock	16.06
7.	Cyclone separator assembly for Magnesium converter, Zn coating m/c FL-1 , Zinc coating m/c FL-3 & Tri-grinding de-dusting unit at Ductile Iron Pipe plant	25.0
8.	CMC of CAAQMS	31.8
9.	AMC & Calibration of CEMS for PI & DI unit	14.9
10.	MBF#2 Fume extraction system & stack installation for Cast House	445.0
11.	Environmental monitoring through accredited agency	10.8
12.	Electrical Energy Conservation initiatives through power generation through microturbine with PRDS unit in CPP-2	180.0
13.	Install sinter cooler WHRB (9TPH) 10.5 Kg/cm ² to generate & supply steam for DIP -2 curing therefore save BFG & generate 1.6 MW power	700.0
14.	Hiring of Water tanker for water spraying on main road from Gokulpur village to Maheshpur Vill to mitigate air pollution and dust control.	3.0
15.	Green belt augmentation (5600 nos. of saplings) & for plantation at nearby community (3120 nos. of saplings) & Tree bank development (2000 nos.)	7.0
16.	External Environment Audit	3.0
17.	Wind shelter fencing is constructed near Iron ore yard	5.0
18.	Fanless & finless cooling tower	150.0
19.	RMHS 2 Bag Filter capacity enhancement	1000.0