



**SHYAM STEEL**

Shyam Steel Industries Ltd

Regd. Office Shyam Tower, Premises No. 03-319, DH-6/11

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CIN : U27100WB2002PLC094339

**SSIL/24-25/Sr.GM/63**

**Date: 25-05-2024**

**To,  
Deputy Director General of Forests (C)  
Ministry of Env., Forest and Climate Change,  
Integrated Regional Office, Kolkata IB – 198,  
Sector-III, Salt Lake City, Kolkata – 700106**

**Sub: Six-monthly Compliance to the Environment Clearance condition vide MoEF Letter No. F No. J-11011/97/2008-IA.II (I) dated 08.06.2009 of Shyam Steel Industries Limited Expansion of Steel Plant (60,000 TPA to 2,50,000 TPA TMT Bars) by installing Ladle Refining Furnace ( LRF,1x30MT),Electric arc Furnace ( EAF,1 x 30 MT)with Billet Caster along with Captive Power Plant ( 10MW) At Raturia Industrial Area, Angadpur, Durgapur, District- Paschim Bardhaman, West Bengal, Pin-713215. (For the period of October 2023 to March 2024)**

Ref: Environment Clearance No. J-11011/97/2008-IA.II (I) dated 08.06.2009.

Dear Sir,

This has reference to the captioned subject and cited reference. It is to inform you that we are herewith submitting six monthly compliance report for the conditions stipulated in the Environmental Clearance of Expansion of Steel Plant (60,000 TPA to 2,50,000 TPA TMT Bars) by installing Ladle Refining Furnace ( LRF,1x30MT),Electric arc Furnace ( EAF,1 x 30 MT) with Billet Caster along with Captive Power Plant (10MW) for the period of October 2023 to March 2024 along with monitoring data report for your kind consideration. The copy of above compliance report is also being sent in soft format through email to [iro.kolkata-mefcc@gov.in](mailto:iro.kolkata-mefcc@gov.in) for your kind perusal.

Hope the above are in line with the statutory requirements.

Thanking you.

Yours faithfully,

**For Shyam Steel Industries Ltd.**

  
**Sr. General Manager (Commercial)**

Enclosure: As above

Copy to: The Environmental Engineer, West Bengal Pollution Control Board, Sahid Khudiram Sarani, City Center, Durgapur, Paschim Bardhaman-713216, West Bengal.

# **ENVIRONMENTAL CLEARANCE COMPLIANCE STATUS REPORT**

**October 2023 to March 2024**

**Shyam Steel Industries Ltd,  
Angadpur, Durgapur**

**Six Monthly Compliance Status report of Environmental Clearance from expansion of (60,000 TPA to 2,50,000 TPA TMT Bars) by installing Ladle Refining Furnace (LRF,1x30MT), Electric arc Furnace (EAF,1 x 30 MT) with Billet Caster along with Captive Power Plant (10MW).**

**ENVIRONMENTAL MANAGEMENT DEPARTMENT  
SHYAM STEEL INDUSTRIES LIMITED**



F No. J-11011/97/2008- IA II (I) Date-08.06.2009

Six Monthly Compliance of conditions stipulated in the Environmental Clearance of Shyam Steel Industries Limited. Expansion of Steel Plant (60,000 TPA to 2,50,000 TPA TMT Bars) by installing Ladle Refining Furnace (LRF, 1x30MT), Electric arc Furnace (EAF, 1 x 30 MT) with Billet Caster along with Captive Power Plant (10MW) At Raturia Industrial Area, Angadpur, Durgapur, District-Paschim Bardhaman, West Bengal, Pin-713215.

(For the period of October 2023 to March 2024)

Sr. No	Stipulated Conditions	Action taken / To be taken
<b>A. Specific Conditions</b>		
I	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. Continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm <sup>3</sup> . At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit	<p>Ambient air quality has been monitored at regular interval i.e. every two months by NABL accredited laboratory ITS Laboratory, Noida. Reports are analysed for PM10, PM2.5, SOx &amp; NOx. Accordingly necessary preventive steps are taken to reduce respirable suspended particulate matter in ambient air. <b>Ambient air quality monitoring report is enclosed as Annexure-III.</b></p> <p>Monitoring frequency of various environmental parameters and other suggested improvements are implemented at working site as and when instructed.</p> <p>ESPs have been installed to Sponge Iron kilns and boilers of CPP. Furnaces are equipped with bag filters. ESPs and Bag filters are designed to achieve Particulate Matter emission level below 50 mg/Nm<sup>3</sup>.</p> <p>We have installed the Online Emission Monitoring system and data transmission system in stacks as per CPCB guidelines. We keep a vigilant observation of the readings. In case of RSPM value higher than 50 mg/Nm<sup>3</sup>, alarm is raised and plant is stopped to take necessary corrective action. Data on ambient air quality and stack emission report has been submitted up to 30.09.2023 to the Regional Office, WBPCB. Soft copy of EC compliance report has been submitted to Regional Officer, Integrated Regional Office, Kolkata.</p>
ii	Electrostatic precipitator (ESP) shall be provided to WHRB and AFBC boilers. Fume extraction system with bag house shall be provided to electric arc furnace (EAF) and the exhaust gases shall be discharged through a stack of adequate height. Dust extraction system with bag filters shall be provided to ladle refining furnace (LRF). Fume extraction system with bag filters shall be provided to steel melting shop (SMS). Stack of	<p>Waste heat from DRI Kilns are channelized to Waste Heat Recovery Boiler (WHRB) to generate power from steam produced by the WHRB. To control the particulate emission from the stacks of DRI Kiln, boilers of CPP &amp; SMS, pollution control devices such as ESP's and bag filters have been installed. <b>Stack emission monitoring report is enclosed as Annexure-IV.</b></p> <p>There are 2 nos. of ESP's for the 2 nos. of WHRB boilers and 1 no. of ESP for the AFBC boiler. Two Fume Extraction system with hoods have been installed for the Induction Furnace and Electric Arc Furnace (EAF). Moreover 5 nos. of Dust extraction system with Bag</p>

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	adequate shall be provided to rolling mill to control the gaseous emissions within the permissible limit. Hot gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack. All the gaseous emissions shall be within 100 mg/Nm <sup>3</sup>	<p>filter is in place to control the dust level in DRI unit in strategic location.</p> <p>Dust settling chamber &amp; after burning chamber is provided respectively to arrest the coarse solids and CO to burn completely present in the hot flue gas coming from DRI kiln and is used in Waste heat recovery boiler (WHRB). The recovered heat is effectively being used for generation of power, thereby saving upon fossil fuel usage &amp; reduction of Carbon Footprint.</p>
iii	Data on ambient air quality stack emissions and fugitive emissions shall be uploaded on the Company's website and also regularly submitted on-line to the Ministry's Regional Office at Bhubaneswar, West Bengal Pollution Control Board (WBPCB) and Central Pollution Control Board (CPCB) as well as hard copy once in six months. Data on SPM, SO <sub>2</sub> and NO <sub>x</sub> shall also be displayed prominently outside the premises at the appropriate place for the information of general public.	<p>Environmental monitoring data of ambient air, stack and fugitive emissions are routinely uploaded on the company's website and soft copy of the same is submitted to Regional Officer, Integrated Regional Office, Kolkata.</p> <p>Data on the emissions are submitted to West Bengal Pollution Control Board (WBPCB) by hard copy once in every six months.</p> <p>The data of the emissions are displayed outside the Main gate for the information of general public.</p>

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iv	<p>Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored Guidelines/Code of Practice issued in this regard by the CPCB shall be followed. New Standards issued by the Ministry for the sponge iron plant in May, 2008 shall be followed.</p>	<p>Monitoring of Fugitive emissions is being done at various potential sources and the data reveals that PM10 ranges b/w 54.6 µg/m<sup>3</sup> – 57.4 µg/m<sup>3</sup>, near product house and near raw material handling yard, which is well within the prescribed standard. Although Fugitive air emission sources are identified and maintained properly to control the fugitive emissions at source itself,</p> <p>we ensure that preventive maintenance of all the potential sources are done on time to prevent the unwanted emissions. Dust extraction system at different unloading bunkers for the product and raw materials handling system has been installed. Bag filters have been provided at stock house, product house, magnetic product separator, cooler discharge area and transfer points to minimize fugitive dust emission.</p> <p><b><i>Fugitive emission monitoring report is enclosed as Annexure-V.</i></b></p> <p>Water sprinkling at 09 locations and Dry fog at 4 locations are being carried out to control fugitive dust emission. One number of water tanker is being utilized at the waste disposal area and on the road to control fugitive dust emission.</p>
v	<p>Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements should also be made to control dust emissions during loading and unloading of the raw material and finished product.</p>	<p>We ensure that all vehicles engaged to carry raw materials and finished products are having proper PUC certificate. This has also been ensured that all the transporting vehicles are properly covered with the tarpaulin to prevent any kind of spillage.</p> <p>We have vehicle mounted dust extractor to remove the spillage and dust generated due to vehicular movement inside plant premises. Water sprinkling is done on the road, material unloading area &amp; finished product loading area inside the plant to suppress the air borne dust.</p>
vi	<p>In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dust suppression &amp; extraction system with bag filters shall be installed at various dust generating points including raw material handling area and material transfer points. Bag filters shall be provided in coal stacking, reclaiming, crushing, and feeding and ESP dust handling areas to control fugitive dust in power plant.</p>	<p>Machinery and equipments engaged under operation are listed in preventive maintenance schedule. As per the schedule, maintenance is done to minimize the fugitive emission from all the vulnerable sources. Dust extraction systems are properly functioning at different unloading bunkers and other strategic locations. Bag filters have been provided at stock house, product house, cooler discharge area and transfer points to minimize dust emission. Good housekeeping practices have been followed to restrict any spillages inside plant premises.</p>
	<p>As proposed, total water requirement shall not exceed 103 m<sup>3</sup>/hr (existing 45 m<sup>3</sup>/hr &amp;</p>	<p>Water consumption is monitored through flow meters installed at inlet and all individual units which reveals that total consumption is as per the agreement signed</p>

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xi	<p>All the char from DRI plant shall be utilized in AFBC boiler of power plant and no char shall be disposed off anywhere else. AFBC boiler shall be installed simultaneously along with the DRI plant to ensure full utilization of char from the beginning. SMS slag should also be properly utilized. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner. Oily waste/lubricants shall be provided to authorized recyclers/ re-processors or properly disposed off as per the Hazardous Waste (Management &amp; Handling) Rules, 1989 and subsequent amendment</p>	<p>Char has not been disposed off outside plant premises. Char is generated as a by-product of DRI plant and is being fed to AFBC boiler of the Captive Power Plant. In addition to that we are procuring char from market because generated char is not enough to feed the Captive Power Plant.</p> <p>Slag coming out of SMS undergoes TCLP test and if found suitable then we utilize the same for filling the low lying area inside plant premises. Other solid wastes such as broken refractory mass &amp; crushed ladle are utilized in making spout of the furnace. In due course of time such material gets disintegrated &amp; ultimately disposed along with the slag for land filling purpose. Hazardous wastes such as used oil/lubes are collected and stored safely in earmarked location and subsequently disposed off to SPCB authorized vendor.</p>
xii	<p>No slag and fly ash shall be disposed off in abandoned Raniganj mining area without prior permission from the concerned authority and a commitment in this regard shall be submitted to the Ministry's Regional Office at Bhubaneswar, WBPCB and CPCB. All the slag from induction furnace/EAF/LRF shall be used for land filling inside the plant or used as building material only after passing through Toxic Chemical Leachability Potential (TCLP) test. Toxic slag shall be disposed in secured landfill as per CPCB guidelines. Otherwise, hazardous substances shall be recovered from the slag and output waste and be disposed in secured landfill as per CPCB guidelines.</p>	<p>We do not dispose off any of the slag and fly ash generated in abandoned Raniganj Mining Area where as we are utilizing fly ash for making composite bricks at Shyam Steel Industries Ltd, Bamunara and remaining fly ash is being sent to cement plant of Ultratech Cements as per the agreement.</p> <p>Apart from that slag coming out of furnaces of SMS are duly tested for Toxic Chemical Leachability Potential Test and if found suitable then utilized in filling the low lying area inside plant premises.</p> <p><b>Solid waste analysis report is enclosed as Annexure-VIII.</b></p>
xiii	<p>Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003. All the fly ash shall be provided to cement and brick manufacturers for further utilization and 'Memorandum of Understanding' shall be submitted to the Ministry's Regional Office at Bhubaneswar.</p>	<p>Fly ash is being utilized for making of composite bricks in Shyam Steel Industries Ltd, Bamunara and remaining ash is supplied to Ultratech Cements under 'Memorandum of Understanding' dated 05.05.2014.</p>

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xiv	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal to the Ministry's Regional Office at Bhubaneswar.	Solid wastes are being documented, collected, stored and utilized in best possible manner on daily basis. Dolochar is being used in AFBC boiler as fuel, Fly ash is utilized in composite brick manufacturing, slag is crushed and after recovery of iron given to brick manufacturers. We have already submitted a report containing the Solid Waste management plan and actions at our end to the Ministry's Regional Office at Bhubaneswar.
xv	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bhubaneswar, WBPCB and CPCB.	Wastes are segregated at source and accordingly stored in earmarked locations. Further non-toxic wastes such as cartons, woods and end cuts are sold to recyclers whereas hazardous wastes are tested for TCLP test and waste passing TCLP test are subsequently used for filling purpose of low-lying area. Hazardous wastes are kept separately as per the guidelines and further disposed off in environmentally friendly manner to authorised vendor
xvi	As proposed, green belt shall be developed in 6.6 acres (33 %) out of total 20 acres within and around the plant premises to mitigate the effects of fugitive emissions as per the CPCB guidelines in consultation with DFO	Green belt development is a prime requirement and is been carried out every year inside as well as outside factory premises. Three tier plantation is being developed inside factory premises. Plantation activity is carried out in proper consultation with local Forest Range Officer. The plantation has been raised comprising trees species like Chatim, Ashok, Bakul, kadam, Karanj, Neem etc.  <i>Tree plantation report is attached as Annexure- I</i>
xvii	All the recommendations made in the Charter in Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be implemented.	There are recommendations under CREP guidelines for solid & hazardous waste management, water conservation, Fugitive & stack emission monitoring and adoption of clean technologies. We have implemented recommendations at our Shyam Steel Industries Ltd.  <i>Status report of CREP recommendation is enclosed as Annexure-II.</i>
xviii	The company shall provide housing for 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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	The company is providing the necessary facilities to all contract labours engaged in activity inside plant premises such as washrooms, canteen, drinking water, medical care & creche.

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<b>B. General Conditions</b>		
i	The project authorities shall adhere to the stipulations made by the West Bengal Pollution Control Board (WBPCB) and the State Government.	We have obtained Consent to Operate (CTO) from WBPCB vide CTO No CO123387 dated 25.03.2022, valid till 31.03.2027. We have also obtained Hazardous waste authorization from WBPCB vide letter no 251/2S (HW)- 2881/2012. dated 23.12.2022 valid till 30.11.2027.
ii	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	We will abide by the condition and will obtain all the necessary pre requisites for any future modification / expansion of the unit from the MoEF&CC.
iii	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19 <sup>th</sup> May, 1993 and standards prescribed from time to time. The West Bengal Pollution Control Board (WBPCB) may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	Online stack monitoring system has been installed in stacks to monitor the emission level. If it exceeds the threshold value it raises the alarm for necessary corrective action.
iv	Ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the WBPCB. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality and shall be carried out regularly in consultation with WBPCB and data submitted to the CPCB and WBPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated time to time	Ambient air quality as well as ambient noise level is being monitored once in every two months by NABL accredited laboratory ITS Laboratory, Noida. Reports are analysed for PM10, PM2.5, SOx & NOx and necessary preventive steps are taken to reduce respirable suspended particulate matter in ambient air. We have also provided acoustic enclosures where ever it is possible to reduce exposure. Frequency of monitoring of various environmental parameters and other improvements are implemented as and when instructed.  ESPs have been installed to Sponge Iron kilns and boilers of CPP and furnaces are equipped with bag filters. ESPs and Bag filters are designed to achieve Particulate Matter emission level below 50 mg/Nm3. Data on ambient air quality and stack emission report has been submitted upto 30.09.2023 to the Regional Office, the Regional Office WBPCB. Soft copy of EC compliance report will be submitted to Regional Officer, Integrated Regional Office, Kolkata.
v	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under	Noise level monitoring is scheduled once in every two months in all the potential noise generation area. Accordingly we have provided noise control measures like acoustic hoods, silencers, sound proof enclosures on all sources of noise generations to keep the overall noise level in and around the plant area well within the prescribed standards. As a protective measure we provide ear plug to all our employees to relieve them of any discomfort due to noise. There is no area inside the plant with noise level

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	Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	above 85dB. <i>Noise level monitoring report is enclosed as Annexure-IX.</i>
vi	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	<p>Pre-placement and periodical medical examination of the workers &amp; contract labours engaged in the plant are being done and records maintained. We have well equipped first aid station with 24x7 ambulance facility to attend any emergency to our employees and contract labours. Total employee on company role is 874 &amp; on contract is 828.</p> <p>Personal protective equipment's are being provided to all workers respective to the nature of the job. Initial and periodical awareness training is being imparted to all workers in the Company's Vocational Training Centre located within the plant premises on Safety and Health Aspects.</p>
vii	All the environment management measures given in the EIA/EMP shall be implemented and complied with.	Environment management measures of EIA/EMP reports are duly complied and reviewed for its current status. In addition to that observations of inspecting authority relating to environment management is also taken care for the betterment of residing community & nature.
viii	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	We have constructed surface water harvesting structure wherein we have considered the maximum rainfall in last 20 Years to construct the suitable capacity of holding tank.
ix	Proper housekeeping shall be ensured	Mechanical sweeping machines are being used continuously for maintaining proper housekeeping inside plant premises. We are gradually adopting business excellence models to make our work environment for clean and safe working.
X	The company shall undertake eco-development measures including community welfare measures in the project area.	<p>The company has implemented community welfare measures at ground level to benefit nearby communities. Company has contributed in healthcare sector by providing monetary and logistic support as mobile healthcare vehicle with well qualified medical staff &amp; medicines, infrastructural development of hospitals by providing Air-conditioners and furniture items and actively participated in supply of food grains to the deprived community amidst covid pandemic.</p> <p>Massive plantation drive by providing saplings to nearby schools and carried out avenue plantation outside factory premises for ecological restoration of surrounding.</p>

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*[Signature]*  
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		<p>Apart from that all the necessary facilities which were previously provided or constructed are maintained properly so that community can utilize the same efficiently.</p> <p>Shyam Steel exclusively focuses on sanitation, drinking water facility, livelihood schemes, repair of village roads, building sports grounds, free distribution of books, helping in various religious activities &amp; environmental sustainability.</p>
xi	A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	<p>Environment management cell has been made and environmental manager has been appointed to manage the routine environmental activities under the guidance of factory manager.</p> <p>He has to ensure the environmental monitoring of various parameters, Analysis of monitoring reports, necessary corrective action at site and further submission of compliance report to various regulatory authorities.</p>
xii	As proposed, Rs 223.00 Lakhs and Rs. 44.5 Lakhs shall be earmarked towards the capital cost recurring cost/annum for environment pollution control measures and used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	Funds allocated for implementation of various environment pollution control measures and its maintenance are being utilized to fulfil the conditions stipulated by the Ministry as well as the State Pollution Control Board.
xiii	The Regional Office of this Ministry at Bhubaneswar /CPCB/WBPCB shall monitor the stipulated conditions. A six-monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	A soft copy of six monthly compliance report along with monitoring data is submitted on a regular basis to The Regional Officer, Integrated Regional Office, Kolkata. Apart from that hard copy of the same is also submitted to WBPCB.
xiv	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Will be complied.
xv	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the W.B. Pollution Control	The clearance letter informing that the project has been accorded Environment Clearance is advertised in two local newspapers namely "The Echo of India"(English Daily) dated. 17-06-2009 and "Arthik Lipi" (Bengali Daily) dated 17.06.2009.

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<p>Board and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Bhubaneswar.</p>	
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**Details of tree plantation report for the period October'23 - March'24**

<b>MINISTRY OF ENVIRONMENT AND FORESTS</b>		
<b>INTEGRATED REGIONAL OFFICE</b>		
<b>KOLKATA IB – 198, SECTOR-III, SALT LAKE CITY, KOLKATA – 700106</b>		
<b>FORMAT FOR PROVIDING PARTICULARS ON GREEN BELT/ PLANTATION</b>		
<b>UNDER F ( C ) ACT 1980 AND E ( P ) ACT 1986</b>		
<b>1</b>	<b>a) Name of Project:</b>	<b>SHYAM STEEL INDUSTRIES LIMITED</b>
	<b>b) Env't./ Forest Clearance Nos.:</b>	<b>F No. J-11011/97/2008- IA II (I) Date-08.06.2009</b>
<b>2</b>	<b>Location, Block/ Sub. Divn./ Dist./ State:</b>	Angadpur, Durgapur, Paschim Bardhaman, West Bengal
<b>3</b>	<b>Address of communication:</b>	Plot No. DH6/11, Premises No. 03-319, Action Area - 1D, New Town, District. North 24 Parganas, Kolkata – 700 156
<b>Existing vegetation in the area/ region:</b>		
<b>4</b>	<b>a) Species (trees/ shrubs/ grasses/ climbers):</b>	Trees
	<b>b) Major prevalent species of each type</b>	Bakul, Chatim, Ashok, Karanj, Kadam, Neem
<b>Land coverage by the project:</b>		
<b>5</b>	<b>a) Total area under the project:</b>	20 Acres Approx.
	<b>b) Area covered for basic infrastructure (roads/ building/ factory etc.):</b>	67%
<b>Details about natural vegetation:</b>		
<b>6</b>	<b>a) Name and number of plant of tree/ species felled:</b>	Nil
	<b>b) Name and number of plant species still available in the area:</b>	Not Available
	<b>c) By protecting the area will indigenous stock come up:</b>	Yes
	<b>d) Extent of greenbelt enveloped</b>	33%
<b>Plantations required to be carried out as per:</b>		

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7	a) Conditions of Environmental clearance in ha. / Nos.:		33%					
	b) Conditions for Forest Act © clearance in ha./ Nos.:							
	c) Voluntarily in ha./ nos.		33%					
8	<b>Details of plantation</b>							
	a) Total area available for plantation in each category:							
	i) Green Belt	ii)Dumps	iii) Back filled area	iv)Road side	V) Block plantation			
	Nil	Nil	Nil	2 RKM	1000 Sqm			
	b) Plantation details (category wise & methodology used)							
	Year of Plantation	Species Planted	Spacing	Height Attained	Total Area Covered	Area Still Available		
	2023	30 Saplings - Planted inside plant premises.	5- 6 Ft.	3 – 6 Ft.	0.1 Ha	Gap Filling		
		300 Saplings - Planted outside the plant premises.			-	Gap Filling		
		265 Saplings - Distributed to different social institutions and employees			-			
	c) Survival of Plantation							
	Year of Plantation	2017	2018	2019	2020	2021	2022	2023
	Total plantations (No.)	200	350	630	1850	950	1100	595
	Survival (No.)	146	350	630	1480	760	880	505
	Survival %	73	100	100	80	80	80	85

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9	Agency carrying out plantation and maintenance	: Self			
10	Financial details year wise /plantation wise / item wise				
	Sl. No.	Year	Fund allocated	Expenditure made	Average cost of each surviving plant in Rs.
	1	2019		420000	
	2	2020		560000	
	3	2021		480000	
	4	2022		500000	
	5	2023		400000	
11	Inspection of plantation by field experts and their comments and their comments and follow up actions		: Site visit at regular interval is done after plantation to for better survival of saplings.		
12	Remarks/ any other information		: Water sprinkling is frequently done to ensure proper growth of saplings.		

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## Annexure-2

**Compliance status of CREP recommendations for the period October'23 - March'24**

Sl. No.	CREP RECOMMENDATIONS	COMPLIANCE STATUS
CEMENT INDUSTRY		NA
1	Cement plants, which are not complying with notified standard, shall do the following to meet the standards; Augmentation of existing Air Pollution Control Devices- By July 2003 Replacement of existing Air Pollution Control Devices- By July 2004	
2	Cement plants located in critically polluted or urban areas (including 5 km distance outside urban boundary) will meet 100mg/Nm3 limit or particulate matter by December 2004 and continue working to reduce the emission of particulate matter to 50mg/Nm3.	
3	The new cement kilns to be accorded NOC/ Environmental Clearance w.e.f 01.04.2003 will meet the limit of 50 mg/Nm3 for particulate matter emissions.	
4	CPCB will evolve load based standards by December 2003	
5	CPCB and NCBM will evolve SO2 and NOx emission standards by June 2004	
6	The Cement industries will control fugitive emissions from all the raw material and products storage and transfer points by December 2003. However, the feasibility for the control of fugitive emissions from limestone and coal storage areas will be decided by the National Task Force (NTF). The BTF shall submit its recommendations within three months.	
7	CPCB, NCBM, BIS and Oil refineries will jointly prepare the policy on use of petroleum cokes as fuel in cement kiln by July 2003.	
8	After performance evaluation of various types of continuous monitoring equivalent and feedback from the industries and equipment manufacturers, NTF will decide feasible unit operations/ sections for installation of continuous monitoring equipment. The industry will install the continuous monitoring systems (CMS) by December 2003	
9	Tripping in Kiln ESP to be minimized by July 2003 as per the recommendations of NTF.	
10	Industries will submit the target date to enhance the utilization of waste material by April, 2003.	
11	NCBM will carry out a study on hazardous waste utilization in cement kiln by December 2003.	
12	Cement industries will carry out feasibility study and submit target dates to CPCB for co-generation of power by July 2003.	
*	Non complying units shall be given bank guarantee to respective SPCBs.	
INTEGRATED IRON & STEEL INDUSTRY		
1	COKE OVEN PLANTS- To meet the parameters PLD(% leaking coolers), PLL (% leaking lids), PLO (% leaking off take), of the notified standards under EPA within three years by December 2005). Industry will submit time bound action plan and PER Chart along with the Bank Guarantee for the implementation or the time. To rebuild at least 40% of the coke oven batteries in next 10 years (by December 2012).	NA
2	STEEL MELTING SHOP- Fugitive emissions- To reduce 30% by March 2004 and 100% by March 2008(including installation of secondary dedusting facilities).	Fugitive emission is under control with PCD
3	BLAST FURNACE- Direct inject of reducing agents----- by June 2013.	NA

SHYAM STEEL INDUSTRIES LTD.

  
 Sr. General Manager (Commercial)



4	<p><b>SOLID WASTE/ HAZARDOUS WASTE MANAGEMENT-</b> Utilisation of Steel Melting Shop (SMS)/ Blast Furnace (BF) slag as per the following schedule:</p> <ul style="list-style-type: none"> <li>* By 2004 - 70%</li> <li>* By 2006 - 80%</li> <li>* By 2007 - 100%</li> </ul> <p>Hazardous Waste- Charge of tar sludge/ ETP sludge to Coke Oven by June 2003. Inventorization of the Hazardous waste as per Hazardous Waste (M&amp;H), Rules, 1989 as amended in 2000 and implementation of the Rules by Dec, 2003. (Tar sludge, acid sludge, waste lubricating oil and type fuel falls in the category of Hazardous waste).</p>	Hazardous wastes are stored, transported and disposed off as per the Hazardous Waste Authorization granted.
5	<p><b>WATER CONSERVATION/ WATER POLLUTION-</b></p> <p>To reduce specific water consumption to 5 m3/t for long products and 8 m3/t for flat products by December 2005.</p>	We are maintaining water consumption within the limit.
6	Installation of Continuous stack monitoring system & its calibration in major stacks and setting up of the online ambient air quality monitoring stations by June 2005.	Online stack monitoring system is installed.
7	To operate the existing pollution control equipment efficiently and to keep proper record of run hours, failure time and efficiency with immediate effect. Compliance report in this regard be submitted to CPCB/ SPCB every three months.	Complied
8	To implement the recommendations of Life Cycle Assessment (LCA) study sponsored by MoEF by December 2003.	To be complied.
9	<p>The industry will initiate the steps to adopt the following clean technologies measures to improve the performance of industry towards production, energy land environment.</p> <ul style="list-style-type: none"> <li>- Energy recovery of top Blast Furnace (BF) gas.</li> <li>- Use of Tar- free runner linings.</li> <li>- De- dusting of Cast house at tap holes, runners, skimmers ladle and charging points.</li> <li>- Suppression of fugitive emissions using nitrogen gas or other inert gas.</li> <li>- To study the possibilities of slag and fly ash transportation back to the abandoned mines, to fill up the cavities through empty railway wagons while they return back to the mines and its implementation.</li> </ul> <ul style="list-style-type: none"> <li>- Procession of the waste containing flux &amp; ferrous wastes through waste recycling plant.</li> <li>- To implement rain water harvesting</li> <li>- Reduction Green House Gases by: <ul style="list-style-type: none"> <li>Reduction in power consumption</li> <li>Use of by- products gases for power generation</li> <li>Promotion of Energy Optimisation Technology including energy/ audit</li> </ul> </li> <li>- To set targets for resource conservation such as Raw material, energy and water consumption to match International Standards.</li> <li>- Up- gradation in the monitoring and analysis facilities for air and water pollution. Also to impart elaborate training to the manpower so that realistic data is obtained in the environmental monitoring laboratories.</li> <li>- To improve overall housekeeping.</li> </ul>	NA
10	<p><b>SPONGE IRON PLANTS</b></p> <p>Inventorisation of sponge iron plants to be completed by SPCBs/ CPCE by June 2003 and units will be asked to install proper air pollution control equipment by December 2003 to control primary and secondary emissions. As per rebuilding schedule submitted to CPCB/ MoEF.</p>	All required PCD are installed as per the guidelines of SPCB.

SHYAM STEEL INDUSTRIES LTD.

  
Sr. General Manager (Commercial)

**Ambient Air Quality report for the month of October'23 – March'24****ITS TESTING LABORATORY PRIVATE LIMITED**

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)

(An ISO 9001: 2015, ISO 14001:2015 &amp; ISO 45001:2018 Certified Laboratory)

Website: www.itslab.in, Email: itrlclab@gmail.com, info@itslab.in, contact@itslab.in

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**TEST REPORT****Ambient Air Quality Analysis**

Report Code: AAQ-070224-01

Issue Date: 12/02/2024

Issued To: **M/S. Shyam Steel Industries Ltd.**  
**Raturia Industrial Area, Angadpur, Durgapur- 713215,**  
**Paschim Bardhaman, West Bengal, India**

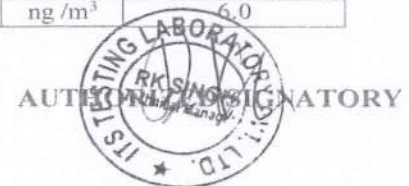
**SAMPLING & ANALYSIS DATA**

Sample Drawn By : ITS Representative  
 Date of Sampling : 05/02/2024 To 06/02/2024  
 Sample Description : Ambient Air  
 Sampling Location : Near Main Gate  
 Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/02  
 Analysis Duration : 07/02/2024 To 12/02/2024  
 Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
 Weather Condition : Clear

**TEST RESULT**

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	53.6	µg /m <sup>3</sup>	100
2.	Particulate Matter (PM <sub>2.5</sub> )	CPCB Volume - I / Gravimetric	35.6	µg /m <sup>3</sup>	60
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	16.6	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	28.5	µg /m <sup>3</sup>	80
5.	Ammonia (as NH <sub>3</sub> )	APHA-AIR402	45.6	µg /m <sup>3</sup>	400
6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.46	mg/m <sup>3</sup>	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m <sup>3</sup>	1.0
8.	Ozone ( as O <sub>3</sub> )	IS:5182 Part-IX	19.3	µg /m <sup>3</sup>	180
9.	Benzene ( as C <sub>6</sub> H <sub>6</sub> )	IS:5182 Part-XI	<1.0	µg /m <sup>3</sup>	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m <sup>3</sup>	1.0
02.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m <sup>3</sup>	20
02.	Arsenic ( as As)	APHA-AIR302	<1.0	ng /m <sup>3</sup>	6.0

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**Terms & Conditions :**

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3. Any complaints about the report should be communicated in writing within 7 days.
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# ITS TESTING LABORATORY (P) LTD.

Laboratory: A-114, Sector-80, Phase-II, Noida, Gautam Budh Nagar - 201305, (U.P.)  
An ISO 9001: 2015, ISO 14001: 2015, ISO 45001: 2018 Certified Laboratory  
Website: [www.itslab.in](http://www.itslab.in), Email: [itslaboratorypvtltd@gmail.com](mailto:itslaboratorypvtltd@gmail.com), [info@itslab.in](mailto:info@itslab.in),  
[contact@itslab.in](mailto:contact@itslab.in), [itrlab@gmail.com](mailto:itrlab@gmail.com)  
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## TEST REPORT

### Ambient Air Quality Analysis

Report Code: AAQ-071223-01

Issue Date: 12/12/2023

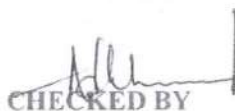
Issued To: **M/S. Shyam Steel Industries Ltd.**  
**Raturia Industrial Area, Angadpur, Durgapur- 713215,**  
**Paschim Bardhaman, West Bengal, India**

### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 05/12/2023 To 06/12/2023  
Sample Description : Ambient Air  
Sampling Location : Near Main Gate  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/12  
Analysis Duration : 07/12/2023 To 12/12/2023  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate  
Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	53.7	µg /m <sup>3</sup>	100
2.	Particulate Matter (PM <sub>2.5</sub> )	CPCB Volume - I / Gravimetric	35.7	µg /m <sup>3</sup>	60
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	16.8	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	28.5	µg /m <sup>3</sup>	80
5.	Ammonia (as NH <sub>3</sub> )	APHA-AIR402	45.6	µg /m <sup>3</sup>	400
6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.46	mg /m <sup>3</sup>	4.0
7.	Lead (as Pb)	IS:5182 Part-XXII	<1.0	µg /m <sup>3</sup>	1.0
8.	Ozone (as O <sub>3</sub> )	IS:5182 Part-IX	19.3	µg /m <sup>3</sup>	180
9.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS:5182 Part-XI	<1.0	µg /m <sup>3</sup>	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m <sup>3</sup>	1.0
12.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m <sup>3</sup>	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m <sup>3</sup>	6.0

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Website: www.itslab.in, Email: itrlclab@gmail.com, info@itslab.in, contact@itslab.in  
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## TEST REPORT

### Ambient Air Quality Analysis

Report Code: AAQ-070223-01

Issue Date: 11/11/2023

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 05/11/2023 To 06/11/2023  
Sample Description : Ambient Air  
Sampling Location : Near Main Gate  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/11  
Analysis Duration : 07/11/2023 To 11/11/2023  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate  
Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	55.2	µg /m <sup>3</sup>	100
2.	Particulate Matter (PM <sub>2.5</sub> )	CPCB Volume - I / Gravimetric	36.7	µg /m <sup>3</sup>	60
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	16.4	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	29.5	µg /m <sup>3</sup>	80
5.	Ammonia (as NH <sub>3</sub> )	APHA-AIR402	43.6	µg /m <sup>3</sup>	400
6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.47	mg/m <sup>3</sup>	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m <sup>3</sup>	1.0
8.	Ozone ( as O <sub>3</sub> )	IS:5182 Part-IX	18.3	µg /m <sup>3</sup>	180
9.	Benzene ( as C <sub>6</sub> H <sub>6</sub> )	IS:5182 Part-XI	<1.0	µg /m <sup>3</sup>	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m <sup>3</sup>	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m <sup>3</sup>	20
12.	Arsenic ( as As)	APHA-AIR302	<1.0	ng /m <sup>3</sup>	6.0

  
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Website: www.itslab.in, Email: itrlclab@gmail.com, info@itslab.in, contact@itslab.in

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## TEST REPORT

### Ambient Air Quality Analysis

Report Code: AAQ-090224-02

Issue Date: 13/02/2024

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

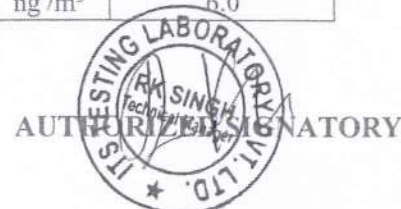
### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 07/02/2024 To 08/02/2024  
Sample Description : Ambient Air  
Sampling Location : CPP Area  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/02  
Analysis Duration : 09/02/2024 To 13/02/2024  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate  
Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	55.3	µg /m <sup>3</sup>	100
2.	Particulate Matter (PM <sub>2.5</sub> )	CPCB Volume – 1 / Gravimetric	33.3	µg /m <sup>3</sup>	60
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	14.6	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	27.6	µg /m <sup>3</sup>	80
5.	Ammonia (as NH <sub>3</sub> )	APHA-AIR402	38.4	µg /m <sup>3</sup>	400
6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.43	mg/m <sup>3</sup>	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m <sup>3</sup>	1.0
8.	Ozone ( as O <sub>3</sub> )	IS:5182 Part-IX	17.6	µg /m <sup>3</sup>	180
9.	Benzene ( as C <sub>6</sub> H <sub>6</sub> )	IS:5182 Part-XI	<1.0	µg /m <sup>3</sup>	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m <sup>3</sup>	1.0
02.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m <sup>3</sup>	20
02.	Arsenic ( as As)	APHA-AIR302	<1.0	ng /m <sup>3</sup>	6.0

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## TEST REPORT

### Ambient Air Quality Analysis

Report Code: AAQ-091223-02

Issue Date: 13/12/2023

Issued To: **M/S. Shyam Steel Industries Ltd.**  
**Raturia Industrial Area, Angadpur, Durgapur- 713215,**  
**Paschim Bardhaman, West Bengal, India**

### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 07/12/2023 To 08/12/2023  
Sample Description : Ambient Air  
Sampling Location : **CPP Area**  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/12  
Analysis Duration : 09/12/2023 To 13/12/2023  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate  
Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	55.1	µg /m <sup>3</sup>	100
2.	Particulate Matter (PM <sub>2.5</sub> )	CPCB Volume - 1 / Gravimetric	33.2	µg /m <sup>3</sup>	60
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	14.7	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	27.7	µg /m <sup>3</sup>	80
5.	Ammonia (as NH <sub>3</sub> )	APHA-AIR402	38.4	µg /m <sup>3</sup>	400
6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.43	mg/m <sup>3</sup>	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m <sup>3</sup>	1.0
8.	Ozone ( as O <sub>3</sub> )	IS:5182 Part-IX	17.7	µg /m <sup>3</sup>	180
9.	Benzene ( as C <sub>6</sub> H <sub>6</sub> )	IS:5182 Part-XI	<1.0	µg /m <sup>3</sup>	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m <sup>3</sup>	1.0
12.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m <sup>3</sup>	20
12.	Arsenic ( as As)	APHA-AIR302	<1.0	ng /m <sup>3</sup>	6.0

  
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## TEST REPORT

### Ambient Air Quality Analysis

Report Code: AAQ-090223-02

Issue Date: 13/11/2023

Issued To:

M/S. Shyam Steel Industries Ltd.

Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 07/11/2023 To 11/11/2023  
Sample Description : Ambient Air  
Sampling Location : CPP Area  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/11  
Analysis Duration : 09/11/2023 To 13/11/2023  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate  
Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	54.3	µg /m <sup>3</sup>	100
2.	Particulate Matter (PM <sub>2.5</sub> )	CPCB Volume - I / Gravimetric	34.2	µg /m <sup>3</sup>	60
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	15.0	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	27.4	µg /m <sup>3</sup>	80
5.	Ammonia (as NH <sub>3</sub> )	APHA-AIR402	36.4	µg /m <sup>3</sup>	400
6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.44	mg/m <sup>3</sup>	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m <sup>3</sup>	1.0
8.	Ozone ( as O <sub>3</sub> )	IS:5182 Part-IX	15.7	µg /m <sup>3</sup>	180
9.	Benzene ( as C <sub>6</sub> H <sub>6</sub> )	IS:5182 Part-XI	<1.0	µg /m <sup>3</sup>	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m <sup>3</sup>	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m <sup>3</sup>	20
12.	Arsenic ( as As)	APHA-AIR302	<1.0	ng /m <sup>3</sup>	6.0

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## TEST REPORT

### Ambient Air Quality Analysis

Report Code: AAQ-040224-03

Issue Date: 10/02/2024

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 02/02/2024 To 03/02/2024  
Sample Description : Ambient Air  
Sampling Location : DRI Area  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/02  
Analysis Duration : 04/02/2024 To 10/02/2024  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	56.3	µg /m <sup>3</sup>	100
2.	Particulate Matter (PM <sub>2.5</sub> )	CPCB Volume - I / Gravimetric	29.3	µg /m <sup>3</sup>	60
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	14.6	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	30.6	µg /m <sup>3</sup>	80
5.	Ammonia (as NH <sub>3</sub> )	APHA-AIR402	42.8	µg /m <sup>3</sup>	400
6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.55	mg/m <sup>3</sup>	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m <sup>3</sup>	1.0
8.	Ozone ( as O <sub>3</sub> )	IS:5182 Part-IX	14.6	µg /m <sup>3</sup>	180
9.	Benzene ( as C <sub>6</sub> H <sub>6</sub> )	IS:5182 Part-XI	<1.0	µg /m <sup>3</sup>	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m <sup>3</sup>	1.0
02.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m <sup>3</sup>	20
02.	Arsenic ( as As)	APHA-AIR302	<1.0	ng /m <sup>3</sup>	6.0

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# ITS TESTING LABORATORY PRIVATE LIMITED

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)

(An ISO 9001: 2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory)

Website: www.itslab.in, Email: itrlclab@gmail.com, info@itslab.in, contact@itslab.in

+91 9911659800, 9305780312, 09958849764

## TEST REPORT

### Ambient Air Quality Analysis

Report Code: AAQ-141223-03

Issue Date: 17/12/2023

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 12/12/2023 To 13/2023  
Sample Description : Ambient Air  
Sampling Location : DRI Area  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/12  
Analysis Duration : 14/12/2023 To 17/12/2023  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate  
Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	56.2	µg /m <sup>3</sup>	100
2.	Particulate Matter (PM <sub>2.5</sub> )	CPCB Volume - 1 / Gravimetric	29.3	µg /m <sup>3</sup>	60
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	14.6	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	30.7	µg /m <sup>3</sup>	80
5.	Ammonia (as NH <sub>3</sub> )	APHA-AIR402	42.8	µg /m <sup>3</sup>	400
6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.55	mg/m <sup>3</sup>	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m <sup>3</sup>	1.0
8.	Ozone ( as O <sub>3</sub> )	IS:5182 Part-IX	14.6	µg /m <sup>3</sup>	180
9.	Benzene ( as C <sub>6</sub> H <sub>6</sub> )	IS:5182 Part-XI	<1.0	µg /m <sup>3</sup>	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m <sup>3</sup>	1.0
12.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m <sup>3</sup>	20
12.	Arsenic ( as As)	APHA-AIR302	<1.0	ng /m <sup>3</sup>	6.0

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## TEST REPORT

### Ambient Air Quality Analysis

Report Code: AAQ-120223-03

Issue Date: 14/11/2023

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 11/11/2023 To 09/11/2023  
Sample Description : Ambient Air  
Sampling Location : DRI Area  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/11  
Analysis Duration : 11/11/2023 To 15/11/2023  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate  
Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	57.1	µg /m <sup>3</sup>	100
2.	Particulate Matter (PM <sub>2.5</sub> )	CPCB Volume - I / Gravimetric	30.4	µg /m <sup>3</sup>	60
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	14.5	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	31.6	µg /m <sup>3</sup>	80
5.	Ammonia (as NH <sub>3</sub> )	APHA-AIR402	39.7	µg /m <sup>3</sup>	400
6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.55	mg/m <sup>3</sup>	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m <sup>3</sup>	1.0
8.	Ozone ( as O <sub>3</sub> )	IS:5182 Part-IX	14.4	µg /m <sup>3</sup>	180
9.	Benzene ( as C <sub>6</sub> H <sub>6</sub> )	IS:5182 Part-XI	<1.0	µg /m <sup>3</sup>	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m <sup>3</sup>	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m <sup>3</sup>	20
12.	Arsenic ( as As)	APHA-AIR302	<1.0	ng /m <sup>3</sup>	6.0

  
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#### Terms & Conditions :

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## TEST REPORT

### Ambient Air Quality Analysis

Report Code: AAQ-090224-04

Issue Date: 13/02/2024

Issued To:

M/S. Shyam Steel Industries Ltd.

Raturia Industrial Area, Angadpur, Durgapur- 713215,

Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 06/02/2024 To 07/02/2024  
Sample Description : Ambient Air  
Sampling Location : RM Area  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/02  
Analysis Duration : 09/02/2024 To 13/02/2024  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

## TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	53.5	µg /m <sup>3</sup>	100
2.	Particulate Matter (PM <sub>2.5</sub> )	CPCB Volume - I / Gravimetric	28.6	µg /m <sup>3</sup>	60
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	16.8	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	26.3	µg /m <sup>3</sup>	80
5.	Ammonia (as NH <sub>3</sub> )	APHA-AIR402	43.6	µg /m <sup>3</sup>	400
6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.50	mg/m <sup>3</sup>	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m <sup>3</sup>	1.0
8.	Ozone ( as O <sub>3</sub> )	IS:5182 Part-IX	16.9	µg /m <sup>3</sup>	180
9.	Benzene ( as C <sub>6</sub> H <sub>6</sub> )	IS:5182 Part-XI	<1.0	µg /m <sup>3</sup>	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m <sup>3</sup>	1.0
02.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m <sup>3</sup>	20
02.	Arsenic ( as As)	APHA-AIR302	<1.0	ng /m <sup>3</sup>	6.0

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## TEST REPORT

### Ambient Air Quality Analysis

Report Code: AAQ-091223-04

Issue Date: 13/12/2023

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 06/12/2023 To 07/12/2023  
Sample Description : Ambient Air  
Sampling Location : RM Area  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/12  
Analysis Duration : 09/12/2023 To 13/12/2023  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate  
Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	53.5	µg /m <sup>3</sup>	100
2.	Particulate Matter (PM <sub>2.5</sub> )	CPCB Volume - I / Gravimetric	28.7	µg /m <sup>3</sup>	60
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	16.8	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	26.2	µg /m <sup>3</sup>	80
5.	Ammonia (as NH <sub>3</sub> )	APHA-AIR402	43.7	µg /m <sup>3</sup>	400
6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.50	mg /m <sup>3</sup>	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m <sup>3</sup>	1.0
8.	Ozone ( as O <sub>3</sub> )	IS:5182 Part-IX	16.9	µg /m <sup>3</sup>	180
9.	Benzene ( as C <sub>6</sub> H <sub>6</sub> )	IS:5182 Part-XI	<1.0	µg /m <sup>3</sup>	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m <sup>3</sup>	1.0
12.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m <sup>3</sup>	20
12.	Arsenic ( as As)	APHA-AIR302	<1.0	ng /m <sup>3</sup>	6.0

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## TEST REPORT

### Ambient Air Quality Analysis

Report Code: AAQ-090223-04

Issue Date: 11/11/2023

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 06/11/2023 To 07/11/2023  
Sample Description : Ambient Air  
Sampling Location : RM Area  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/11  
Analysis Duration : 09/11/2023 To 13/11/2023  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate  
Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	53.4	µg /m <sup>3</sup>	100
2.	Particulate Matter (PM <sub>2.5</sub> )	CPCB Volume - 1 / Gravimetric	27.6	µg /m <sup>3</sup>	60
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	14.8	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	26.3	µg /m <sup>3</sup>	80
5.	Ammonia (as NH <sub>3</sub> )	APHA-AIR402	40.7	µg /m <sup>3</sup>	400
6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.50	mg/m <sup>3</sup>	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m <sup>3</sup>	1.0
8.	Ozone ( as O <sub>3</sub> )	IS:5182 Part-IX	15.7	µg /m <sup>3</sup>	180
9.	Benzene ( as C <sub>6</sub> H <sub>6</sub> )	IS:5182 Part-XI	<1.0	µg /m <sup>3</sup>	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m <sup>3</sup>	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m <sup>3</sup>	20
12.	Arsenic ( as As)	APHA-AIR302	<1.0	ng /m <sup>3</sup>	6.0

  
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## TEST REPORT

### Ambient Air Quality Analysis

Report Code: AAQ-110224-05

Issue Date: 15/02/2024

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 09/02/2024 To 10/02/2024  
Sample Description : Ambient Air  
Sampling Location : SMS Area  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/02  
Analysis Duration : 11/02/2024 To 15/02/2024  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate  
Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	58.6	µg /m <sup>3</sup>	100
2.	Particulate Matter (PM <sub>2.5</sub> )	CPCB Volume – 1 / Gravimetric	30.6	µg /m <sup>3</sup>	60
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	14.3	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	29.6	µg /m <sup>3</sup>	80
5.	Ammonia (as NH <sub>3</sub> )	APHA-AIR402	45.9	µg /m <sup>3</sup>	400
6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.41	mg/m <sup>3</sup>	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m <sup>3</sup>	1.0
8.	Ozone ( as O <sub>3</sub> )	IS:5182 Part-IX	17.3	µg /m <sup>3</sup>	180
9.	Benzene ( as C <sub>6</sub> H <sub>6</sub> )	IS:5182 Part-XI	<1.0	µg /m <sup>3</sup>	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m <sup>3</sup>	1.0
02.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m <sup>3</sup>	20
02.	Arsenic ( as As)	APHA-AIR302	<1.0	ng /m <sup>3</sup>	6.0

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## TEST REPORT

### Ambient Air Quality Analysis

Report Code: AAQ-121223-05

Issue Date: 15/12/2023

Issued To: **M/S. Shyam Steel Industries Ltd.**  
**Raturia Industrial Area, Angadpur, Durgapur- 713215,**  
**Paschim Bardhaman, West Bengal, India**

### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 09/12/2023 To 10/12/2023  
Sample Description : Ambient Air  
Sampling Location : SMS Area  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/12  
Analysis Duration : 12/12/2023 To 15/12/2023  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate  
Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	58.7	µg /m <sup>3</sup>	100
2.	Particulate Matter (PM <sub>2.5</sub> )	CPCB Volume - 1 / Gravimetric	30.7	µg /m <sup>3</sup>	60
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	14.3	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	29.7	µg /m <sup>3</sup>	80
5.	Ammonia (as NH <sub>3</sub> )	APHA-AIR402	45.9	µg /m <sup>3</sup>	400
6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.41	mg/m <sup>3</sup>	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m <sup>3</sup>	1.0
8.	Ozone ( as O <sub>3</sub> )	IS:5182 Part-IX	17.2	µg /m <sup>3</sup>	180
9.	Benzene ( as C <sub>6</sub> H <sub>6</sub> )	IS:5182 Part-XI	<1.0	µg /m <sup>3</sup>	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m <sup>3</sup>	1.0
12.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m <sup>3</sup>	20
12.	Arsenic ( as As)	APHA-AIR302	<1.0	ng /m <sup>3</sup>	6.0

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AUTHORIZED SIGNATORY 

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## TEST REPORT

### Ambient Air Quality Analysis

Report Code: AAQ-I20223-05

Issue Date: 15/11/2023

Issued To: **M/S. Shyam Steel Industries Ltd.**  
**Raturia Industrial Area, Angadpur, Durgapur- 713215,**  
**Paschim Bardhaman, West Bengal, India**

### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 09/11/2023 To 10/11/2023  
Sample Description : Ambient Air  
Sampling Location : SMS Area  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/11  
Analysis Duration : 11/11/2023 To 15/11/2023  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate  
Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	56.6	µg/m <sup>3</sup>	100
2.	Particulate Matter (PM <sub>2.5</sub> )	CPCB Volume - I / Gravimetric	31.7	µg/m <sup>3</sup>	60
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	14.1	µg/m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	28.7	µg/m <sup>3</sup>	80
5.	Ammonia (as NH <sub>3</sub> )	APHA-AIR402	42.9	µg/m <sup>3</sup>	400
6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.41	mg/m <sup>3</sup>	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg/m <sup>3</sup>	1.0
8.	Ozone ( as O <sub>3</sub> )	IS:5182 Part-IX	16.0	µg/m <sup>3</sup>	180
9.	Benzene ( as C <sub>6</sub> H <sub>6</sub> )	IS:5182 Part-XI	<1.0	µg/m <sup>3</sup>	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng/m <sup>3</sup>	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng/m <sup>3</sup>	20
12.	Arsenic ( as As)	APHA-AIR302	<1.0	ng/m <sup>3</sup>	6.0

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AUTHORIZED SIGNATORY

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**Stack Emission Quality report for the month of October'23 – March'24****ITS TESTING LABORATORY PRIVATE LIMITED**

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)

(An ISO 9001: 2015, ISO 14001:2015 &amp; ISO 45001:2018 Certified Laboratory)

Website: www.itslab.in, Email: itrlclab@gmail.com, info@itslab.in, contact@itslab.in

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**TEST REPORT****Stack Emission Analysis**

Report Code: SE-070224-010

Issue Date: 12/02/2024

Issued To:

M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

**SAMPLING & ANALYSIS DATA**

Sample Drawn on : 05/02/2024  
 Sample Drawn By : ITS Representative  
 Sample Description : Stack Emission  
 Sampling Time : 60 Minutes  
 Sampling Plan & Procedure : SOP/SE/09  
 Analysis Duration : 07/02/2024 To 12/02/2024  
 Ambient Temperature (°C) : 28.0  
 Stack Temperature (°C) : 88.0  
 Source of Emission : Stack Attached to Cooler Discharge  
 Type of Fuel used : Coal  
 Operating Load : Normal  
 Type of Stack : Metal Circular  
 Stack Height from Ground Level (meter) : 24.0  
 Average Velocity of Flue Emission (m/s) : 9.3  
 Quantity of Emission Discharged (m<sup>3</sup>/hr) : 7518.34

**TEST RESULT**

S.N.	Parameter	Test Method	Results	Units	Specification / Limit (As Per CPCB Norms)
1.	Particulate Matter (PM)	IS:02255(Part-I )	42.8	mg/Nm <sup>3</sup>	-
4	Carbon Monoxide (CO)	IS:13270	0.34	% by Vol.	1% By Volume
5	Carbon Dioxide (CO <sub>2</sub> )	IS:13270	0.9	% by Vol.	Not Specified

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## TEST REPORT

### Stack Emission Analysis

Report Code: SE-071223-01

Issue Date: 12/12/2023

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn on : 05/12/2023  
Sample Drawn By : ITS Representative  
Sample Description : Stack Emission  
Sampling Time : 60 Minutes  
Sampling Plan & Procedure : SOP/SE/09  
Analysis Duration : 07/12/2023 To 12/12/2023  
Ambient Temperature (°C) : 28.0  
Stack Temperature (°C) : 88.0  
Source of Emission : Stack Attached to Cooler Discharge  
Type of Fuel used : Coal  
Operating Load : Normal  
Type of Stack : Metal Circular  
Stack Height from Ground Level (meter) : 24.0  
Average Velocity of Flue Emission (m/s) : 9.2  
Quantity of Emission Discharged (m<sup>3</sup>/hr) : 7518.24

### TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Specification / Limit (As Per CPCB Norms)
1.	Particulate Matter (PM)	IS:12255(Part-1 )	42.8	mg/Nm <sup>3</sup>	-
4	Carbon Monoxide (CO)	IS:13270	0.23	% by Vol.	1% By Volume
5	Carbon Dioxide (CO <sub>2</sub> )	IS:13270	0.9	% by Vol.	Not Specified

  
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## TEST REPORT

### Stack Emission Analysis

Report Code: SE-070223-01

Issue Date: 11/11/2023

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn on : 05/11/2023  
Sample Drawn By : ITS Representative  
Sample Description : Stack Emission  
Sampling Time : 60 Minutes  
Sampling Plan & Procedure : SOP/SE/09  
Analysis Duration : 07/11/2023 To 11/11/2023  
Ambient Temperature (°C) : 28.0  
Stack Temperature (°C) : 88.0  
Source of Emission : Stack Attached to Cooler Discharge  
Type of Fuel used : Coal  
Operating Load : Normal  
Type of Stack : Metal Circular  
Stack Height from Ground Level (meter) : 24.0  
Average Velocity of Flue Emission (m/s) : 9.2  
Quantity of Emission Discharged (m<sup>3</sup>/hr) : 7518.24

### TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Specification / Limit (As Per CPCB Norms)
1.	Particulate Matter (PM)	IS:11255(Part-I)	42.7	mg/Nm <sup>3</sup>	-
4	Carbon Monoxide (CO)	IS:13270	0.24	% by Vol.	1% By Volume
5	Carbon Dioxide (CO <sub>2</sub> )	IS:13270	0.9	% by Vol.	Not Specified

  
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## TEST REPORT

### Stack Emission Analysis

Report Code: SE-070224-011

Issue Date: 12/02/2024

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn on : 06/02/2024  
Sample Drawn By : ITS Representative  
Sample Description : Stack Emission  
Sampling Time : 60 Minutes  
Sampling Plan & Procedure : SOP/SE/09  
Analysis Duration : 07/02/2024 To 12/02/2024  
Ambient Temperature (°C) : 28.0  
Stack Temperature (°C) : 209.0  
Source of Emission : Stack Attached to CPP  
Type of Fuel used : Coal  
Operating Load : Normal  
Type of Stack : Circular  
Stack Height from Ground Level (meter) : 69.0  
Average Velocity of Flue Emission (m/s) : 8.3  
Quantity of Emission Discharged (m<sup>3</sup>/hr) : 024918.65

### TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Specification / Limit (As Per CPCB Norms)
1.	Particulate Matter (PM)	IS:02255(Part-1)	58.5	mg/Nm <sup>3</sup>	-
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS:02255(Part-2)	19.4	mg/Nm <sup>3</sup>	-
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS:02255(Part-7)	29.6	mg/Nm <sup>3</sup>	Not Specified
4	Carbon Dioxide (CO <sub>2</sub> )	IS:13270	10.6	% by Vol.	Not Specified
5	O <sub>2</sub>	IS:13270	9.6	% by Vol.	

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## TEST REPORT

### Stack Emission Analysis

Report Code: SE-081223-02

Issue Date: 12/12/2023

Issued To: **M/S. Shyam Steel Industries Ltd.**  
**Raturia Industrial Area, Angadpur, Durgapur- 713215,**  
**Paschim Bardhaman, West Bengal, India**

### SAMPLING & ANALYSIS DATA

Sample Drawn on : 06/12/2023  
Sample Drawn By : ITS Representative  
Sample Description : Stack Emission  
Sampling Time : 60 Minutes  
Sampling Plan & Procedure : SOP/SE/09  
Analysis Duration : 08/12/2023 To 12/12/2023  
Ambient Temperature (°C) : 28.0  
Stack Temperature (°C) : 209.0  
Source of Emission : **Stack Attached to CPP**  
Type of Fuel used : Coal  
Operating Load : Normal  
Type of Stack : Circular  
Stack Height from Ground Level (meter) : 69.0  
Average Velocity of Flue Emission (m/s) : 8.2  
Quantity of Emission Discharged (m<sup>3</sup>/hr) : 123918.75

### TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Specification / Limit (As Per CPCB Norms)
1.	Particulate Matter (PM)	IS:12255(Part-1)	58.5	mg/Nm <sup>3</sup>	-
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS:12255(Part-2)	19.4	mg/Nm <sup>3</sup>	-
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS:12255(Part-7)	29.7	mg/Nm <sup>3</sup>	Not Specified
4.	Carbon Dioxide (CO <sub>2</sub> )	IS:13270	10.6	% by Vol.	Not Specified
5.	O <sub>2</sub>	IS:13270	9.6	% by Vol.	

  
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## TEST REPORT

### Stack Emission Analysis

Report Code: SE-I10223-02

Issue Date: 11/11/2023

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn on : 06/11/2023  
Sample Drawn By : ITS Representative  
Sample Description : Stack Emission  
Sampling Time : 60 Minutes  
Sampling Plan & Procedure : SOP/SE/09  
Analysis Duration : 11/11/2023 To 11/11/2023  
Ambient Temperature (°C) : 28.0  
Stack Temperature (°C) : 209.0  
Source of Emission : Stack Attached to CPP  
Type of Fuel used : Coal  
Operating Load : Normal  
Type of Stack : Circular  
Stack Height from Ground Level (meter) : 69.0  
Average Velocity of Flue Emission (m/s) : 8.2  
Quantity of Emission Discharged (m<sup>3</sup>/hr) : 123918.75

### TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Specification / Limit (As Per CPCB Norms)
1.	Particulate Matter (PM)	IS:11255(Part-1)	58.3	mg/Nm <sup>3</sup>	-
2.	Sulphur Dioxide (SO <sub>2</sub> )	IS:11255(Part-2)	18.4	mg/Nm <sup>3</sup>	-
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS:11255(Part-7)	29.8	mg/Nm <sup>3</sup>	Not Specified
4.	Carbon Dioxide (CO <sub>2</sub> )	IS:13270	10.4	% by Vol.	Not Specified
5.	O <sub>2</sub>	IS:13270	9.6	% by Vol.	

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## TEST REPORT

### Stack Emission Analysis

Report Code: SE-070224-012

Issue Date: 12/02/2024

Issued To:

M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn on : 06/02/2024  
Sample Drawn By : ITS Representative  
Sample Description : Stack Emission  
Sampling Time : 60 Minutes  
Sampling Plan & Procedure : SOP/SE/09  
Analysis Duration : 07/02/2024 To 12/02/2024  
Ambient Temperature (°C) : 28.0  
Stack Temperature (°C) : 022.0  
Source of Emission : Stack Attached to Induction Furnace  
Type of Fuel used : Electricity  
Operating Load : Normal  
Type of Stack : Metal Circular  
Stack Height from Ground Level (meter) : 24.0  
Average Velocity of Flue Emission (m/s) : 9.8  
Quantity of Emission Discharged (m<sup>3</sup>/hr) : 38437.39

### TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Specification / Limit (As Per CPCB Norms)
1.	Particulate Matter (PM)	IS:02255(Part-1 )	14.3	mg/Nm <sup>3</sup>	-
2	Carbon Monoxide (CO)	IS:13270	0.07	% by Vol.	1% By Volume

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## TEST REPORT

### Stack Emission Analysis

Report Code: SE-121223-03

Issue Date: 12/12/2023

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn on : 06/12/2023  
Sample Drawn By : ITS Representative  
Sample Description : Stack Emission  
Sampling Time : 60 Minutes  
Sampling Plan & Procedure : SOP/SE/09  
Analysis Duration : 08/12/2023 To 12/12/2023  
Ambient Temperature (°C) : 28.0  
Stack Temperature (°C) : 122.0  
Source of Emission : Stack Attached to Induction Furnace  
Type of Fuel used : Electricity  
Operating Load : Normal  
Type of Stack : Metal Circular  
Stack Height from Ground Level (meter) : 24.0  
Average Velocity of Flue Emission (m/s) : 9.8  
Quantity of Emission Discharged (m<sup>3</sup>/hr) : 38437.29

### TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Specification / Limit (As Per CPCB Norms)
1.	Particulate Matter (PM)	IS:12255(Part-1 )	14.3	mg/Nm <sup>3</sup>	-
2	Carbon Monoxide (CO)	IS:13270	0.07	% by Vol.	1% By Volume

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## TEST REPORT

### Stack Emission Analysis

Report Code: SE-110223-03

Issue Date: 11/11/2023

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

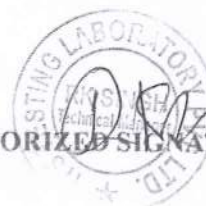
Sample Drawn on : 06/11/2023  
Sample Drawn By : ITS Representative  
Sample Description : Stack Emission  
Sampling Time : 60 Minutes  
Sampling Plan & Procedure : SOP/SE/09  
Analysis Duration : 11/11/2023 To 11/11/2023  
Ambient Temperature (°C) : 28.0  
Stack Temperature (°C) : 112.0  
Source of Emission : Stack Attached to Induction Furnace  
Type of Fuel used : Electricity  
Operating Load : Normal  
Type of Stack : Metal Circular  
Stack Height from Ground Level (meter) : 24.0  
Average Velocity of Flue Emission (m/s) : 9.8  
Quantity of Emission Discharged (m<sup>3</sup>/hr) : 38437.29

### TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Specification / Limit (As Per CPCB Norms)
1.	Particulate Matter (PM)	IS:11255(Part-I )	14.6	mg/Nm <sup>3</sup>	-
2	Carbon Monoxide (CO)	IS:13270	0.07	% by Vol.	1% By Volume

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## TEST REPORT

### Stack Emission Analysis

Report Code: SE-090224-013

Issue Date: 13/02/2024

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn on : 07/02/2024  
Sample Drawn By : ITS Representative  
Sample Description : Stack Emission  
Sampling Time : 60 Minutes  
Sampling Plan & Procedure : SOP/SE/09  
Analysis Duration : 09/02/2024 To 13/02/2024  
Ambient Temperature (°C) : 28.0  
Stack Temperature (°C) : 109.0  
Source of Emission : Stack Attached to Rotary Kiln  
Type of Fuel used : Coal  
Operating Load : Normal  
Type of Stack : Circular  
Stack Height from Ground Level (meter) : 39.0  
Average Velocity of Flue Emission (m/s) : 8.0  
Quantity of Emission Discharged (m<sup>3</sup>/hr) : 6971.35

### TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Specification / Limit (As Per CPCB Norms)
1.	Particulate Matter (PM)	IS:02255(Part-I )	40.3	mg/Nm <sup>3</sup>	-
2	Carbon Monoxide (CO)	IS:13270	0.35	% by Vol.	1% By Volume
3	Carbon Dioxide (CO <sub>2</sub> )	IS:13270	10.3	% by Vol.	Not Specified
4	O <sub>2</sub>	IS:13270	9.6	% by Vol.	

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## TEST REPORT

### Stack Emission Analysis

Report Code: SE-091223-04

Issue Date: 13/12/2023

Issued To: **M/S. Shyam Steel Industries Ltd.**  
**Raturia Industrial Area, Angadpur, Durgapur- 713215,**  
**Paschim Bardhaman, West Bengal, India**

### SAMPLING & ANALYSIS DATA

Sample Drawn on : 07/12/2023  
Sample Drawn By : ITS Representative  
Sample Description : Stack Emission  
Sampling Time : 60 Minutes  
Sampling Plan & Procedure : SOP/SE/09  
Analysis Duration : 09/12/2023 To 13/12/2023  
Ambient Temperature (°C) : 28.0  
Stack Temperature (°C) : 109.0  
Source of Emission : Stack Attached to Rotary Kiln  
Type of Fuel used : Coal  
Operating Load : Normal  
Type of Stack : Circular  
Stack Height from Ground Level (meter) : 39.0  
Average Velocity of Flue Emission (m/s) : 8.0  
Quantity of Emission Discharged (m<sup>3</sup>/hr) : 6971.35

### TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Specification / Limit (As Per CPCB Norms)
1.	Particulate Matter (PM)	IS:12255(Part-1 )	40.3	mg/Nm <sup>3</sup>	-
2	Carbon Monoxide (CO)	IS:13270	0.25	% by Vol.	1% By Volume
3	Carbon Dioxide (CO <sub>2</sub> )	IS:13270	10.2	% by Vol.	Not Specified
4	O <sub>2</sub>	IS:13270	9.6	% by Vol.	

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#### Terms & Conditions :

1. Test reports are valid only for the samples tested in our laboratory. 2. Samples will destroyed as per quality policy.
3. Any complaints about the report should be communicated in writing within 7 days.
4. Total liability of our laboratory is limited to invoiced amount.



# ITS TESTING LABORATORY PRIVATE LIMITED

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)  
(An ISO 9001: 2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory)  
Website: [www.itslab.in](http://www.itslab.in), Email: [itrlclab@gmail.com](mailto:itrlclab@gmail.com), [info@itslab.in](mailto:info@itslab.in), [contact@itslab.in](mailto:contact@itslab.in)  
+91 9911659800, 9305780312, 09958849764

## TEST REPORT

### Stack Emission Analysis

Report Code: SE-090223-04

Issue Date: 13/11/2023

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn on : 07/11/2023  
Sample Drawn By : ITS Representative  
Sample Description : Stack Emission  
Sampling Time : 60 Minutes  
Sampling Plan & Procedure : SOP/SE/09  
Analysis Duration : 09/11/2023 To 13/11/2023  
Ambient Temperature (°C) : 28.0  
Stack Temperature (°C) : 109.0  
Source of Emission : Stack Attached to Rotary Kiln  
Type of Fuel used : Coal  
Operating Load : Normal  
Type of Stack : Circular  
Stack Height from Ground Level (meter) : 39.0  
Average Velocity of Flue Emission (m/s) : 8.0  
Quantity of Emission Discharged (m<sup>3</sup>/hr) : 6971.35

### TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Specification / Limit (As Per CPCB Norms)
1.	Particulate Matter (PM)	IS:11255(Part-1 )	41.4	mg/Nm <sup>3</sup>	-
2	Carbon Monoxide (CO)	IS:13270	0.28	% by Vol.	1% By Volume
3	Carbon Dioxide (CO <sub>2</sub> )	IS:13270	10.2	% by Vol.	Not Specified
4	O <sub>2</sub>	IS:13270	9.8	% by Vol.	

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**Fugitive Emission Quality report for the month of October'23 – March'24****ITS TESTING LABORATORY PRIVATE LIMITED**

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)  
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**TEST REPORT****Fugitive Air Quality Analysis**

Report Code: AAQ-070224-06

Issue Date: 12/02/2024

Issued To: M/S. Shyam Steel Industries Ltd.  
 Raturia Industrial Area, Angadpur, Durgapur- 713215,  
 Paschim Bardhaman, West Bengal, India

**SAMPLING & ANALYSIS DATA**

Sample Drawn By : ITS Representative  
 Date of Sampling : 05/02/2024  
 Sample Description : Fugitive Air  
 Sampling Location : Near Product House  
 Sampling Duration : 6 Hours.  
 Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/02  
 Analysis Duration : 07/02/2024 To 12/02/2024  
 Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate  
 Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
 Weather Condition : Clear

**TEST RESULT**

S.No.	Parameter	Test Method	Results	Units	Permissible Limit of Exposure As Per CPCB/Factories Act
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	56.3	µg /m <sup>3</sup>	100
2.	Suspended Particulate Matter (SPM)	IS:5182 Part-XXIII	164.3	µg /m <sup>3</sup>	600
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	14.0	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	30.6	µg /m <sup>3</sup>	80

  
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## TEST REPORT

### Fugitive Air Quality Analysis

Report Code: AAQ-071223-06

Issue Date: 12/12/2023

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 05/12/2023  
Sample Description : Fugitive Air  
Sampling Location : Near Product House  
Sampling Duration : 6 Hours.  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/12  
Analysis Duration : 07/12/2023 To 12/12/2023  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate  
Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Permissible Limit of Exposure As Per CPCB/Factories Act
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	56.2	µg /m <sup>3</sup>	100
2.	Suspended Particulate Matter (SPM)	IS:5182 Part-XXIII	164.3	µg /m <sup>3</sup>	600
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	14.0	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	30.6	µg /m <sup>3</sup>	80

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## TEST REPORT

### Fugitive Air Quality Analysis

Report Code: AAQ-070223-06

Issue Date: 11/11/2023

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 05/11/2023  
Sample Description : Fugitive Air  
Sampling Location : Near Product House  
Sampling Duration : 6 Hours.  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/11  
Analysis Duration : 07/11/2023 To 11/11/2023  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate  
Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Permissible Limit of Exposure As Per CPCB/Factories Act
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	57.4	µg/m <sup>3</sup>	100
2.	Suspended Particulate Matter (SPM)	IS:5182 Part-XXIII	162.3	µg/m <sup>3</sup>	600
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	14.0	µg/m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	30.4	µg/m <sup>3</sup>	80

  
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## TEST REPORT

### Fugitive Air Quality Analysis

Report Code: AAQ-070224-07

Issue Date: 12/02/2024

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 05/02/2024  
Sample Description : Fugitive Air  
Sampling Location : Near Raw Material Handling Yard (DRI)  
Sampling Duration : 6 Hours.  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/02  
Analysis Duration : 07/02/2024 To 12/02/2024  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate  
Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Permissible Limit of Exposure As Per CPCB/Factories Act
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	54.6	µg /m <sup>3</sup>	100
2.	Suspended Particulate Matter (SPM)	IS:5182 Part-XXIII	168.3	µg /m <sup>3</sup>	600
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	17.5	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	36.6	µg /m <sup>3</sup>	80

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Website: www.itslab.in, Email: itrlclab@gmail.com, info@itslab.in, contact@itslab.in  
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## TEST REPORT

### Fugitive Air Quality Analysis

Report Code: AAQ-071223-07

Issue Date: 12/12/2023

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 05/12/2023  
Sample Description : Fugitive Air  
Sampling Location : Near Raw Material Handling Yard (DRI)  
Sampling Duration : 6 Hours.  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/12  
Analysis Duration : 07/12/2023 To 12/12/2023  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate  
Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Permissible Limit of Exposure As Per CPCB/Factories Act
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	54.6	µg /m <sup>3</sup>	100
2.	Suspended Particulate Matter (SPM)	IS:5182 Part-XXIII	168.3	µg /m <sup>3</sup>	600
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	17.5	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	36.6	µg /m <sup>3</sup>	80

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## TEST REPORT

### Fugitive Air Quality Analysis

Report Code: AAQ-070223-07

Issue Date: 11/11/2023

Issued To: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India


### SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative  
Date of Sampling : 05/11/2023  
Sample Description : Fugitive Air  
Sampling Location : Near Raw Material Handling Yard (DRI)  
Sampling Duration : 6 Hours  
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/11  
Analysis Duration : 07/11/2023 To 11/11/2023  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>) Fine Particulate  
Sampler (PM<sub>2.5</sub>) With Gaseous Attachment  
Weather Condition : Clear

### TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Permissible Limit of Exposure As Per CPCB/Factories Act
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	55.3	µg /m <sup>3</sup>	100
2.	Suspended Particulate Matter (SPM)	IS:5182 Part-XXIII	166.2	µg /m <sup>3</sup>	600
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	16.4	µg /m <sup>3</sup>	80
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	35.6	µg /m <sup>3</sup>	80

  
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**Waste Water Analysis report for the month of October'23 – March'24****ITS TESTING LABORATORY PRIVATE LIMITED**

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)

(An ISO 9001: 2015, ISO 14001:2015 &amp; ISO 45001:2018 Certified Laboratory)

Website: www.itslab.in, Email: itlrc@itslab.in, info@itslab.in, contact@itslab.in

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**TEST REPORT****Waste Water Sample Analysis**

Report Code: WW-070224-014

Issue Date: 12/02/2024

Issue To : M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

**SAMPLING & ANALYSIS DATA**

Sample Drawn On : 05/02/2024  
Sample Received On : 07/02/2024  
Sample Drawn By : ITS Representative  
Sample Description : **Drain of DRI Plant**  
Sample Quantity/Packing detail : 5ltr. in Plastic Cane & 500ml in Glass Bottle  
Analysis Duration : 07/02/2024 To 12/02/2024

**TEST RESULTS**

S.No.	Parameter	Test Method	Results	Units	Limit as per CPCB Norms
1.	pH	IS:3025(Part-02):1983	7.30	-	5.5 – 9.0
2.	Total Suspended Solid (TSS)	IS:3025(Part-17):1984	32.1	mg/l	100 max
3.	Chemical Oxygen Demand (as O <sub>2</sub> )	APHA 5220 B:2005	62.0	mg/l	250 max
4.	Biological Oxygen Demand (as O <sub>2</sub> )	IS:3025(Part-44):1993	16.3	mg/l	30 max
5.	Oil & grease	IS:3025(Part-39):1984	3.9	mg/l	10 max

Remark: CPCB- Central Pollution Control Board.

  
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# ITS TESTING LABORATORY PRIVATE LIMITED

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## TEST REPORT

### Waste Water Sample Analysis

Report Code: WW-071223-01

Issue Date: 12/12/2023

Issue To : M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 05/12/2023  
Sample Received On : 07/12/2023  
Sample Drawn By : ITS Representative  
Sample Description : **Drain of DRI Plant**  
Sample Quantity/Packing detail : 5ltr. in Plastic Cane & 500ml in Glass Bottle  
Analysis Duration : 07/12/2023 To 12/12/2023

### TEST RESULTS

S.No.	Parameter	Test Method	Results	Units	Limit as per CPCB Norms
1.	pH	IS:3025(Part-12):1983	7.30	-	5.5 – 9.0
2.	Total Suspended Solid (TSS)	IS:3025(Part-17):1984	32.1	mg/l	100 max
3.	Chemical Oxygen Demand (as O <sub>2</sub> )	APHA 5220 B:2005	62.0	mg/l	250 max
4.	Biological Oxygen Demand (as O <sub>2</sub> )	IS:3025(Part-44):1993	16.2	mg/l	30 max
5.	Oil & grease	IS:3025(Part-39):1984	3.9	mg/l	10 max

Remark: CPCB- Central Pollution Control Board.

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## TEST REPORT

### Waste Water Sample Analysis

Report Code: WW-070223-01

Issue Date: 11/11/2023

Issue To : M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 05/11/2023  
Sample Received On : 07/11/2023  
Sample Drawn By : ITS Representative  
Sample Description : Drain of DRI Plant  
Sample Quantity/Packing detail : 5ltr. in Plastic Cane & 500ml in Glass Bottle  
Analysis Duration : 07/11/2023 To 11/11/2023

### TEST RESULTS

S.No.	Parameter	Test Method	Results	Units	Limit as per CPCB Norms
1.	pH	IS:3025(Part-11):1983	7.33	-	5.5 - 9.0
2.	Total Suspended Solid (TSS)	IS:3025(Part-17):1984	32.0	mg/l	100 max
3.	Chemical Oxygen Demand (as O <sub>2</sub> )	APHA 5220 B:2005	62.0	mg/l	250 max
4.	Biological Oxygen Demand (as O <sub>2</sub> )	IS:3025(Part-44):1993	17.2	mg/l	30 max
5.	Oil & grease	IS:3025(Part-39):1984	3.9	mg/l	10 max

Remark: CPCB- Central Pollution Control Board.

  
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# ITS TESTING LABORATORY PRIVATE LIMITED

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## TEST REPORT

### Waste Water Sample Analysis

Report Code: WW-070224-015

Issue Date: 12/02/2024

Issue To : M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 05/02/2024  
Sample Received On : 07/02/2024  
Sample Drawn By : ITS Representative  
Sample Description : Drain Near Security Gate  
Sample Quantity/Packing detail : 5ltr. in Plastic Cane & 500ml in Glass Bottle  
Analysis Duration : 07/02/2024 To 12/02/2024

### TEST RESULTS

S.No.	Parameter	Test Method	Results	Units	Limit as per CPCB Norms
1.	pH	IS:3025(Part-02):1983	7.31	-	5.5 – 9.0
2.	Total Suspended Solid (TSS)	IS:3025(Part-17):1984	35.6	mg/l	100 max
3.	Chemical Oxygen Demand (as O <sub>2</sub> )	APHA 5220 B:2005	57.3	mg/l	250 max
4.	Biological Oxygen Demand (as O <sub>2</sub> )	IS:3025(Part-44):1993	16.3	mg/l	30 max
5.	Oil & grease	IS:3025(Part-39):1984	<1.0	mg/l	10 max

Remark: CPCB- Central Pollution Control Board.

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AUTHORIZED SIGNATORY



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## TEST REPORT

### Waste Water Sample Analysis

Report Code: WW-071223-02

Issue Date: 12/12/2023

Issue To : M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 05/12/2023  
Sample Received On : 07/12/2023  
Sample Drawn By : ITS Representative  
Sample Description : Drain Near Security Gate  
Sample Quantity/Packing detail : 5ltr. in Plastic Cane & 500ml in Glass Bottle  
Analysis Duration : 07/12/2023 To 12/12/2023

### TEST RESULTS

S.No.	Parameter	Test Method	Results	Units	Limit as per CPCB Norms
1.	pH	IS:3025(Part-12):1983	7.31	-	5.5 - 9.0
2.	Total Suspended Solid (TSS)	IS:3025(Part-17):1984	35.7	mg/l	100 max
3.	Chemical Oxygen Demand (as O <sub>2</sub> )	APIHA 5220 B:2005	57.3	mg/l	250 max
4.	Biological Oxygen Demand (as O <sub>2</sub> )	IS:3025(Part-44):1993	16.2	mg/l	30 max
5.	Oil & grease	IS:3025(Part-39):1984	<1.0	mg/l	10 max

Remark: CPCB- Central Pollution Control Board.

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# ITS TESTING LABORATORY PRIVATE LIMITED

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)

(An ISO 9001: 2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory)

Website: www.itslab.in, Email: itrlclab@gmail.com, info@itslab.in, contact@itslab.in

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## TEST REPORT

### Waste Water Sample Analysis

Report Code: WW-070223-02

Issue Date: 11/11/2023

Issue To : M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 05/11/2023  
Sample Received On : 07/11/2023  
Sample Drawn By : ITS Representative  
Sample Description : Drain Near Security Gate  
Sample Quantity/Packing detail : 5ltr. in Plastic Cane & 500ml in Glass Bottle  
Analysis Duration : 07/11/2023 To 11/11/2023

### TEST RESULTS

S.No.	Parameter	Test Method	Results	Units	Limit as per CPCB Norms
1.	pH	IS:3025(Part-11):1983	7.36	-	5.5 – 9.0
2.	Total Suspended Solid (TSS)	IS:3025(Part-17):1984	36.0	mg/l	100 max
3.	Chemical Oxygen Demand (as O <sub>2</sub> )	APHA 5220 B:2005	56.0	mg/l	250 max
4.	Biological Oxygen Demand (as O <sub>2</sub> )	IS:3025(Part-44):1993	15.0	mg/l	30 max
5.	Oil & grease	IS:3025(Part-39):1984	<1.0	mg/l	10 max

Remark: CPCB- Central Pollution Control Board.

  
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**Water Quality Analysis report for the month of October'23 – March'24****ITS TESTING LABORATORY PRIVATE LIMITED**

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)  
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Report Code: W-070224-016 (Page- 1 of 2)

**TEST REPORT****Water Sample Analysis**

Report Code: W-070224-016

Issue Date: 12/02/2024

Issue To : M/S. Shyam Steel Industries Ltd.  
 Raturia Industrial Area, Angadpur, Durgapur- 713215,  
 Paschim Bardhaman, West Bengal, India

**SAMPLING & ANALYSIS DATA**

Sample Received On : 05/02/2024  
 Sample Drawn By : ITS Representative  
 Sample Description : Raw Water Storage Tank  
 Sample Drawn On : 07/02/2024  
 Sample Quantity : 4.0 Liter Plastic Bottle & 500ml in Glass Bottle.  
 Analysis Duration : 07/02/2024 To 12/02/2024

S.No.	Parameters	Units	Limits (as per IS:10500-2018)		Results	Test Method
			Desirable Limit	Permissible Limit		
1	Color	Hazen	5	15	<1.0	IS:3025(Pt-4)
2	Odour	-	Agreeable	Agreeable	Agreeable	IS:3025(Pt-5)
3	Turbidity	NTU	1	5	<1.0	IS:3025(Pt-10)
4	pH	-	6.5-8.5	No Relaxation	7.41	IS:3025(Pt-02)
5	Total Hardness (as CaCO <sub>3</sub> )	mg/l	200	600	68	IS:3025(Pt-21)
6	Iron (as Fe)	mg/l	1.0	No Relaxation	<0.05	APHA22 <sup>nd</sup> Ed.,3020
7	Chlorides (as Cl)	mg/l	250	1000	20.3	IS:3025(Pt-32)
8	Fluoride (as F)	mg/l	1	1.5	<0.1	APHA22 <sup>nd</sup> Ed.,4500 F (D)
9	TDS	mg/l	500	2000	156	IS:3025(Pt-16)
10	Calcium (as Ca <sup>2+</sup> )	mg/l	75	200	15.3	IS:3025(Pt-40)
02	Magnesium (as Mg <sup>2+</sup> )	mg/l	30	100	7.33	APHA22 <sup>nd</sup> Ed.,3500-Mg (B)
02	Sulphate (as SO <sub>4</sub> )	mg/l	200	400	13.38	IS:3025(Pt-24)
13	Free Residual Chlorine	mg/l	0.3	1	Nil	IS:3025(Pt-26)

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Report Code: W-070224-016 (Page- 2 of 2)

14	Copper (as Cu)	mg/l	0.05	1.5	ND	APHA 22 <sup>nd</sup> Ed., 3020B/3021 B (AAS)
15	Cadmium (as Cd)	mg/l	0.002	No Relaxation	ND	APHA 22 <sup>nd</sup> Ed., 3020 B / 3021 B (AAS)
16	Arsenic (as As)	mg/l	0.01	0.05	ND	APHA 22 <sup>nd</sup> Ed., 3020 B / 3024, AAS- VGA
17	Cyanide (as CN)	mg/l	0.05	No Relaxation	ND	APHA 22 <sup>nd</sup> Ed., 4500CN
18	Lead (as Pb)	mg/l	0.01	No Relaxation	ND	APHA 22 <sup>nd</sup> Ed., 3020 B / 3021 BAAS
19	Zinc (as Zn)	mg/l	5	15	ND	APHA 22 <sup>nd</sup> Ed., 3020 B / 3021 B (AAS)
20	Nickel (as Ni)	mg/l	0.03	No Relaxation	ND	APHA 3021 (B)
21	Chromium (as Cr <sup>6+</sup> )	mg/l	0.04	No Relaxation	ND	IS:3025 (Pt-52)
22	Alkalinity (as CaCO <sub>3</sub> )	mg/l	191	600	70	IS:3025 (Pt-24)
24	Aluminum (as Al)	mg/l	0.02	0.3	ND	APHA 22 <sup>nd</sup> Ed 3020 B / 3021 B (AAS) / IS3025 (pt-55)
24	Conductivity at 25°C	mS	Not Specified	Not Specified	247	APHA 2510
25	Taste	-	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
<b>Bacteriological Parameters</b>						
1	Total Coliform	MPN/100ml	Shall Not Be Detectable	Not Detected (<2)		IS:1622-1981 (Reaff.3003)
2	E.coli	<u>E.coli</u> /100ml	Shall Not Be Detectable	Absent		IS:1622-1981 (Reaff.3003)

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Report Code: W-071223-01 (Page- 1 of 2)

## TEST REPORT

### Water Sample Analysis

Report Code: W-071223-01

Issue Date: 12/12/2023

Issue To : M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Received On : 05/12/2023  
Sample Drawn By : ITS Representative  
Sample Description : Raw Water Storage Tank  
Sample Drawn On : 07/12/2023  
Sample Quantity : 4.0 Liter Plastic Bottle & 500ml in Glass Bottle.  
Analysis Duration : 07/12/2023 To 12/12/2023

S.No.	Parameters	Units	Limits (as per IS:10500-2018)		Results	Test Method
			Desirable Limit	Permissible Limit		
1	Color	Hazen	5	15	<1.0	IS:3025(Pt-4)
2	Odour	-	Agreeable	Agreeable	Agreeable	IS:3025(Pt-5)
3	Turbidity	NTU	1	5	<1.0	IS:3025(Pt-10)
4	pH	-	6.5-8.5	No Relaxation	7.41	IS:3025(Pt-12)
5	Total Hardness (as CaCO <sub>3</sub> )	mg/l	200	600	68	IS:3025(Pt-21)
6	Iron (as Fe)	mg/l	1.0	No Relaxation	<0.05	APHA22 <sup>nd</sup> Ed.,3120
7	Chlorides (as Cl)	mg/l	250	1000	20.2	IS:3025(Pt-32)
8	Fluoride (as F)	mg/l	1	1.5	<0.1	APHA22 <sup>nd</sup> Ed.,4500 F (D)
9	TDS	mg/l	500	2000	156	IS:3025(Pt-16)
10	Calcium (as Ca <sup>2+</sup> )	mg/l	75	200	15.2	IS:3025(Pt-40)
12	Magnesium (as Mg <sup>2+</sup> )	mg/l	30	100	7.33	APHA22 <sup>nd</sup> Ed.,3500-Mg (B)
12	Sulphate (as SO <sub>4</sub> )	mg/l	200	400	13.28	IS:3025(Pt-24)
13	Free Residual Chlorine	mg/l	0.2	1	Nil	IS:3025(Pt-26)

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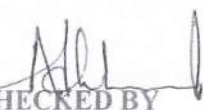
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Report Code: W-071223-01 (Page- 2 of 2)

14	Copper (as Cu)	mg/l	0.05	1.5	ND	APHA22 <sup>nd</sup> Ed.,3120B/3121 B(AAS)
15	Cadmium(asCd)	mg/l	0.002	NoRelaxation	ND	APHA 22 <sup>nd</sup> Ed., 3120 B / 3121 B (AAS)
16	Arsenic(asAs)	mg/l	0.01	0.05	ND	APHA 22 <sup>nd</sup> Ed., 3120 B / 3124, AAS- VGA
17	Cyanide(asCN)	mg/l	0.05	NoRelaxation	ND	APIIA 22 <sup>nd</sup> Ed., 4500CN
18	Lead(asPb)	mg/l	0.01	NoRelaxation	ND	APHA 22 <sup>nd</sup> Ed., 3120 B / 3121 BAAS
19	Zinc(asZn)	mg/l	5	15	ND	APHA 22 <sup>nd</sup> Ed., 3120 B/ 3121 B (AAS)
20	Nickel(asNi)	mg/l	0.03	NoRelaxation	ND	APHA 3121 (B)
21	Chromium(asCr <sup>6+</sup> )	mg/l	0.04	NoRelaxation	ND	IS:3025(Pt-52)
22	Alkalinity(asCaCO <sub>3</sub> )	mg/l	191	600	70	IS:3025(Pt-23)
23	Aluminum(asAl)	mg/l	0.02	0.2	ND	APHA 22 <sup>nd</sup> Ed3120 B / 3121 B (AAS) / IS3025 (pt-55)
24	Conductivityat25 <sup>o</sup> C	mS	Not Specified	NotSpecified	237	APHA 2510
25	Taste	-	Agreeable	Agreeable	Agreeable	IS:3025(Pt-8)
BacteriologicalParameters						
1	Total Coliform	MPN/100ml	Shall Not Be Detectable	NotDetected(<2)	IS:1622-1981(Reaff.2003)	
2	E.coli	<u>E.coli</u> /100ml	Shall Not Be Detectable	Absent	IS:1622-1981(Reaff.2003)	

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## TEST REPORT TEST REPORT

Report Code: W-070223-01 (Page- 1 of 2)

### Water Sample Analysis

Report Code: W-070223-01

Issue Date: 11/11/2023

Issue To : M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

### SAMPLING & ANALYSIS DATA

Sample Received On : 05/11/2023  
Sample Drawn By : ITS Representative  
Sample Description : Raw Water Storage Tank  
Sample Drawn On : 07/11/2023  
Sample Quantity : 4.0 Liter Plastic Bottle & 500ml in Glass Bottle.  
Analysis Duration : 07/11/2023 To 11/11/2023

S.No.	Parameters	Units	Limits (as per IS:10500-2018)		Results	Test Method
			Desirable Limit	Permissible Limit		
1	Color	Hazen	5	15	<1.0	IS:3025(Pt-4)
2	Odour	-	Agreeable	Agreeable	Agreeable	IS:3025(Pt-5)
3	Turbidity	NTU	1	5	<1.0	IS:3025(Pt-10)
4	pH	-	6.5-8.5	No Relaxation	7.43	IS:3025(Pt-11)
5	Total Hardness (as CaCO <sub>3</sub> )	mg/l	200	600	69	IS:3025(Pt-21)
6	Iron (as Fe)	mg/l	1.0	No Relaxation	<0.05	APHA22 <sup>nd</sup> Ed..3120
7	Chlorides (as Cl)	mg/l	250	1000	20.0	IS:3025(Pt-32)
8	Fluoride (as F)	mg/l	1	1.5	<0.1	APHA22 <sup>nd</sup> Ed..4500 F (D)
9	TDS	mg/l	500	2000	154	IS:3025(Pt-16)
10	Calcium (as Ca <sup>2+</sup> )	mg/l	75	200	15.2	IS:3025(Pt-40)
11	Magnesium (as Mg <sup>2+</sup> )	mg/l	30	100	7.33	APHA22 <sup>nd</sup> Ed..3500- Mg (B)
12	Sulphate (as SO <sub>4</sub> )	mg/l	200	400	13.28	IS:3025(Pt-24)
13	Free Residual Chlorine	mg/l	0.2	1	Nil	IS:3025(Pt-26)



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Report Code: W-070223-01 (Page- 2 of 2)

14	Copper (as Cu)	mg/l	0.05	1.5	ND	APHA 22 <sup>nd</sup> Ed., 3120B/3111 B(AAS)
15	Cadmium(asCd)	mg/l	0.002	NoRelaxation	ND	APHA 22 <sup>nd</sup> Ed., 3120 B / 3111 B (AAS)
16	Arsenic(asAs)	mg/l	0.01	0.05	ND	APHA 22 <sup>nd</sup> Ed., 3120 B / 3114, AAS- VGA
17	Cyanide(asCN)	mg/l	0.05	NoRelaxation	ND	APHA 22 <sup>nd</sup> Ed., 4500CN
18	Lead(asPb)	mg/l	0.01	NoRelaxation	ND	APIA 22 <sup>nd</sup> Ed., 3120 B / 3111 BAAS
19	Zinc(asZn)	mg/l	5	15	ND	APHA 22 <sup>nd</sup> Ed., 3120 B/ 3111 B (AAS)
20	Nickel(asNi)	mg/l	0.03	NoRelaxation	ND	APHA 3111 (B)
21	Chromium(usCr <sup>6+</sup> )	mg/l	0.04	NoRelaxation	ND	IS:3025(Pt-52)
22	Alkalinity(asCaCO <sub>3</sub> )	mg/l	191	600	70	IS:3025(Pt-23)
23	Aluminum(asAl)	mg/l	0.02	0.2	ND	APHA 22 <sup>nd</sup> Ed 3120 B / 3111 B (AAS) / IS3025 (pt-55)
24	Conductivity at 25°C	mS	Not Specified	Not Specified	236	APIA 2510
25	Taste	-	Agreeable	Agreeable	Agreeable	IS:3025(Pt-8)

## Bacteriological Parameters

1	Total Coliform	MPN/100ml	Shall Not Be Detectable	Not Detected(<2)	IS:1622-1981(Reaff.2003)
2	E.coli	E.coli/100ml	Shall Not Be Detectable	Absent	IS:1622-1981(Reaff.2003)

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**Solid Waste Analysis report for the month of October'23 – March'24****ITS TESTING LABORATORY PRIVATE LIMITED**

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)

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Report Code: SW-070224-017, Page 1 of 2

**TEST REPORT****Solid Waste Sample analysis**

Report Code: SW: 070224-017

Issue Date: 12/02/2024

Issued To

: M/S. Shyam Steel Industries Ltd.

Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

Sample Received On : 07/02/2024  
 Sample Drawn On : 05/02/2024  
 Sample Drawn By : ITS Representative  
 Sampling Location : **Slag Dumping Yard**  
 Sample Description : Solid Waste (Induction Furnace Slag)  
 Job Start Date : 07/02/2024  
 Job Completion date : 12/02/2024

**TEST RESULT**

S. No.	Test Parameters	Protocol By TCLP	Results	Requirement / Limit As Per EPA Chapter- 7	
				Min.	Max.
1.	1,3Dichloroethane	EPA 5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
2.	2,4-D	EPA8151A	BDL(DL:0.1µg/l)	-	10.0mg/l
3.	2,4,6Trichlorophenol	EPA8041A	BDL(DL:0.1µg/l)	-	2.0mg/l
4.	Benzene	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
5.	Chloro Benzene	EPA5030C	4.6	-	100.0mg/l
6.	Carbon Tetra Chloride	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
7.	Chlorodane	EPA8021A	BDL(DL:0.1µg/l)	-	0.03mg/l
8.	Chloroform	EPA5030C	BDL(DL:0.1µg/l)	-	6.0mg/l
9.	1,1Dichloroethylene	EPA5030C	BDL(DL:0.1µg/l)	-	0.07mg/l
10.	1,4Dichlorobenzene	EPA 5030C	BDL(DL:0.1µg/l)	-	7.5mg/l
02.	2,4,5 TP (Silvex)	By GC-MS(DCM-Etraction)	Absent	-	1.0mg/l
02.	2,4 Dinitrotoluene	By GC-MS(DCM-Etraction)	Absent	-	0.13mg/l
13.	Cresol (Total)	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
14.	Hexachlorobutadiene	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
15.	Hexachloroethane	By GC-MS(DCM-Etraction)	Absent	-	3.0mg/l
16.	Hexachlorobenzene	EPA8021A	BDL(DL:0.1µg/l)	-	0.13mg/l
17.	m-Cresol	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
18.	Methoxychlor	EPA8021A	BDL(DL:0.1µg/l)	-	10.0mg/l
19.	Methyl Ethyle Ketone	By GC-MS(DCM-Etraction)	Absent	-	200.0mg/l

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Report Code: SW-070224-017, Page 2 of

20.	o-Cresol	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
21.	p-Cresol	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
22.	Pyridine	By GC-MS(DCM-Extraction)	Absent	-	5.0mg/l
24.	Tetrachloroethylene	EPA5030C	BDL(DL:0.1µg/l)	-	0.6mg/l
24.	Toxaphene	By GC-MS(DCM-Extraction)	Absent	-	0.5mg/l
25.	Trichloroethylene	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
26.	2,4,5Trichlorophenol	EPA8021A	BDL(DL:0.1µg/l)	-	400.0mg/l
27.	Barium (as Ba)	EPA200.8	8.5	-	100.0mg/l
28.	Cadmium (as Cd)	EPA200.8	BDL(DL:0.1µg/l)	-	1.0mg/l
29.	Total Chromium (as Cr)	EPA200.8	0.33	-	5.0mg/l
30.	Lead (as Pb)	EPA200.8	BDL(DL:0.1µg/l)	-	5.0mg/l
31.	Arsenic (as As)	EPA200.8	BDL(DL:0.1µg/l)	-	5.0mg/l
32.	Vinyl Chloride	EPA5030C	BDL(DL:0.1µg/l)	-	0.3mg/l
33.	Mercury (as Hg)	EPA200.8	BDL(DL:0.1µg/l)	-	0.3mg/l
34.	Selenium (as Se)	EPA200.8	BDL(DL:0.1µg/l)	-	1.0mg/l
35.	Silver (as Ag)	EPA200.8	BDL(DL:0.1µg/l)	-	5.0mg/l
36.	Copper (as Cu)	EPA200.8	0.32 mg/l	-	-
37.	Hexavalent Chromium (as Cr <sup>+6</sup> )	By GC-MS/EPA	BDL(DL:0.5mg/kg)	-	-
38.	Endrin	EPA8021A	BDL(DL:0.1µg/l)	-	0.02mg/l
39.	Heptachlor	EPA8021A	BDL(DL:0.1µg/l)	-	0.002mg/l
40.	Lindane	EPA8021A	BDL(DL:0.1µg/l)	-	0.4mg/l
41.	Nitrobenzene	By GC-MS (Purge & Trap)	Absent	-	2.0mg/l

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Authorized Signatory



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# ITS TESTING LABORATORY PRIVATE LIMITED

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)

(An ISO 9001: 2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory)

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Report Code: SW-071223-01, Page 1 of 2

## TEST REPORT

### Solid Waste Sample analysis

Report Code: SW: 071223-01

Issue Date: 12/12/2023

Issued To

: M/S. Shyam Steel Industries Ltd.

Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

Sample Received On : 07/12/2023  
Sample Drawn On : 05/12/2023  
Sample Drawn By : ITS Representative  
Sampling Location : Slag Dumping Yard  
Sample Description : Solid Waste (Induction Furnace Slag)  
Job Start Date : 07/12/2023  
Job Completion date : 12/12/2023

## TEST RESULT

S. No.	Test Parameters	Protocol By TCLP	Results	Requirement / Limit As Per EPA Chapter- 7	
				Min.	Max.
1.	1,2Dichloroethane	EPA 5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
2.	2,4-D	EPA8151A	BDL(DL:0.1µg/l)	-	10.0mg/l
3.	2,4,6Trichlorophenol	EPA8041A	BDL(DL:0.1µg/l)	-	2.0mg/l
4.	Benzene	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
5.	Chloro Benzene	EPA5030C	4.7	-	100.0mg/l
6.	Carbon Tetra Chloride	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
7.	Chlorodane	EPA8121A	BDL(DL:0.1µg/l)	-	0.03mg/l
8.	Chloroform	EPA5030C	BDL(DL:0.1µg/l)	-	6.0mg/l
9.	1,1Dichloroethylene	EPA5030C	BDL(DL:0.1µg/l)	-	0.07mg/l
10.	1,4Dichlorobenzene	EPA 5030C	BDL(DL:0.1µg/l)	-	7.5mg/l
12.	2,4,5 TP (Silvex)	By GC-MS(DCM-Etraction)	Absent	-	1.0mg/l
12.	2,4 Dinitrotoluene	By GC-MS(DCM-Etraction)	Absent	-	0.13mg/l
13.	Cresol (Total)	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
14.	Hexachlorobutadiene	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
15.	Hexachloroethane	By GC-MS(DCM-Etraction)	Absent	-	3.0mg/l
16.	Hexachlorobenzene	EPA8121A	BDL(DL:0.1µg/l)	-	0.13mg/l
17.	m-Cresol	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
18.	Methoxychlor	EPA8121A	BDL(DL:0.1µg/l)	-	10.0mg/l
19.	Methyl Ethyle Ketone	By GC-MS(DCM-Etraction)	Absent	-	200.0mg/l

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Authorized Signatory

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Report Code: SW-071223-01, Page 2 of 2

20.	o-Cresol	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
21.	p-Cresol	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
22.	Pyridine	By GC-MS(DCM-Extraction)	Absent	-	5.0mg/l
23.	Tetrachloroethylene	EPA5030C	BDL(DL:0.1µg/l)	-	0.7mg/l
24.	Toxaphene	By GC-MS(DCM-Extraction)	Absent	-	0.5mg/l
25.	Trichloroethylene	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
26.	2,4,5-Trichlorophenol	EPA8121A	BDL(DL:0.1µg/l)	-	400.0mg/l
27.	Barium (as Ba)	EPA200.8	8.5	-	100.0mg/l
28.	Cadmium (as Cd)	EPA200.8	BDL(DL:0.1µg/l)	-	1.0mg/l
29.	Total Chromium (as Cr)	EPA200.8	0.33	-	5.0mg/l
30.	Lead (as Pb)	EPA200.8	BDL(DL:0.1µg/l)	-	5.0mg/l
31.	Arsenic (as As)	EPA200.8	BDL(DL:0.1µg/l)	-	5.0mg/l
32.	Vinyl Chloride	EPA5030C	BDL(DL:0.1µg/l)	-	0.2mg/l
33.	Mercury (as Hg)	EPA200.8	BDL(DL:0.1µg/l)	-	0.2mg/l
34.	Selenium (as Se)	EPA200.8	BDL(DL:0.1µg/l)	-	1.0mg/l
35.	Silver (as Ag)	EPA200.8	BDL(DL:0.1µg/l)	-	5.0mg/l
36.	Copper (as Cu)	EPA200.8	0.22 mg/l	-	-
37.	Hexavalent Chromium (as Cr <sup>6+</sup> )	By GC-MS/EPA	BDL(DL:0.5mg/kg)	-	-
38.	Endrin	EPA8121A	BDL(DL:0.1µg/l)	-	0.02mg/l
39.	Heptachlor	EPA8121A	BDL(DL:0.1µg/l)	-	0.012mg/l
40.	Lindane	EPA8121A	BDL(DL:0.1µg/l)	-	0.4mg/l
41.	Nitrobenzene	By GC-MS (Purge & Trap)	Absent	-	2.0mg/l

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Report Code: SW-070223-01, Page 1 of 2

## TEST REPORT

### Solid Waste Sample analysis

Report Code: SW: 070223-01

Issue Date: 11/11/2023

Issued To

M/S. Shyam Steel Industries Ltd.

Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

Sample Received On : 07/11/2023  
Sample Drawn On : 05/11/2023  
Sample Drawn By : ITS Representative  
Sampling Location : Slag Dumping Yard  
Sample Description : Solid Waste (Induction Furnace Slag)  
Job Start Date : 07/11/2023  
Job Completion date : 11/11/2023

## TEST RESULT

S. No.	Test Parameters	Protocol By TCLP	Results	Requirement / Limit As Per EPA Chapter- 7	
				Min.	Max.
1.	1,2-Dichloroethane	EPA 5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
2.	2,4-D	EPA8151A	BDL(DL:0.1µg/l)	-	10.0mg/l
3.	2,4,6-Trichlorophenol	EPA8041A	BDL(DL:0.1µg/l)	-	2.0mg/l
4.	Benzene	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
5.	Chloro Benzene	EPA5030C	4.6	-	100.0mg/l
6.	Carbon Tetra Chloride	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
7.	Chlorodane	EPA8111A	BDL(DL:0.1µg/l)	-	0.03mg/l
8.	Chloroform	EPA5030C	BDL(DL:0.1µg/l)	-	6.0mg/l
9.	1,1-Dichloroethylene	EPA5030C	BDL(DL:0.1µg/l)	-	0.07mg/l
10.	1,4-Dichlorobenzene	EPA 5030C	BDL(DL:0.1µg/l)	-	7.5mg/l
11.	2,4,5 TP (Silvex)	By GC-MS(DCM-Extraction)	Absent	-	1.0mg/l
12.	2,4 Dinitrotoluene	By GC-MS(DCM-Extraction)	Absent	-	0.13mg/l
13.	Cresol (Total)	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
14.	Hexachlorobutadiene	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
15.	Hexachloroethane	By GC-MS(DCM-Extraction)	Absent	-	3.0mg/l
16.	Hexachlorobenzene	EPA8111A	BDL(DL:0.1µg/l)	-	0.13mg/l
17.	m-Cresol	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
18.	Methoxychlor	EPA8111A	BDL(DL:0.1µg/l)	-	10.0mg/l
19.	Methyl Ethyle Ketone	By GC-MS(DCM-Extraction)	Absent	-	200.0mg/l

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Report Code: SW-070223-01, Page 2 of 2

20.	o-Cresol	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
21.	p-Cresol	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
22.	Pyridine	By GC-MS(DCM-Extraction)	Absent	-	5.0mg/l
23.	Tetrachloroethylene	EPA5030C	BDL(DL:0.1µg/l)	-	0.7mg/l
24.	Toxaphene	By GC-MS(DCM-Extraction)	Absent	-	0.5mg/l
25.	Trichloroethylene	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
26.	2,4,5-Trichlorophenol	EPA8111A	BDL(DL:0.1µg/l)	-	400.0mg/l
27.	Barium (as Ba)	EPA200.8	8.6	-	100.0mg/l
28.	Cadmium (as Cd)	EPA200.8	BDL(DL:0.1µg/l)	-	1.0mg/l
29.	Total Chromium (as Cr)	EPA200.8	0.32	-	5.0mg/l
30.	Lead (as Pb)	EPA200.8	BDL(DL:0.1µg/l)	-	5.0mg/l
31.	Arsenic (as As)	EPA200.8	BDL(DL:0.1µg/l)	-	5.0mg/l
32.	Vinyl Chloride	EPA5030C	BDL(DL:0.1µg/l)	-	0.2mg/l
33.	Mercury (as Hg)	EPA200.8	BDL(DL:0.1µg/l)	-	0.2mg/l
34.	Selenium (as Se)	EPA200.8	BDL(DL:0.1µg/l)	-	1.0mg/l
35.	Silver (as Ag)	EPA200.8	BDL(DL:0.1µg/l)	-	5.0mg/l
36.	Copper (as Cu)	EPA200.8	0.22 mg/l	-	-
37.	Hexavalent Chromium (as Cr <sup>6+</sup> )	By GC-MS/EPA	BDL(DL:0.5mg/kg)	-	-
38.	Endrin	EPA8111A	BDL(DL:0.1µg/l)	-	0.02mg/l
39.	Heptachlor	EPA8111A	BDL(DL:0.1µg/l)	-	0.011mg/l
40.	Lindane	EPA8111A	BDL(DL:0.1µg/l)	-	0.4mg/l
41.	Nitrobenzene	By GC-MS (Purge & Trap)	Absent	-	2.0mg/l

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Report Code: SW-070224-018, Page 1 of 2

## TEST REPORT

### Solid Waste Sample analysis

Report Code: SW: 070224-018

Issue Date: 12/02/2024

Issued To

: M/S. Shyam Steel Industries Ltd.

Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

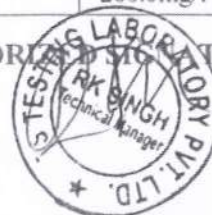
Sample Received On : 07/02/2024  
Sample Drawn On : 05/02/2024  
Sample Drawn By : ITS Representative  
Sampling Location : Slag Dumping Yard  
Sample Description : Solid Waste (CPP)  
Job Start Date : 07/02/2024  
Job Completion date : 12/02/2024

## TEST RESULT

S. No.	Test Parameters	Protocol By TCLP	Results	Requirement / Limit As Per EPA Chapter- 7	
				Min.	Max.
1.	1,3Dichloroethane	EPA 5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
2.	2,4-D	EPA8151A	BDL(DL:0.1µg/l)	-	10.0mg/l
3.	2,4,6Trichlorophenol	EPA8041A	BDL(DL:0.1µg/l)	-	2.0mg/l
4.	Benzene	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
5.	Chloro Benzene	EPA5030C	6.4	-	100.0mg/l
6.	Carbon TetraChloride	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
7.	Chlorodane	EPA8021A	BDL(DL:0.1µg/l)	-	0.03mg/l
8.	Chloroform	EPA5030C	BDL(DL:0.1µg/l)	-	6.0mg/l
9.	1,1Dichloroethylene	EPA5030C	BDL(DL:0.1µg/l)	-	0.07mg/l
10.	1,4Dichlorobenzene	EPA 5030C	BDL(DL:0.1µg/l)	-	7.5mg/l
02.	2,4,5 TP (Silvex)	By GC-MS(DCM-Etraction)	Absent	-	1.0mg/l
02.	2,4 Dinitrotoluene	By GC-MS(DCM-Etraction)	Absent	-	0.13mg/l
13.	Cresol (Total)	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
14.	Hexachlorobutadiene	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
15.	Hexachloroethane	By GC-MS(DCM-Etraction)	Absent	-	3.0mg/l
16.	Hexachlorobenzene	EPA8021A	BDL(DL:0.1µg/l)	-	0.13mg/l
17.	m-Cresol	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
18.	Methoxychlor	EPA8021A	BDL(DL:0.1µg/l)	-	10.0mg/l
19.	Methyl Ethyle Ketone	By GC-MS(DCM-Etraction)	Absent	-	200.0mg/l

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Report Code: SW-070224-018, Page 2 of 2

20.	o-Cresol	EPA8041 A	BDL(DL:0.1µg/l)	-	200.0mg/l
21.	p-Cresol	EPA8041 A	BDL(DL:0.1µg/l)	-	200.0mg/l
22.	Pyridine	By GC-MS(DCM-Etraction)	Absent	-	5.0mg/l
24.	Tetrachloroethylene	EPA5030C	BDL(DL:0.1µg/l)	-	0.6mg/l
24.	Toxaphene	By GC-MS(DCM-Etraction)	Absent	-	0.5mg/l
25.	Trichloroethylene	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
26.	2,4,5Trichlorophenol	EPA8021 A	BDL(DL:0.1µg/l)	-	400.0mg/l
27.	Barium (as Ba)	EPA200.8	8.0	-	100.0mg/l
28.	Cadmium (as Cd)	EPA200.8	BDL(DL:0.1µg/l)	-	1.0mg/l
29.	Total Chromium (as Cr)	EPA200.8	0.37	-	5.0mg/l
30.	Lead (as Pb)	EPA200.8	BDL(DL:0.1µg/l)	-	5.0mg/l
31.	Arsenic (as As)	EPA200.8	BDL(DL:0.1µg/l)	-	5.0mg/l
32.	Vinyl Chloride	EPA5030C	BDL(DL:0.1µg/l)	-	0.3mg/l
33.	Mercury (as Hg)	EPA200.8	BDL(DL:0.1µg/l)	-	0.3mg/l
34.	Selenium (as Se)	EPA200.8	BDL(DL:0.1µg/l)	-	1.0mg/l
35.	Silver (as Ag)	EPA200.8	BDL(DL:0.1µg/l)	-	5.0mg/l
36.	Copper (as Cu)	EPA200.8	0.38 mg/l	-	-
37.	Hexavalent Chromium (as Cr <sup>+6</sup> )	By GC-MS/EPA	BDL(DL:0.5mg/kg)	-	-

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Report Code: SW-071223-02, Page 1 of 2

## TEST REPORT

### Solid Waste Sample analysis

Report Code: SW: 071223-02

Issue Date: 12/12/2023

Issued To

: M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

Sample Received On : 07/12/2023  
Sample Drawn On : 05/12/2023  
Sample Drawn By : ITS Representative  
Sampling Location : Slag Dumping Yard  
Sample Description : Solid Waste (CPP)  
Job Start Date : 07/12/2023  
Job Completion date : 12/12/2023

## TEST RESULT

S. No.	Test Parameters	Protocol By TCLP	Results	Requirement / Limit As Per EPA Chapter- 7	
				Min.	Max.
1.	1,2Dichloroethane	EPA 5030C	BDL(DL:0.1 µg/l)	-	0.5mg/l
2.	2,4-D	EPA8151A	BDL(DL:0.1 µg/l)	-	10.0mg/l
3.	2,4,6Trichlorophenol	EPA8041A	BDL(DL:0.1 µg/l)	-	2.0mg/l
4.	Benzene	EPA5030C	BDL(DL:0.1 µg/l)	-	0.5mg/l
5.	Chloro Benzene	EPA5030C	6.4	-	100.0mg/l
6.	CarbonTetraChloride	EPA5030C	BDL(DL:0.1 µg/l)	-	0.5mg/l
7.	Chlorodane	EPA8121A	BDL(DL:0.1 µg/l)	-	0.03mg/l
8.	Chloroform	EPA5030C	BDL(DL:0.1 µg/l)	-	6.0mg/l
9.	1,1Dichloroethylene	EPA5030C	BDL(DL:0.1 µg/l)	-	0.07mg/l
10.	1,4Dichlorobenzene	EPA 5030C	BDL(DL:0.1 µg/l)	-	7.5mg/l
12.	2,4,5 TP (Silvex)	By GC-MS(DCM-Extraction)	Absent	-	1.0mg/l
12.	2,4 Dinitrotoluene	By GC-MS(DCM-Extraction)	Absent	-	0.13mg/l
13.	Cresol (Total)	EPA8041A	BDL(DL:0.1 µg/l)	-	200.0mg/l
14.	Hexachlorobutadiene	EPA5030C	BDL(DL:0.1 µg/l)	-	0.5mg/l
15.	Hexachloroethane	By GC-MS(DCM-Extraction)	Absent	-	3.0mg/l
16.	Hexachlorobenzene	EPA8121A	BDL(DL:0.1 µg/l)	-	0.13mg/l
17.	m-Cresol	EPA8041A	BDL(DL:0.1 µg/l)	-	200.0mg/l
18.	Methoxychlor	EPA8121A	BDL(DL:0.1 µg/l)	-	10.0mg/l
19.	Methyl Ethyle Ketone	By GC-MS(DCM-Extraction)	Absent	-	200.0mg/l

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Authorized Signatory

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# ITS TESTING LABORATORY PRIVATE LIMITED

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)

(An ISO 9001: 2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory)

Website: [www.itslab.in](http://www.itslab.in), Email: [itrlclab@gmail.com](mailto:itrlclab@gmail.com), [info@itslab.in](mailto:info@itslab.in), [contact@itslab.in](mailto:contact@itslab.in)

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Report Code: SW-071223-02, Page 2 of 2

20.	o-Cresol	EPA8041A	BDL(DL:0.1 µg/l)	-	200.0mg/l
21.	p-Cresol	EPA8041A	BDL(DL:0.1 µg/l)	-	200.0mg/l
22.	Pyridine	By GC-MS(DCM-Extraction)	Absent	-	5.0mg/l
23.	Tetrachloroethylene	EPA5030C	BDL(DL:0.1 µg/l)	-	0.7mg/l
24.	Toxaphene	By GC-MS(DCM-Extraction)	Absent	-	0.5mg/l
25.	Trichloroethylene	EPA5030C	BDL(DL:0.1 µg/l)	-	0.5mg/l
26.	2,4,5Trichlorophenol	EPA8121A	BDL(DL:0.1 µg/l)	-	400.0mg/l
27.	Barium (as Ba)	EPA200.8	8.0	-	100.0mg/l
28.	Cadmium (as Cd)	EPA200.8	BDL(DL:0.1 µg/l)	-	1.0mg/l
29.	Total Chromium (as Cr)	EPA200.8	0.37	-	5.0mg/l
30.	Lead (as Pb)	EPA200.8	BDL(DL:0.1 µg/l)	-	5.0mg/l
31.	Arsenic (as As)	EPA200.8	BDL(DL:0.1 µg/l)	-	5.0mg/l
32.	Vinyl Chloride	EPA5030C	BDL(DL:0.1 µg/l)	-	0.2mg/l
33.	Mercury (as Hg)	EPA200.8	BDL(DL:0.1 µg/l)	-	0.2mg/l
34.	Selenium (as Se)	EPA200.8	BDL(DL:0.1 µg/l)	-	1.0mg/l
35.	Silver (as Ag)	EPA200.8	BDL(DL:0.1 µg/l)	-	5.0mg/l
36.	Copper (as Cu)	EPA200.8	0.28 mg/l	-	-
37.	Hexavalent Chromium (as Cr <sup>6+</sup> )	By GC-MS/EPA	BDL(DL:0.5mg/kg)	-	-

Checked by



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Report Code: SW-070223-02, Page 1 of 2

## TEST REPORT

### Solid Waste Sample analysis

Report Code: SW: 070223-02

Issue Date: 11/11/2023

Issued To

M/S. Shyam Steel Industries Ltd.

Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

Sample Received On : 07/04/2023  
Sample Drawn On : 05/04/2023  
Sample Drawn By : ITS Representative  
Sampling Location : **Slag Dumping Yard**  
Sample Description : Solid Waste (CPP)  
Job Start Date : 07/11/2023  
Job Completion date : 11/11/2023

## TEST RESULT

S. No.	Test Parameters	Protocol By TCLP	Results	Requirement / Limit As Per EPA Chapter- 7	
				Min.	Max.
1.	1,2-Dichloroethane	EPA 5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
2.	2,4-D	EPA8151A	BDL(DL:0.1µg/l)	-	10.0mg/l
3.	2,4,6-Trichlorophenol	EPA8041A	BDL(DL:0.1µg/l)	-	2.0mg/l
4.	Benzene	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
5.	Chloro Benzene	EPA5030C	6.3	-	100.0mg/l
6.	Carbon Tetra Chloride	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
7.	Chlorodane	EPA8111A	BDL(DL:0.1µg/l)	-	0.03mg/l
8.	Chloroform	EPA5030C	BDL(DL:0.1µg/l)	-	6.0mg/l
9.	1,1-Dichloroethylene	EPA5030C	BDL(DL:0.1µg/l)	-	0.07mg/l
10.	1,4-Dichlorobenzene	EPA 5030C	BDL(DL:0.1µg/l)	-	7.5mg/l
11.	2,4,5 TP (Silvex)	By GC-MS(DCM-Extraction)	Absent	-	1.0mg/l
12.	2,4 Dinitrotoluene	By GC-MS(DCM-Extraction)	Absent	-	0.13mg/l
13.	Cresol (Total)	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
14.	Hexachlorobutadiene	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
15.	Hexachloroethane	By GC-MS(DCM-Extraction)	Absent	-	3.0mg/l
16.	Hexachlorobenzene	EPA8111A	BDL(DL:0.1µg/l)	-	0.13mg/l
17.	m-Cresol	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
18.	Methoxychlor	EPA8111A	BDL(DL:0.1µg/l)	-	10.0mg/l
19.	Methyl Ethyle Ketone	By GC-MS(DCM-Extraction)	Absent	-	200.0mg/l

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Report Code: SW-070223-02, Page 2 of 2

20.	o-Cresol	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
21.	p-Cresol	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
22.	Pyridine	By GC-MS(DCM-Extraction)	Absent	-	5.0mg/l
23.	Tetrachloroethylene	EPA5030C	BDL(DL:0.1µg/l)	-	0.7mg/l
24.	Toxaphene	By GC-MS(DCM-Extraction)	Absent	-	0.5mg/l
25.	Trichloroethylene	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
26.	2,4,5-Trichlorophenol	EPA8111A	BDL(DL:0.1µg/l)	-	400.0mg/l
27.	Barium (as Ba)	EPA200.8	8.0	-	100.0mg/l
28.	Cadmium (as Cd)	EPA200.8	BDL(DL:0.1µg/l)	-	1.0mg/l
29.	Total Chromium (as Cr)	EPA200.8	0.35	-	5.0mg/l
30.	Lead (as Pb)	EPA200.8	BDL(DL:0.1µg/l)	-	5.0mg/l
31.	Arsenic (as As)	EPA200.8	BDL(DL:0.1µg/l)	-	5.0mg/l
32.	Vinyl Chloride	EPA5030C	BDL(DL:0.1µg/l)	-	0.2mg/l
33.	Mercury (as Hg)	EPA200.8	BDL(DL:0.1µg/l)	-	0.2mg/l
34.	Selenium (as Se)	EPA200.8	BDL(DL:0.1µg/l)	-	1.0mg/l
35.	Silver (as Ag)	EPA200.8	BDL(DL:0.1µg/l)	-	5.0mg/l
36.	Copper (as Cu)	EPA200.8	0.26 mg/l	-	-
37.	Hexavalent Chromium (as Cr <sup>6+</sup> )	By GC-MS/EPA	BDL(DL:0.5mg/kg)	-	-

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Authorized Signatory

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**Noise Level Monitoring report for the month of October'23 – March'24****ITS TESTING LABORATORY PRIVATE LIMITED**

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)

(An ISO 9001: 2015, ISO 14001:2015 &amp; ISO 45001:2018 Certified Laboratory)

Website: www.itslab.in, Email: itlrlab@gmail.com, info@itslab.in, contact@itslab.in

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**TEST REPORT**  
**Ambient Noise Analysis**

Report Code: N-070224-08

Issue Date: 12/02/2024

Issued To:

M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

Sample Drawn On : 05/02/2024 To 06/02/2024  
 Sample Drawn By : ITS Representative  
 Sample Received On : 07/02/2024  
 Sample description : Ambient Noise  
 Sampling Location : Near Main Gate  
 Sampling Duration : 24 hours  
 Analysis Duration : 07/02/2024 To 12/02/2024

**TEST RESULTS**

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits indB(A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	Equivalent Noise Level (6.0 Am To 10.0 Pm)	55.3	dB(A)	Industrial Area	75	70
2.	Equivalent Noise Level (10.0 Pm To 6.0 Am)	38.3	dB(A)	Commercial Area	65	55
3.	Lmax	59.5	dB(A)	Residential Area	55	45
4.	Lmin	32.5	dB(A)	Silence Zone	50	40

  
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**Terms & Conditions :**

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## TEST REPORT Ambient Noise Analysis

Report Code: N-071223-01

Issue Date: 12/12/2023

Issued To:

M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

Sample Drawn On : 05/12/2023 To 06/12/2023  
Sample Drawn By : ITS Representative  
Sample Received On : 07/12/2023  
Sample description : Ambient Noise  
Sampling Location : Near Main Gate  
Sampling Duration : 24 hours  
Analysis Duration : 07/12/2023 To 12/12/2023

### TEST RESULTS

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits indB(A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	Equivalent Noise Level (6.0 Am To 10.0 Pm)	55.3	dB(A)	Industrial Area	75	70
2.	Equivalent Noise Level (10.0 Pm To 6.0 Am)	38.3	dB(A)	Commercial Area	65	55
3.	Lmax	59.5	dB(A)	Residential Area	55	45
4.	Lmin	32.5	dB(A)	Silence Zone	50	40

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## TEST REPORT Ambient Noise Analysis

Report Code: N-070223-01

Issue Date: 11/11/2023

Issued To:

M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
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Sample Drawn By : ITS Representative  
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Sample description : Ambient Noise  
Sampling Location : Near Main Gate  
Sampling Duration : 24 hours  
Analysis Duration : 07/11/2023 To 11/11/2023

### TEST RESULTS

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB(A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	Equivalent Noise Level (6.0 Am To 10.0 Pm)	55.2	dB(A)	Industrial Area	75	70
2.	Equivalent Noise Level (10.0 Pm To 6.0 Am)	38.3	dB(A)	Commercial Area	65	55
3.	Lmax	60.4	dB(A)	Residential Area	55	45
4.	Lmin	32.5	dB(A)	Silence Zone	50	40

  
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## TEST REPORT

### Ambient Noise Analysis

Report Code: N-070224-09

Issue Date: 12/02/2024

Issued To:

M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

Sample Drawn On : 05/02/2024 To 06/02/2024  
Sample Drawn By : ITS Representative  
Sample Received On : 07/02/2024  
Sample description : Ambient Noise  
Sampling Location : Near DRI Gate  
Sampling Duration : 24 hours  
Analysis Duration : 07/02/2024 To 12/02/2024

### TEST RESULTS

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB(A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	Equivalent Noise Level (6.0 Am To 10.0 Pm)	50.4	dB(A)	Industrial Area	75	70
2.	Equivalent Noise Level (10.0 Pm To 6.0 Am)	34.9	dB(A)	Commercial Area	65	55
3.	Lmax	57.6	dB(A)	Residential Area	55	45
4.	Lmin	30.0	dB(A)	Silence Zone	50	40

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## TEST REPORT

### Ambient Noise Analysis

Report Code: N-121223-02

Issue Date: 12/12/2023

Issued To:

M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

Sample Drawn On : 05/12/2023 To 06/12/2023  
Sample Drawn By : ITS Representative  
Sample Received On : 12/12/2023  
Sample description : Ambient Noise  
Sampling Location : Near DRI Gate  
Sampling Duration : 24 hours  
Analysis Duration : 12/12/2023 To 12/12/2023

### TEST RESULTS

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB(A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	Equivalent Noise Level (6.0 Am To 10.0 Pm)	50.4	dB(A)	Industrial Area	75	70
2.	Equivalent Noise Level (10.0 Pm To 6.0 Am)	34.9	dB(A)	Commercial Area	65	55
3.	Lmax	57.6	dB(A)	Residential Area	55	45
4.	Lmin	30.0	dB(A)	Silence Zone	50	40

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## TEST REPORT

### Ambient Noise Analysis

Report Code: N-110223-02

Issue Date: 11/11/2023

Issued To:


M/S. Shyam Steel Industries Ltd.  
Raturia Industrial Area, Angadpur, Durgapur- 713215,  
Paschim Bardhaman, West Bengal, India

Sample Drawn On : 05/11/2023 To 06/11/2023  
Sample Drawn By : ITS Representative  
Sample Received On : 11/11/2023  
Sample description : Ambient Noise  
Sampling Location : Near DRI Gate  
Sampling Duration : 24 hours  
Analysis Duration : 11/11/2023 To 11/11/2023

### TEST RESULTS

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB(A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	Equivalent Noise Level (6.0 Am To 10.0 Pm)	51.6	dB(A)	Industrial Area	75	70
2.	Equivalent Noise Level (10.0 Pm To 6.0 Am)	34.8	dB(A)	Commercial Area	65	55
3.	Lmax	57.3	dB(A)	Residential Area	55	45
4.	Lmin	30.0	dB(A)	Silence Zone	50	40

  
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