



SHYAM STEEL

SSIL/22-23/GM/272

Shyam Steel Industries Ltd

Shyam Towers, EN-32, Sector V, Salt Lake, Kolkata 700091

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CIN : U27100WB2002PLC094339

Date: 11-11-2022

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-11011/375/2008-IA.II (I) dated 30.09.2010 of Shyam Steel Industries Limited for Expansion of the Steel Plant for production of 2,30,000 TPA of TMT Bars and other steel items by installing induction furnace (2x15 MT), Ladle refining furnace (LRF, 1x30MT), Ferro Alloy Unit (2x9MVA), Electric Arc Furnace (EAF, 1x30MT) with one Billet Concaster (2x3 strands) and Rolling Mill (1x30 TPH) at Gopalpur (Unit 2), Bamunara, Durgapur, Dist. Paschim Bardhaman in West Bengal-713212. (For the period of April 2022 to September 2022)

Ref: Environment Clearance No. J-11011/375/2008-IA.II (I) dated 30.09.2010.

Dear Sir,

This has reference to the captioned subject and cited reference. It is to inform that we are herewith submitting six monthly compliance report for the conditions stipulated in the Environmental Clearance of Expansion of Steel Plant for production of 2,30,000 TPA of TMT Bars and other steel items by installing induction furnace (2x15 MT), Ladle refining furnace (LRF, 1x30MT), Ferro Alloy Unit (2x9MVA), Electric Arc Furnace (EAF, 1x30MT) with one Billet Concaster (2x3 strands) and Rolling Mill (1x30 TPH) for the period April 2022 to September 2022 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 for your kind perusal.

Hope the above are in line with the statutory requirements.

Thanking you,
Yours faithfully,

For Shyam Steel Industries Ltd.


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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

April 2022 to September 2022

**Shyam Steel Industries Limited,
Gopalpur, Durgapur**

Six Monthly Compliance Status report of Environmental Clearance from expansion of 2,30,000 TPA of TMT Bars and other steel items by installing induction furnace (2x15 MT), Ladle refining furnace (LRF, 1x30MT), Ferro Alloy Unit (2x9MVA), Electric Arc Furnace (EAF, 1x30MT) with one Billet Concaster (2x3 strands) and Rolling Mill (1x30 TPH).

ENVIRONMENTAL MANAGEMENT DEPARTMENT

SHYAM STEEL INDUSTRIES LIMITED

Six monthly compliance of conditions stipulated in Environmental Clearance of M/s Shyam Steel Industries Ltd. Expansion of the Steel Plant for production of 2,30,000 TPA of TMT Bars and other steel items by installing induction furnace (2x15 MT), Ladle refining furnace (LRF, 1x30MT), Ferro Alloy Unit (2x9MVA), Electric Arc Furnace (EAF, 1x30MT) with one Billet Concaster (2x3 strands) and Rolling Mill (1x30 TPH) at Gopalpur (Unit 2), Bamunara, Durgapur, Dist. Paschim Bardhaman, West Bengal-713212

(For the period of April 2022 to September 2022)

A. Specific Conditions		
Sr. No	Stipulated Conditions	Action taken / to be taken
i	Compliance to all the specific and general conditions stipulated for the existing plant by the Central/State Government shall be ensured and regular reports submitted to the Ministry and its Regional Office at Bhubaneswar.	A soft copy of six monthly compliance report along with monitoring data is submitted on every six months to the Regional Officer, Integrated Regional Office at Kolkata. Apart from that hard copy of the same is also submitted to WBPCB.
ii	Efforts shall be made to reduce RSPM levels in the ambient air. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), gas cleaning plant, and bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm ³ by installing energy efficient technology.	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 PM ₁₀ , PM _{2.5} , SO _x & NO _x . Accordingly necessary preventive steps are taken to reduce respirable suspended particulate matter in ambient air. Ambient air quality monitoring report is enclosed as Annexure-III. Monitoring frequency of various environmental parameters and other suggested improvements are implemented at working site as and when instructed.
iii	Fume extraction system shall be provided to induction furnaces to control the emissions within the prescribed standards.	Fume extraction system has been installed at induction furnace to control the emissions within the prescribed standards. Stack monitoring report is enclosed as Annexure-IV.
iv	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16th November, 2009 shall be followed.	The national ambient air quality standard issued by the Ministry vide GSR No. 826 (E) dated 16th Nov 2015 is followed (Please refer Annexure -III). Recent test results reveals that PM ₁₀ -ranges b/w 47.7 µg/m ³ - 61.5 µg/m ³ , PM _{2.5} (18.5µg/m ³ -27.3µg/m ³), SO ₂ (9.0µg/m ³ -13.9µg/m ³) and NO ₂ (14.6µg/m ³ -20.4µg/m ³) and all remain within permissible limit.

v	<p>Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored. Guidelines/Code of Practice issued by the CPCB shall be followed.</p>	<p>We ensure that preventive maintenance of all the potential sources are done on time to prevent the unwanted emissions. Fugitive air emission sources are identified and maintained properly to control the fugitive emissions at source itself.</p> <p>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>
vi	<p>Total water requirement shall not exceed 428m³/day. Permission from the Central Ground Water Authority (CGWA)/State Ground Water Board (SGWB) shall be obtained for drawl of ground water as may be applicable in this case. All the effluent shall be treated and used for ash handling, dust suppression and green belt development. No effluent shall be discharged and 'zero' discharge shall be adopted. Domestic sewage shall be treated in STP and treated effluent shall be used for green belt development. The water consumption shall not exceed as per the standard prescribed for the steel plants.</p>	<p>Ground water is withdrawn for sustaining all the necessary activities and due approval is taken from the authority. Water consumption is as per the standard prescribed for steel plants.</p> <p>There is no waste water discharged outside the plant premises and all the necessary protective measures are taken to ensure that plant is maintained as Zero Effluent Discharge. Domestic effluent collected from Canteen, Toilets & Offices are appropriately treated in septic tank followed by soak pits and subsequently used for green belt development within plant premises. Waste water monitoring report is enclosed as Annexure-V.</p>
vii	<p>Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.</p>	<p>Harvesting of rainwater is done through covered surface drains channelized from various facilities within the Steel plant into reservoir tank.</p> <p>Implementation of rain water harvesting measures is in progress.</p>
viii	<p>Regular monitoring of influent and effluent surface, sub-surface and ground water (including chromite) shall be ensured and treated wastewater should meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional Office at Bhubaneswar, WBPCB and CPCB.</p>	<p>Surface run-off quality is monitored in every two months and is ensured to meet the standards prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent. Water quality monitoring report is enclosed as Annexure-VI.</p>

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ix	Vehicular pollution due to transportation of raw material and finished products shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.	<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>Water sprinkling is done on the road, material unloading area & finished product loading area inside the plant to suppress the air borne dust.</p>
x	All internal roads shall be black topped. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier avenue plantation using native species shall be developed along the roads. Facilities for parking of trucks carrying raw coal from the linked coalmines shall be created within the Unit.	All internal roads are made of concrete and is regularly cleaned by engaging manpower along with the help of water tanker. Broad leaved plants are planted along the approach road to minimise the dust and noise pollution. We always maintain sufficient stock of coal linked to coalmine to avoid overcrowding of transporting trucks within the premises.
xi	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 should be submitted to the Ministry's Regional Office at Bhubaneswar, WBPCB and CPCB.	Wastes segregation at source is ensured and promoted and segregated wastes are 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. Analysis reports are submitted with six monthly EC compliance reports to the Ministry's Regional Office at Bhubaneswar, WBPCB and CPCB. Now onwards soft copy of EC compliance report will be submitted to Regional Officer, Integrated Regional Office, Kolkata. Solid waste report is enclosed as Annexure-VII.
xii	Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, WBPCB and CPCB within 3 months of issue of environment clearance letter.	It is already complied.
xiii	As proposed, green belt shall be developed in 33% of plant area as per the CPCB guidelines in consultation with the 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.

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		<p>Year wise details of plantation is enclosed as Annexure-I.</p> <p>The plantation has been raised comprising trees species like Chatim, Ashok, Bakul, kadam, Karanj & Neem etc.</p>
xiv	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the steel plants should be implemented.	<p>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.</p> <p>Status report of CREP recommendation is enclosed as Annexure-II.</p>
xv	All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 14th April, 2010 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhopal.	Commitments made to the public during the Public Hearing 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.
xvi	At least 5% of the total cost of the project should be earmarked towards the corporate social responsibility	Funds are allocated towards corporate social responsibility and expenditure is made judiciously towards CSR activities for the betterment of living standards of the villagers residing nearby.
xvii	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, crech 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.
B. General Conditions		
i	The project authorities must strictly adhere to the stipulations made by the West Bengal State Pollution Control Board and the State Government.	We will abide by the conditions stipulated by the West Bengal State Pollution Control Board and the State Government.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	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.

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iii	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	Stack monitoring is regularly done to monitor the emission level. Accordingly corrective actions are taken to make sure the emission level remain within the norms. We are complying the specific norms for the relevant parameters.
iv	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO2 and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.	Ambient air quality as well as stack emission 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. Furnaces are equipped with bag filters to control the Particulate Matter emission level below prescribed norms. Data on ambient air quality and stack emission report has been submitted up to 31.03.2022 to the Regional Office, MoEF&CC, Bhubaneswar and WBPCB. Now onwards report will be submitted to Regional Officer, Integrated Regional Office, Kolkata.
v	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	There is no waste water discharged outside the plant premises and all the necessary protective measures are taken to ensure that plant is maintained as Zero Effluent Discharge and the treated water is utilized for green belt development.
vi	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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time).	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 above 85dB. Noise level monitoring report is enclosed as Annexure-VIII.
vii	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Pre-placement and periodical medical examination of the workers & contract labours engaged in the plant are being done and records maintained for corrective measures. 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 713 & on contract is 1063. Personal protective equipment's are being provided to all workers respective to the



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		<p>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>
viii	<p>The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.</p>	<p>Channelization of Rainwater and further its collection to settling tank is ensured from all the facilities within the steel plant. Implementation of rain water harvesting measures is in progress.</p>
ix	<p>The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.</p>	<p>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.</p> <p>Company has contributed in healthcare sector by providing monetary and logistic support as mobile healthcare vehicle with well qualified medical staff & 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. To counter the covid pandemic company has made modern crematorium for proper last right to the deceased.</p> <p>Massive plantation drive by providing saplings to nearby schools and carried out avenue plantation outside factory premises for ecological restoration of surrounding. 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 & environmental sustainability.</p>

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x	Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.	Pollution control measures are implemented as per the funds allocated and its maintenance are being utilized to fulfil the conditions stipulated by the Ministry as well as the State Pollution Control Board.
xi	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	It is already complied.
xii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectorial parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Six monthly EC compliance is regularly uploaded on the company's website and updated. Environmental parameters are displayed at entrance of the plant.
xiii	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB/SPCB shall monitor the stipulated conditions.	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	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF at Bhubaneswar by e-mail.	It is being complied.

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xv	<p>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 SPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. 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>	<p>The environmental Clearance Letter has been advertised in two local newspapers namely "Business Standard" (English Daily) Dated. 05.11.2010 and Aajkal (Bengali Daily) Dated 06.11.2010.</p>
xvi	<p>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.</p>	<p>We will abide by the stipulated condition.</p>

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Details of Tree Plantation report for the period October'21 - March'22

MINISTRY OF ENVIRONMENT AND FORESTS		
INTEGRATED REGIONAL OFFICE		
KOLKATA IB – 198, SECTOR-III, SALT LAKE CITY, KOLKATA – 700106		
FORMAT FOR PROVIDING PARTICULARS ON GREEN BELT/ PLANTATION		
UNDER F (C) ACT 1980 AND E (P) ACT 1986		
1	a) Name of Project:	SHYAM STEEL INDUSTRIES LIMITED
	b) Env't./ Forest Clearance Nos.:	F No. J-11011/375/2008- IA II (I) Date-30.09.2010
2	Location, Block/ Sub. Divn./ Dist./ State:	Bamunara, Durgapur, Paschim Bardhaman, West Bengal
3	Address of communication:	Shyam Steel Industries Limited, Shyam Towers, EN- 32, ector- V, Salt Lake, Kolkata - 700091
4	Existing vegetation in the area/ region:	
	a) Species (trees/ shrubs/ grasses/ climbers):	Trees
	b) Major prevalent species of each type	Polyalthia Longifolia, Alstonia
5	Land coverage by the project	
	a) Total area under the project:	16 Acres Approx.
	b) Area covered for basic infrastructure (roads/ building/ factory etc.):	65%
6	Details about natural vegetation:	
	a) Name and number of plant of tree/ species felled:	Nil
	b) Name and number of plant species still available in the area:	Not Available
	c) By protecting the area will indigenous stock come up:	Yes
	d) Extent of greenbelt enveloped	20%
Plantations required to be carried out as per:		

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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	Details of plantation					
	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	800 Sqm	
	b) Plantation details (category wise & methodology used)					
	Year of Plantation	Species Planted	Spacing	Height Attained	Total Area Covered	Area Still Available
	2022	100 Saplings - Planted inside plant premises.	5- 6 Ft.	3 – 6 Ft.	0.1 Ha	Gap Filling
		750 Saplings - Planted outside the plant premises.			-	Gap Filling
		250 Saplings - Distributed to different social institutions and employees			-	
	c) Survival of Plantation					
	Year of Plantation	2017	2018	2019	2020	2021
	Total plantations (No.)	100	500	500	500	1000
	Survival (No.)	36	450	500	400	850
	Survival %	30	36	100	80	75

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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		360000	
	2	2020		360000	
	3	2021		480000	
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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Compliance status of CREP recommendation for the period April'21 - September'22

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/Nm ³ limit or particulate matter by December 2004 and continue working to reduce the emission of particulate matter to 50mg/Nm ³ .	
3	The new cement kilns to be accorded NOC/ Environmental Clearance w.e.f 01.04.2003 will meet the limit of 50 mg/Nm ³ for particulate matter emissions.	
4	CPCB will revoke load based standards by December 2003	
5	CPCB and NCBM will evolve SO ₂ 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 lime stones 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

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4	<p>SOLID WASTE/ HAZARDOUS WASTE MANAGEMENT- Utilisation of Steel Melting Shop (SMS)/ Blast Furnace (BF) slag as per the following schedule:</p> <ul style="list-style-type: none"> * By 2004 - 70% * By 2006 - 80% * By 2007 - 100% <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&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>	To be complied.
5	<p>WATER CONSERVATION/ WATER POLLUTION-</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	<p>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.</p>	Online stack monitoring system to be installed.
7	<p>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.</p>	To be complied.
8	<p>To implement the recommendations of Life Cycle Assessment (LCA) study sponsored by MoEF by December 2003.</p>	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"> - Energy recovery of top Blast Furnace (BF) gas. - Use of Tar- free runner linings. - De- dusting of Cast house at tap holes, runners, skimmers ladle and charging points. - Suppression of fugitive emissions using nitrogen gas or other inert gas. - 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. - Procession of the waste containing flux & ferrous wastes through waste recycling plant. - To implement rain water harvesting - Reduction Green House Gases by: <ul style="list-style-type: none"> Reduction in power consumption Use of by- products gases for power generation Promotion of Energy Optimisation Technology including energy/ audit - To set targets for resource conservation such as Raw material, energy and water consumption to match International Standards. - 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. - To improve overall housekeeping. 	NA
10	<p>SPONGE IRON PLANTS</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>	NA

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Ambient Air Quality report for the month of April'22 – September'22

ITS LABORATORY

Laboratory: A-91, Sector-80, Phase-2, Noida, Gautam Budh Nagar - 201301, (U.P)

M.: 09911659800, 9305780312, 09958849764, 07210888634

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

An ISO 9001: 2015, ISO 14001:2015, ISO 45001:2018 Certified Laboratory

Report Code AAQ-090722-01 (Page-1 of 2)

TEST REPORT**Ambient Air Quality Analysis**

Report Code: AAQ-090722-01

Issue Date: 13/09/2022

Issued To

: M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative
Date of Sampling : 06/09/2022 To 07/09/2022
Sample Description : Ambient Air
Sampling Location : Near Administrative Building Area
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/08
Analysis Duration : 09/09/2022 To 13/09/2022
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) 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 ₁₀)	IS:5182 Part-XXIII	59.1	µg /m ³	100
2.	Particulate Matter (PM _{2.5})	CPCB Volume – 1 / Gravimetric	22.4	µg /m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	11.8	µg /m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	17.2	µg /m ³	80
5.	Ammonia (as NH ₃)	APHA-AIR402	33.1	µg /m ³	400

Phauk
CHECKED BY

V.K.L.
AUTHORIZED SIGNATORY

Terms & Conditions :

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Report Code AAQ-090722-01 (Page-2 of 2)

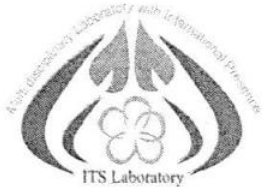
6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.26	mg/m ³	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m ³	1.0
8.	Ozone (as O ₃)	IS:5182 Part-IX	15.8	µg /m ³	180
9.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
10.	Benzo (a) Pyrine	IS:5182 Part-XI	<0.1	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0

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TC-6179

Report Code AAQ-090722-01 (Page-1 of 2)

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-090722-01

Issue Date: 13/07/2022

Issued To: **M/S. Shyam Steel Industries Ltd.**
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

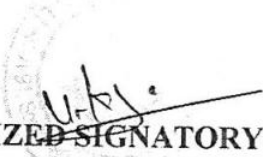
SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative
Date of Sampling : 06/07/2022 To 07/07/2022
Sample Description : Ambient Air
Sampling Location : Near Administrative Building Area
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/08
Analysis Duration : 09/07/2022 To 13/07/2022
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) 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 ₁₀)	IS:5182 Part-XXIII	59.2	µg /m ³	100
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	22.5	µg /m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	11.7	µg /m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	17.2	µg /m ³	80
5.	Ammonia (as NH ₃)	APHA-AIR402	33.1	µg /m ³	400


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Report Code AAQ-090722-01 (Page-2 of 2)

6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.26	mg/m ³	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m ³	1.0
8.	Ozone (as O ₃)	IS:5182 Part-IX	15.8	µg /m ³	180
9.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
10.	Benzo (a) Pyrine	IS:5182 Part-XI	<0.1	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0


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TC-6179

Report Code AAQ-090522-01 (Page-1 of 2)

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-090522-01

Issue Date: 13/05/2022

Issued To: **M/S. Shyam Steel Industries Ltd.**
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative
Date of Sampling : 06/05/2022 To 07/05/2022
Sample Description : Ambient Air
Sampling Location : **Near Administrative Building Area**
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/08
Analysis Duration : 09/05/2022 To 13/05/2022
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate
Sampler (PM_{2.5}) 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 ₁₀)	IS:5182 Part-XXIII	55.6	µg /m ³	100
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	19.2	µg /m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	10.1	µg /m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	14.6	µg /m ³	80
5.	Ammonia (as NH ₃)	APHA-AIR402	30.4	µg /m ³	400

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Report Code AAQ-090522-01 (Page-2 of 2)

6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.20	mg/m ³	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m ³	1.0
8.	Ozone (as O ₃)	IS:5182 Part-IX	13.1	µg /m ³	180
9.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
10.	Benzo (a) Pyrine	IS:5182 Part-XI	<0.1	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0

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Report Code AAQ-100722-02 (Page-1 of 2)

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-100722-02

Issue Date: 14/09/2022

Issued To : M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

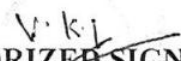
SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative
Date of Sampling : 07/09/2022 To 08/09/2022
Sample Description : Ambient Air
Sampling Location : Near Material Storage Area
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/08
Analysis Duration : 10/09/2022 To 14/09/2022
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate
Sampler (PM_{2.5}) With Gaseous Attachment
Weather Condition : Clear

TEST RESULT

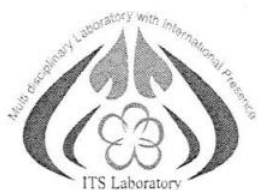
S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	55.6	µg /m ³	100
2.	Particulate Matter (PM _{2.5})	CPCB Volume - I / Gravimetric	26.5	µg /m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	13.9	µg /m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	20.4	µg /m ³	80
5.	Ammonia (as NH ₃)	APHA-AIR402	34.3	µg /m ³	400


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Report Code AAQ-100722-02 (Page-2 of 2)

6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.36	mg/m ³	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m ³	1.0
8.	Ozone (as O ₃)	IS:5182 Part-IX	14.6	µg /m ³	180
9.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
10.	Benzo (a) Pyrine	IS:5182 Part-XI	<0.1	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0


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TC-6179

Report Code AAQ-100722-02 (Page-1 of 2)

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-100722-02

Issue Date: 14/07/2022

Issued To: **M/S. Shyam Steel Industries Ltd.**
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative
Date of Sampling : 07/07/2022 To 08/07/2022
Sample Description : Ambient Air
Sampling Location : Near Material Storage Area
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/08
Analysis Duration : 10/07/2022 To 14/07/2022
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) 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 ₁₀)	IS:5182 Part-XXIII	55.7	µg /m ³	100
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	26.5	µg /m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	13.8	µg /m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	20.4	µg /m ³	80
5.	Ammonia (as NH ₃)	APHA-AIR402	34.2	µg /m ³	400


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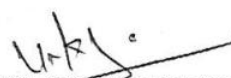
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An ISO 9001: 2015, ISO 14001:2015, ISO 45001:2018 Certified Laboratory)

Report Code AAQ-100722-02 (Page-2 of 2)

6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.37	mg/m ³	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m ³	1.0
8.	Ozone (as O ₃)	IS:5182 Part-IX	14.5	µg /m ³	180
9.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
10.	Benzo (a) Pyrine	IS:5182 Part-XI	<0.1	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0


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TC-6179

Report Code AAQ-100522-02 (Page-1 of 2)

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-100522-02

Issue Date: 14/05/2022

Issued To:

M/S. Shyam Steel Industries Ltd.

Bamunara Industrial Estate, P.O.- Bamunara,

Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative
Date of Sampling : 07/05/2022 To 08/05/2022
Sample Description : Ambient Air
Sampling Location : Near Material Storage Area
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/08
Analysis Duration : 10/05/2022 To 14/05/2022
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) 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 ₁₀)	IS:5182 Part-XXIII	58.3	µg / m ³	100
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	24.2	µg / m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	11.2	µg / m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	17.5	µg / m ³	80
5.	Ammonia (as NH ₃)	APHA-AIR402	31.4	µg / m ³	400

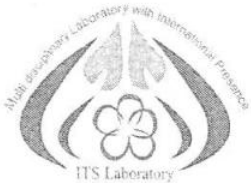
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Report Code AAQ-100522-02 (Page-2 of 2)

6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.30	mg/m ³	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m ³	1.0
8.	Ozone (as O ₃)	IS:5182 Part-IX	12.8	µg /m ³	180
9.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
10.	Benzo (a) Pyrine	IS:5182 Part-XI	<0.1	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0

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Report Code AAQ-120722-03 (Page-1 of 2)

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-120722-03

Issue Date: 16/09/2022

Issued To : M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

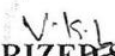
SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative
Date of Sampling : 09/09/2022 To 10/09/2022
Sample Description : Ambient Air
Sampling Location : Near Main Gate Area
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/08
Analysis Duration : 12/09/2022 To 16/09/2022
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate
Sampler (PM_{2.5}) With Gaseous Attachment
Weather Condition : Clear

TEST RESULT

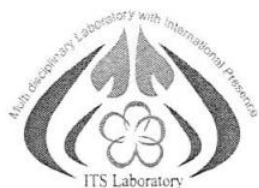
S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	61.5	µg /m ³	100
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	26.3	µg /m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	12.8	µg /m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	16.7	µg /m ³	80
5.	Ammonia (as NH ₃)	APHA-AIR402	34.2	µg /m ³	400


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ITS LABORATORY

Laboratory: A-91, Sector-80, Phase-2, Noida, Gautam Budh Nagar - 201301, (U.P)
M.: 09911659800, 9305780312, 09958849764, 07210888634
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An ISO 9001: 2015, ISO 14001:2015, ISO 45001:2018 Certified Laboratory)

Report Code AAQ-120722-03 (Page-2 of 2)

6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.26	mg/m ³	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m ³	1.0
8.	Ozone (as O ₃)	IS:5182 Part-IX	14.0	µg /m ³	180
9.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
10.	Benzo (a) Pyrine	IS:5182 Part-XI	<0.2	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0

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V. S. S.
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Report Code AAQ-120722-03 (Page-1 of 2)

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-120722-03

Issue Date: 16/07/2022

Issued To: **M/S. Shyam Steel Industries Ltd.**
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

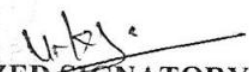
SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative
Date of Sampling : 09/07/2022 To 10/07/2022
Sample Description : Ambient Air
Sampling Location : Near Main Gate Area
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/08
Analysis Duration : 12/07/2022 To 16/07/2022
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) 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 ₁₀)	IS:5182 Part-XXIII	61.5	µg /m ³	100
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	26.2	µg /m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	12.9	µg /m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	16.5	µg /m ³	80
5.	Ammonia (as NH ₃)	APHA-AIR402	34.2	µg /m ³	400


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Report Code AAQ-120722-03 (Page-2 of 2)

6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.27	mg/m ³	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m ³	1.0
8.	Ozone (as O ₃)	IS:5182 Part-IX	14.0	µg /m ³	180
9.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0


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Report Code AAQ-120522-03 (Page-1 of 2)

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-120522-03

Issue Date: 16/05/2022

Issued To: M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative
Date of Sampling : 09/05/2022 To 10/05/2022
Sample Description : Ambient Air
Sampling Location : Near Main Gate Area
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/08
Analysis Duration : 12/05/2022 To 16/05/2022
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) 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 ₁₀)	IS:5182 Part-XXIII	57.1	µg /m ³	100
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	22.5	µg /m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	10.2	µg /m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	14.6	µg /m ³	80
5.	Ammonia (as NH ₃)	APHA-AIR402	31.7	µg /m ³	400

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Report Code AAQ-120522-03 (Page-2 of 2)

6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.24	mg/m ³	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m ³	1.0
8.	Ozone (as O ₃)	IS:5182 Part-IX	12.3	µg /m ³	180
9.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
10.	Benzo (a) Pyrine	IS:5182 Part-XI	<0.1	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0

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Report Code AAQ-130722-04 (Page-1 of 2)

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-130722-04

Issue Date: 16/09/2022

Issued To

: M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative
Date of Sampling : 10/09/2022 To 11/09/2022
Sample Description : Ambient Air
Sampling Location : Near RM Area
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/08
Analysis Duration : 13/09/2022 To 16/09/2022
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate
Sampler (PM_{2.5}) With Gaseous Attachment
Weather Condition : Clear

TEST RESULT

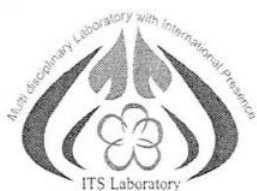
S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	54.7	µg /m ³	100
2.	Particulate Matter (PM _{2.5})	CPCB Volume - I / Gravimetric	21.8	µg /m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	10.5	µg /m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	17.1	µg /m ³	80
5.	Ammonia (as NH ₃)	APHA-AIR402	32.3	µg /m ³	400


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Report Code AAQ-130722-04 (Page-2 of 2)

6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.25	mg/m ³	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m ³	1.0
8.	Ozone (as O ₃)	IS:5182 Part-IX	13.6	µg /m ³	180
9.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
10.	Benzo (a) Pyrine	IS:5182 Part-XI	<0.1	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0


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TC-6179

Report Code AAQ-130722-04 (Page-1 of 2)

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-130722-04

Issue Date: 16/07/2022

Issued To: **M/S. Shyam Steel Industries Ltd.**
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative
Date of Sampling : 10/07/2022 To 11/07/2022
Sample Description : Ambient Air
Sampling Location : **Near RM Area**
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/08
Analysis Duration : 13/07/2022 To 16/07/2022
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) With Gaseous Attachment
Weather Condition : Clear

TEST RESULT

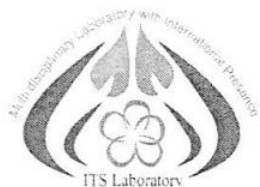
S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	54.8	µg /m ³	100
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	21.9	µg /m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	10.5	µg /m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	17.1	µg /m ³	80
5.	Ammonia (as NH ₃)	APHA-AIR402	32.2	µg /m ³	400


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Report Code AAQ-130722-04 (Page-2 of 2)

6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.25	mg/m ³	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m ³	1.0
8.	Ozone (as O ₃)	IS:5182 Part-IX	13.6	µg /m ³	180
9.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
10.	Benzo (a) Pyrine	IS:5182 Part-XI	<0.1	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0


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TC-6179

Report Code AAQ-130522-04 (Page-1 of 2)

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-130522-04

Issue Date: 16/05/2022

Issued To: M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative
Date of Sampling : 10/05/2022 To 11/05/2022
Sample Description : Ambient Air
Sampling Location : Near RM Area
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/08
Analysis Duration : 13/05/2022 To 16/05/2022
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate
Sampler (PM_{2.5}) 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 ₁₀)	IS:5182 Part-XXIII	50.1	µg /m ³	100
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	18.5	µg /m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	9.2	µg /m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	15.5	µg /m ³	80
5.	Ammonia (as NH ₃)	APHA-AIR402	30.6	µg /m ³	400

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Report Code AAQ-130522-04 (Page-2 of 2)

6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.22	mg/m ³	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m ³	1.0
8.	Ozone (as O ₃)	IS:5182 Part-IX	11.2	µg /m ³	180
9.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0

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Report Code AAQ-150722-05 (Page-1 of 2)

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-150722-05

Issue Date: 18/09/2022

Issued To : M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative
Date of Sampling : 12/09/2022 To 13/09/2022
Sample Description : Ambient Air
Sampling Location : Near SMS Area
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/08
Analysis Duration : 15/09/2022 To 18/09/2022
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate
Sampler (PM_{2.5}) 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 ₁₀)	IS:5182 Part-XXIII	50.4	µg /m ³	100
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	20.4	µg /m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	9.8	µg /m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	17.4	µg /m ³	80
5.	Ammonia (as NH ₃)	APHA-AIR402	36.9	µg /m ³	400

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V.K.
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Report Code AAQ-150722-05 (Page-2 of 2)

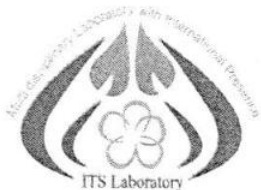
6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.20	mg/m ³	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m ³	1.0
8.	Ozone (as O ₃)	IS:5182 Part-IX	12.2	µg /m ³	180
9.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
10.	Benzo (a) Pyrine	IS:5182 Part-XI	<0.2	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0

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V.K.J.
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ITS LABORATORY

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M.: 09911659800, 9305780312, 09958849764, 07210888634

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



Report Code AAQ-150722-05 (Page-1 of 2)

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-150722-05

Issue Date: 18/07/2022

Issued To: M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India


SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative
Date of Sampling : 12/07/2022 To 13/07/2022
Sample Description : Ambient Air
Sampling Location : Near SMS Area
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/08
Analysis Duration : 15/07/2022 To 18/07/2022
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) 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 ₁₀)	IS:5182 Part-XXIII	50.3	µg /m ³	100
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	20.1	µg /m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	9.8	µg /m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	17.5	µg /m ³	80
5.	Ammonia (as NH ₃)	APHA-AIR402	36.9	µg /m ³	400


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Report Code AAQ-150722-05 (Page-2 of 2)

6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.20	mg/m ³	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m ³	1.0
8.	Ozone (as O ₃)	IS:5182 Part-IX	12.1	µg /m ³	180
9.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
10.	Benzo (a) Pyrine	IS:5182 Part-XI	<0.1	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0


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TC-6179

Report Code AAQ-140522-05 (Page-1 of 2)

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-140522-05

Issue Date: 17/05/2022

Issued To:

M/S. Shyam Steel Industries Ltd.

Bamunara Industrial Estate, P.O.- Bamunara,

Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative
 Date of Sampling : 11/05/2022 To 12/05/2022
 Sample Description : Ambient Air
 Sampling Location : Near SMS Area
 Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/08
 Analysis Duration : 14/05/2022 To 17/05/2022
 Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) 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 ₁₀)	IS:5182 Part-XXIII	47.7	µg /m ³	100
2.	Particulate Matter (PM _{2.5})	CPCB Volume - I / Gravimetric	18.5	µg /m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	9.0	µg /m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	16.2	µg /m ³	80
5.	Ammonia (as NH ₃)	APHA-AIR402	38.5	µg /m ³	400

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Report Code AAQ-140522-05 (Page-2 of 2)

6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.18	mg/m ³	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m ³	1.0
8.	Ozone (as O ₃)	IS:5182 Part-IX	10.5	µg /m ³	180
9.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0

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Report Code AAQ-160722-06 (Page-1 of 2)

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-160722-06

Issue Date: 20/09/2022

Issued To : M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative
Date of Sampling : 13/09/2022 To 14/09/2022
Sample Description : Ambient Air
Sampling Location : **Work Zone Area**
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/08
Analysis Duration : 16/09/2022 To 20/09/2022
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) With Gaseous Attachment
Weather Condition : Clear

TEST RESULT

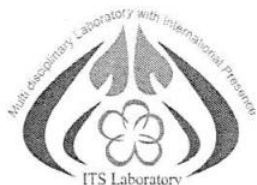
S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	56.7	µg /m ³	100
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	27.3	µg /m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	11.4	µg /m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	18.4	µg /m ³	80
5.	Ammonia (as NH ₃)	APHA-AIR402	34.6	µg /m ³	400


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Report Code AAQ-160722-06 (Page-2 of 2)

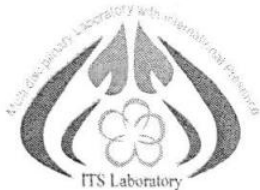
6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.32	mg/m ³	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m ³	1.0
8.	Ozone (as O ₃)	IS:5182 Part-IX	12.9	µg /m ³	180
9.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0


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Report Code AAQ-160722-06 (Page-1 of 2)

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-160722-06

Issue Date: 20/07/2022


Issued To: **M/S. Shyam Steel Industries Ltd.**
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative
Date of Sampling : 13/07/2022 To 14/07/2022
Sample Description : Ambient Air
Sampling Location : **Work Zone Area**
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/08
Analysis Duration : 16/07/2022 To 20/07/2022
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) With Gaseous Attachment
Weather Condition : Clear

TEST RESULT

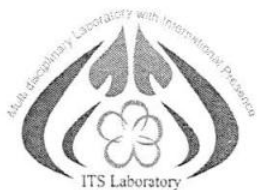
S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	56.8	µg /m ³	100
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	27.2	µg /m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	11.5	µg /m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	18.4	µg /m ³	80
5.	Ammonia (as NH ₃)	APHA-AIR402	34.7	µg /m ³	400


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Report Code AAQ-160722-06 (Page-2 of 2)

6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.32	mg/m ³	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m ³	1.0
8.	Ozone (as O ₃)	IS:5182 Part-IX	12.9	µg /m ³	180
9.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
10.	Benzo (a) Pyrine	IS:5182 Part-XI	<0.1	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0


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TC-6179

Report Code AAQ-160522-06 (Page-1 of 2)

TEST REPORT

Ambient Air Quality Analysis

Report Code: AAQ-160522-06

Issue Date: 20/05/2022

Issued To:

M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Drawn By : ITS Representative
Date of Sampling : 13/05/2022 To 14/05/2022
Sample Description : Ambient Air
Sampling Location : **Work Zone Area**
Sampling Plan & Procedure : ITS/LAB/SOP-AAQ/08
Analysis Duration : 16/05/2022 To 20/05/2022
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) 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 ₁₀)	IS:5182 Part-XXIII	60.2	µg /m ³	100
2.	Particulate Matter (PM _{2.5})	CPCB Volume - 1 / Gravimetric	25.6	µg /m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	9.8	µg /m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	15.6	µg /m ³	80
5.	Ammonia (as NH ₃)	APHA-AIR402	32.3	µg /m ³	400

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Report Code AAQ-160522-06 (Page-2 of 2)

6.	Carbon monoxide (as CO)	IS:5182 Part-X	0.28	mg/m ³	4.0
7.	Lead(as Pb)	IS:5182 Part-XXII	<1.0	µg /m ³	1.0
8.	Ozone (as O ₃)	IS:5182 Part-IX	13.5	µg /m ³	180
9.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
10.	Benzo (a) Pyrene	IS:5182 Part-XI	<0.1	ng /m ³	1.0
11.	Nickel (as Ni)	APHA-AIR420	<1.0	ng /m ³	20
12.	Arsenic (as As)	APHA-AIR302	<1.0	ng /m ³	6.0

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Stack Emission Monitoring report for the month of April'22 – September'22**ITS LABORATORY**

Laboratory: A-91, Sector-80, Phase-2, Noida, Gautam Budh Nagar - 201301, (U.P)
 M.: 09911659800, 9305780312, 09958849764, 07210888634
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 An ISO 9001: 2015, ISO 14001:2015, ISO 45001:2018 Certified Laboratory)

Report Code SE-090722-01 (Page-1 of 2)

TEST REPORT**Stack Emission Analysis**

Report Code: SE-090722-01

Issue Date: 13/09/2022

Issued To : M/S. Shyam Steel Industries Ltd.
 Bamunara Industrial Estate, P.O.- Bamunara,
 Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Drawn on : 07/09/2022
 Sample Drawn By : ITS Representative
 Sample Description : Stack Emission
 Sampling Time : 60 Minutes
 Sampling Plan & Procedure : SOP/SE/09
 Analysis Duration : 09/09/2022 To 13/09/2022
 Ambient Temperature (°C) : 39.0
 Stack Temperature (°C) : 235.0
 Source of Emission : **Stack Attached to SMS**
 Type of Fuel used : Electricity
 Operating Load : Normal
 Type of Stack : Metal Circular
 Stack Height from Ground Level (meter) : 30.0
 Average Velocity of Flue Emission (m/s) : 12.7
 Quantity of Emission Discharged (m³/hr) : 40953.10

TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Specification / Limit (As Per CPCB Norms)
1.	Particulate Matter (PM)	IS:11255(Part-1)	20.5	mg/Nm ³	-
2.	Sulphur Dioxide (SO ₂)	IS:11255(Part-2)	8.3	mg/Nm ³	-
3.	Nitrogen Dioxide (NO ₂)	IS:11255(Part-7)	16.5	mg/Nm ³	Not Specified

Phauk
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V.K.I.
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Report Code SE-090722-01 (Page-2 of 2)

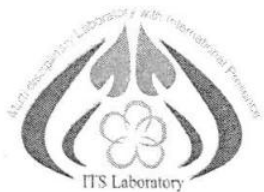
4.	CarbonMonoxide(CO)	IS:13270	0.07	% by Vol.	1% By Volume
5.	CarbonDioxide(CO2)	IS:13270	0.49	% by Vol.	Not Specified

Phauk
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V. K. L.
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Report Code SE-090722-01 (Page-1 of 2)

TEST REPORT

Stack Emission Analysis

Report Code: SE-090722-01

Issue Date: 13/07/2022

Issued To: **M/S. Shyam Steel Industries Ltd.**
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Drawn on : 07/07/2022
Sample Drawn By : ITS Representative
Sample Description : Stack Emission
Sampling Time : 60 Minutes
Sampling Plan & Procedure : SOP/SE/09
Analysis Duration : 09/07/2022 To 13/07/2022
Ambient Temperature (°C) : 36.0
Stack Temperature (°C) : 235.0
Source of Emission : **Stack Attached to SMS**
Type of Fuel used : Electricity
Operating Load : Normal
Type of Stack : Metal Circular
Stack Height from Ground Level (meter) : 30.0
Average Velocity of Flue Emission (m/s) : 12.5
Quantity of Emission Discharged (m³/hr) : 40933.10

TEST RESULT

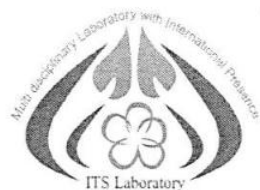
S.N.	Parameter	Test Method	Results	Units	Specification / Limit (As Per CPCB Norms)
1.	Particulate Matter (PM)	IS:11255(Part-1)	20.1	mg/Nm ³	-
2.	Sulphur Dioxide (SO ₂)	IS:11255(Part-2)	8.4	mg/Nm ³	-
3.	Nitrogen Dioxide (NO ₂)	IS:11255(Part-7)	16.5	mg/Nm ³	Not Specified


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Report Code SE-090722-01 (Page-2 of 2)

4.	CarbonMonoxide(CO)	IS:13270	0.07	% by Vol.	1% By Volume
5.	CarbonDioxide(CO2)	IS:13270	0.49	% by Vol.	Not Specified


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TC-6179

Report Code SE-090522-01 (Page-1 of 2)

TEST REPORT

Stack Emission Analysis

Report Code: SE-090522-01

Issue Date: 13/05/2022

Issued To:

M/S. Shyam Steel Industries Ltd.

Bamunara Industrial Estate, P.O.- Bamunara,

Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

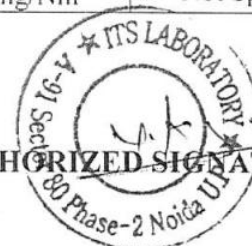
Sample Drawn on : 07/05/2022
Sample Drawn By : ITS Representative
Sample Description : Stack Emission
Sampling Time : 60 Minutes
Sampling Plan & Procedure : SOP/SE/09
Analysis Duration : 09/05/2022 To 13/05/2022
Ambient Temperature (°C) : 43.0
Stack Temperature (°C) : 241.0
Source of Emission : Stack Attached to SMS
Type of Fuel used : Electricity
Operating Load : Normal
Type of Stack : Metal Circular
Stack Height from Ground Level (meter) : 30.0
Average Velocity of Flue Emission (m/s) : 13.8
Quantity of Emission Discharged (m³/hr) : 40776.7

TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Specification / Limit (As Per CPCB Norms)
1.	Particulate Matter (PM)	IS:11255(Part-1)	17.5	mg/Nm ³	-
2.	Sulphur Dioxide (SO ₂)	IS:11255(Part-2)	9.1	mg/Nm ³	-
3.	Nitrogen Dioxide (NO ₂)	IS:11255(Part-7)	15.1	mg/Nm ³	Not Specified

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Report Code SE-090522-01 (Page-2 of 2)

4.	CarbonMonoxide(CO)	IS:13270	0.09	% by Vol.	1% By Volume
5.	CarbonDioxide(CO2)	IS:13270	0.55	% by Vol.	Not Specified

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Waste Water Analysis report for the month of April'22 – September'22

ITS LABORATORY

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TEST REPORT

Waste Water Sample Analysis

Report Code: WW-090722-01

Issue Date: 13/09/2022

Issue To : M/S. Shyam Steel Industries Ltd.
 Bamunara Industrial Estate, P.O.- Bamunara,
 Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Drawn On : 07/09/2022
 Sample Received On : 09/09/2022
 Sample Drawn By : ITS Representative
 Sample Description : Waste Water from Project Site
 Sample Quantity/Packing detail : 5ltr. in Plastic Cane & 500ml in Glass Bottle
 Analysis Duration : 09/09/2022 To 13/09/2022

TEST RESULTS

S.No.	Parameter	Test Method	Results	Units	Limit as per CPCB Norms
1.	pH	IS:3025(Part-11):1983	7.32	-	5.5 – 9.0
2.	Total Suspended Solid (TSS)	IS:3025(Part-17):1984	58.1	mg/l	100 max
3.	Chemical Oxygen Demand (as O ₂)	APHA 5220 B:2005	83.0	mg/l	250 max
4.	Biological Oxygen Demand (as O ₂)	IS:3025(Part-44):1993	16.4	mg/l	30 max
5.	Oil & grease	IS:3025(Part-39):1984	<1.0	mg/l	10 max

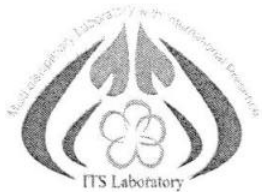
Remark: CPCB- Central Pollution Control Board.

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V.K.I.
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TEST REPORT

Waste Water Sample Analysis

Report Code: WW-090722-01

Issue Date: 13/07/2022

Issue To : M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Drawn On : 07/07/2022
Sample Received On : 09/07/2022
Sample Drawn By : ITS Representative
Sample Description : Waste Water from Project Site
Sample Quantity/Packing detail : 5ltr. in Plastic Cane & 500ml in Glass Bottle
Analysis Duration : 09/07/2022 To 13/07/2022

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	58.0	mg/l	100 max
3.	Chemical Oxygen Demand (as O ₂)	APHA 5220 B:2005	83.0	mg/l	250 max
4.	Biological Oxygen Demand (as O ₂)	IS:3025(Part-44):1993	16.5	mg/l	30 max
5.	Oil & grease	IS:3025(Part-39):1984	<1.0	mg/l	10 max

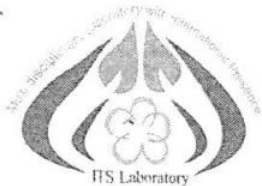
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TC-6179

TEST REPORT

Waste Water Sample Analysis

Report Code: WW-090522-01

Issue Date: 13/05/2022

Issue To : M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Drawn On : 07/05/2022
Sample Received On : 09/05/2022
Sample Drawn By : ITS Representative
Sample Description : Waste Water from Project Site
Sample Quantity/Packing detail : 5ltr. in Plastic Cane & 500ml in Glass Bottle
Analysis Duration : 09/05/2022 To 13/05/2022

TEST RESULTS					
S.No.	Parameter	Test Method	Results	Units	Limit as per CPCB Norms
1.	pH	IS:3025(Part-11):1983	7.29	-	5.5 – 9.0
2.	Total Suspended Solid (TSS)	IS:3025(Part-17):1984	43.0	mg/l	100 max
3.	Chemical Oxygen Demand (as O ₂)	APHA 5220 B:2005	75.0	mg/l	250 max
4.	Biological Oxygen Demand (as O ₂)	IS:3025(Part-44):1993	16.0	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 April'22 – September'22

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Report Code: W-090722-01 (Page- 1 of 2)

TEST REPORT**Water Sample Analysis**

Report Code: W-090722-01

Issue Date: 13/09/2022

Issue To : M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Received On : 09/09/2022
Sample Drawn By : ITS Representative
Sample Description : Drinking Water from Project Site
Sample Drawn On : 07/09/2022
Sample Quantity : 4.0 Liter Plastic Bottle & 500ml in Glass Bottle.
Analysis Duration : 09/09/2022 To 13/09/2022

S.No.	Parameters	Units	Limits (as per IS:10500-2012)		Results	Test Method
			Desirable Limit	Permissible Limit		
1	Color	Hazen	5	15	<5	IS:3025(Pt-4)
2	Odour	-	Agreeable	Agreeable	Agreeable	IS:3025(Pt-5)
3	Turbidity	NTU	1	5	<1	IS:3025(Pt-10)
4	pH	-	6.5-8.5	No Relaxation	7.14	IS:3025(Pt-11)
5	Total Hardness (as CaCO ₃)	mg/l	200	600	78.0	IS:3025(Pt-21)
6	Iron (as Fe)	mg/l	0.3	No Relaxation	<0.1	APHA22 nd Ed., 3120
7	Chlorides (as Cl)	mg/l	250	1000	25.4	IS:3025(Pt-32)
8	Fluoride (as F)	mg/l	1	1.5	<0.1	APHA22 nd Ed., 4500F(D)
9	TDS	mg/l	500	2000	134	IS:3025(Pt-16)
10	Calcium (as Ca ²⁺)	mg/l	75	200	20.8	IS:3025(Pt-40)
11	Magnesium (as Mg ²⁺)	mg/l	30	100	6.30	APHA22 nd Ed., 3500-Mg(B)
12	Sulphate (as SO ₄)	mg/l	200	400	11.2	IS:3025(Pt-24)
13	Free Residual Chlorine	mg/l	0.2	1	Nil	IS:3025(Pt-26)

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V.K.J.
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Report Code: W-090722-01 (Page- 2 of 2)

14	Copper (as Cu)	mg/l	0.05	1.5	<0.01	APHA22 nd Ed.,3120B/3111 B(AAS)
15	Cadmium(asCd)	mg/l	0.002	NoRelaxation	<0.001	APHA 22 nd Ed.. 3120 B / 3111 B (AAS)
16	Arsenic(asAs)	mg/l	0.01	0.05	<0.01	APHA 22 nd Ed., 3120 B / 3114, AAS- VGA
17	Cyanide(asCN)	mg/l	0.05	NoRelaxation	<0.01	APHA 22 nd Ed., 4500CN
18	Lead(asPb)	mg/l	0.01	NoRelaxation	<0.01	APHA 22 nd Ed., 3120 B / 3111 BAAS
19	Zinc(asZn)	mg/l	5	15	<0.01	APHA 22 nd Ed., 3120 B/ 3111 B (AAS)
20	Nickel(asNi)	mg/l	0.03	NoRelaxation	<0.01	APHA 3111 (B)
21	Chromium(asCr ⁶⁺)	mg/l	0.04	NoRelaxation	<0.01	IS:3025(Pt-52)
22	Alkalinity(asCaCO ₃)	mg/l	191	600	72.0	IS:3025(Pt-23)
23	Aluminum(asAl)	mg/l	0.02	0.2	<0.02	APHA 22 nd Ed3120 B / 3111 B (AAS) / IS3025 (pt-55)
24	Conductivityat25°C	mS	Not Specified	NotSpecified	258.0	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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Report Code: W-090722-01 (Page- 1 of 2)

TEST REPORT

Water Sample Analysis

Report Code: W-090722-01

Issue Date: 13/07/2022

Issue To : M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Received On : 09/07/2022
Sample Drawn By : ITS Representative
Sample Description : **Drinking Water from Project Site**
Sample Drawn On : 07/07/2022
Sample Quantity : 4.0 Liter Plastic Bottle & 500ml in Glass Bottle.
Analysis Duration : 09/07/2022 To 13/07/2022

S.No.	Parameters	Units	Limits (as per IS:10500-2012)		Results	Test Method
			Desirable Limit	Permissible Limit		
1	Color	Hazen	5	15	<5	IS:3025(Pt-4)
2	Odour	-	Agreeable	Agreeable	Agreeable	IS:3025(Pt-5)
3	Turbidity	NTU	1	5	<1	IS:3025(Pt-10)
4	pH	-	6.5-8.5	No Relaxation	7.18	IS:3025(Pt-11)
5	Total Hardness (as CaCO ₃)	mg/l	200	600	78.0	IS:3025(Pt-21)
6	Iron (as Fe)	mg/l	0.3	No Relaxation	<0.1	APHA22 nd Ed.,3120
7	Chlorides (as Cl)	mg/l	250	1000	25.5	IS:3025(Pt-32)
8	Fluoride (as F)	mg/l	1	1.5	<0.1	APHA22 nd Ed., 4500F(D)
9	TDS	mg/l	500	2000	136	IS:3025(Pt-16)
10	Calcium (as Ca ²⁺)	mg/l	75	200	20.8	IS:3025(Pt-40)
11	Magnesium (as Mg ²⁺)	mg/l	30	100	6.35	APHA22 nd Ed.,3500- Mg(B)
12	Sulphate (as SO ₄)	mg/l	200	400	11.4	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-090722-01 (Page- 2 of 2)

14	Copper (as Cu)	mg/l	0.05	1.5	<0.01	APHA22 nd Ed.,3120B/3111 B(AAS)
15	Cadmium(asCd)	mg/l	0.002	NoRelaxation	<0.001	APHA 22 nd Ed.. 3120 B / 3111 B (AAS)
16	Arsenic(asAs)	mg/l	0.01	0.05	<0.01	APHA 22 nd Ed., 3120 B / 3114, AAS- VGA
17	Cyanide(asCN)	mg/l	0.05	NoRelaxation	<0.01	APHA 22 nd Ed., 4500CN
18	Lead(asPb)	mg/l	0.01	NoRelaxation	<0.01	APHA 22 nd Ed., 3120 B / 3111 BAAS
19	Zinc(asZn)	mg/l	5	15	<0.01	APHA 22 nd Ed., 3120 B/ 3111 B (AAS)
20	Nickel(asNi)	mg/l	0.03	NoRelaxation	<0.01	APHA 3111 (B)
21	Chromium(asCr ⁶⁺)	mg/l	0.04	NoRelaxation	<0.01	IS:3025(Pt-52)
22	Alkalinity(asCaCO ₃)	mg/l	191	600	72.0	IS:3025(Pt-23)
23	Aluminum(asAl)	mg/l	0.02	0.2	<0.02	APHA 22 nd Ed3120 B / 3111 B (AAS) / IS3025 (pt-55)
24	Conductivityat25 ⁰ C	mS	Not Specified	NotSpecified	258.0	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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Report Code: W-090522-01 (Page- 1 of 2)

TEST REPORT

Water Sample Analysis

Report Code: W-090522-01

Issue Date: 13/05/2022

Issue To : M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

SAMPLING & ANALYSIS DATA

Sample Received On : 09/05/2022
Sample Drawn By : ITS Representative
Sample Description : **Drinking Water from Project Site**
Sample Drawn On : 07/05/2022
Sample Quantity : 4.0 Liter Plastic Bottle & 500ml in Glass Bottle.
Analysis Duration : 09/05/2022 To 13/05/2022

S. No.	Parameters	Units	Limits (as per IS:10500-2012)		Results	Test Method
			Desirable Limit	Permissible Limit		
1	Color	Hazen	5	15	<5	IS:3025(Pt-4)
2	Odour	-	Agreeable	Agreeable	Agreeable	IS:3025(Pt-5)
3	Turbidity	NTU	1	5	<1	IS:3025(Pt-10)
4	pH	-	6.5-8.5	No Relaxation	7.25	IS:3025(Pt-11)
5	Total Hardness (as CaCO ₃)	mg/l	200	600	90.5	IS:3025(Pt-21)
6	Iron (as Fe)	mg/l	0.3	No Relaxation	<0.1	APHA22 nd Ed., 3120
7	Chlorides (as Cl)	mg/l	250	1000	18.2	IS:3025(Pt-32)
8	Fluoride (as F)	mg/l	1	1.5	<0.1	APHA22 nd Ed., 4500F(D)
9	TDS	mg/l	500	2000	150	IS:3025(Pt-16)
10	Calcium (as Ca ²⁺)	mg/l	75	200	17	IS:3025(Pt-40)
11	Magnesium (as Mg ²⁺)	mg/l	30	100	5.1	APHA22 nd Ed., 3500-Mg(B)
12	Sulphate (as SO ₄)	mg/l	200	400	20	IS:3025(Pt-24)
13	Free Residual Chlorine	mg/l	0.2	1	Nil	IS:3025(Pt-26)

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ITS LABORATORY

Laboratory: A-91, Sector-80, Phase-2, Noida, Gautam Budh Nagar - 201301, (U.P)

M.: 09911659800, 9305780312, 09958849764, 07210888634

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

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

Report Code: W-060422-01 (Page- 2 of 2)

14	Copper (as Cu)	mg/l	0.05	1.5	<0.01	APHA22 nd Ed., 3120B/3111 B(AAS)
15	Cadmium(asCd)	mg/l	0.002	NoRelaxation	<0.001	APHA 22 nd Ed., 3120 B / 3111 B (AAS)
16	Arsenic(asAs)	mg/l	0.01	0.05	<0.01	APHA 22 nd Ed., 3120 B / 3114, AAS- VGA
17	Cyanide(asCN)	mg/l	0.05	NoRelaxation	<0.01	APHA 22 nd Ed., 4500CN
18	Lead(asPb)	mg/l	0.01	NoRelaxation	<0.01	APHA 22 nd Ed., 3120 B / 3111 BAAS
19	Zinc(asZn)	mg/l	5	15	<0.01	APHA 22 nd Ed., 3120 B/ 3111 B (AAS)
20	Nickel(asNi)	mg/l	0.03	NoRelaxation	<0.01	APHA 3111 (B)
21	Chromium(asCr ⁶⁺)	mg/l	0.04	NoRelaxation	<0.01	IS:3025(Pt-52)
22	Alkalinity(asCaCO ₃)	mg/l	191	600	72.0	IS:3025(Pt-23)
23	Aluminum(asAl)	mg/l	0.02	0.2	<0.02	APHA 22 nd Ed3120 B / 3111 B (AAS) / IS3025 (pt-55)
24	Conductivityat25°C	mS	Not Specified	NotSpecified	270.0	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	E.coli/100ml		Shall Not Be Detectable	Absent	IS:1622-1981(Reaff.2003)

CHECKED BY

AUTHORIZED SIGNATORY



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Solid Waste Analysis report for the month of April'22 – September'22

ITS LABORATORY

Laboratory: A-91, Sector-80, Phase-2, Noida, Gautam Budh Nagar - 201301, (U.P)
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Report Code: SW-090722-01, Page 1 of 2

TEST REPORT

Solid Waste Sample analysis

Report Code: SW: 090722-01

Issue Date: 13/09/2022

Issued To : M/S. Shyam Steel Industries Ltd.
 Bamunara Industrial Estate, P.O.- Bamunara,
 Durgapur- 713212, Paschim Bardhaman, West Bengal, India

Sample Received On : 09/09/2022
 Sample Drawn On : 07/09/2022
 Sample Drawn By : ITS Representative
 Sampling Location : Slag Dumping Yard(SMS)
 Sample Description : Solid Waste (Induction Furnace Slag)
 Sample Quantity : 5.Kg.
 Job Start Date : 09/09/2022
 Job Completion date : 13/09/2022

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	4.6	-	100.0mg/l
6.	Carbon Tetra Chloride	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
7.	Chlorodane	EPA8081A	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
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	EPA8081A	BDL(DL:0.1µg/l)	-	0.13mg/l
17.	m-Cresol	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
18.	Methoxychlor	EPA8081A	BDL(DL:0.1µg/l)	-	10.0mg/l
19.	Methyl Ethyle Ketone	By GC-MS(DCM-Extraction)	Absent	-	200.0mg/l

Phau
 Checked by

V. K. S.
 Authorized Signatory

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

Report Code: SW-090722-01, 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.	2,4,5Trichlorophenol	EPA8081A	BDL(DL:0.1µg/l)	-	400.0mg/l
27.	Barium (as Ba)	EPA200.8	5.5	-	100.0mg/l
28.	Cadmium (as Cd)	EPA200.8	BDL(DL:0.1µg/l)	-	1.0mg/l
29.	Total Chromium (as Cr)	EPA200.8	0.21	-	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	0.10mg/l	-	-
37.	Hexavalent Chromium (as Cr ⁺⁶)	By GC-MS/EPA	BDL(DL:0.5mg/kg)	-	-
38.	Endrin	EPA8081A	BDL(DL:0.1µg/l)	-	0.02mg/l
39.	Heptachlor	EPA8081A	BDL(DL:0.1µg/l)	-	0.008mg/l
40.	Lindane	EPA8081A	BDL(DL:0.1µg/l)	-	0.4mg/l
41.	Nitrobenzene	By GC-MS (Purge & Trap)	Absent	-	2.0mg/l

Phawb
Checked by

V. K. J.
Authorized Signatory

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Report Code: SW-090722-01, Page 1 of 2

TEST REPORT

Solid Waste Sample analysis

Report Code: SW: 090722-01

Issue Date: 13/07/2022

Issued To

: M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

Sample Received On : 09/07/2022
Sample Drawn On : 07/07/2022
Sample Drawn By : ITS Representative
Sampling Location : Slag Dumping Yard(SMS)
Sample Description : Solid Waste (Induction Furnace Slag)
Sample Quantity : 5 Kg.
Job Start Date : 09/07/2022
Job Completion date : 13/07/2022

TEST RESULT

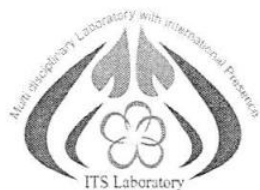
S. No.	Test Parameters	Protocol By TCLP	Results	Requirement / Limit As Per EPA Chapter- 7	
				Min.	Max.
1.	1,2Dichloroethane	EPA 5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
2.	2,4-D	EPA8151A	BDL(DL:0.1µg/l)	-	10.0mg/l
3.	2,4,6Trichlorophenol	EPA8041A	BDL(DL:0.1µg/l)	-	2.0mg/l
4.	Benzene	EPA5030C	BDL(DL:0.1µg/l)	-	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	EPA8081A	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
11.	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	EPA8081A	BDL(DL:0.1µg/l)	-	0.13mg/l
17.	m-Cresol	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
18.	Methoxychlor	EPA8081A	BDL(DL:0.1µg/l)	-	10.0mg/l
19.	Methyl Ethyle Ketone	By GC-MS(DCM-Etraction)	Absent	-	200.0mg/l

Checked by

Authorized Signatory

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Report Code: SW-090722-01, 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-Etraction)	Absent	-	5.0mg/l
23.	Tetrachloroethylene	EPA5030C	BDL(DL:0.1µg/l)	-	0.7mg/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	EPA8081A	BDL(DL:0.1µg/l)	-	400.0mg/l
27.	Barium (as Ba)	EPA200.8	5.7	-	100.0mg/l
28.	Cadmium (as Cd)	EPA200.8	BDL(DL:0.1µg/l)	-	1.0mg/l
29.	Total Chromium (as Cr)	EPA200.8	0.24	-	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	0.10mg/l	-	-
37.	Hexavalent Chromium (as Cr ⁺⁶)	By GC-MS/EPA	BDL(DL:0.5mg/kg)	-	-
38.	Endrin	EPA8081A	BDL(DL:0.1µg/l)	-	0.02mg/l
39.	Heptachlor	EPA8081A	BDL(DL:0.1µg/l)	-	0.008mg/l
40.	Lindane	EPA8081A	BDL(DL:0.1µg/l)	-	0.4mg/l
41.	Nitrobenzene	By GC-MS (Purge & Trap)	Absent	-	2.0mg/l

Checked by

Authorized Signatory

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Report Code: SW-090522-01, Page 1 of 2

TEST REPORT

Solid Waste Sample analysis

Report Code: SW: 090522-01

Issue Date: 13/05/2022

Issued To

: M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

Sample Received On : 09/05/2022
Sample Drawn On : 07/05/2022
Sample Drawn By : ITS Representative
Sampling Location : Slag Dumping Yard (SMS)
Sample Description : Solid Waste (Induction Furnace Slag)
Sample Quantity : 5 Kg.
Job Start Date : 09/05/2022
Job Completion date : 13/05/2022

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	4.2	-	100.0mg/l
6.	Carbon Tetra Chloride	EPA5030C	BDL(DL:0.1µg/l)	-	0.5mg/l
7.	Chlorodane	EPA8081A	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
11.	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	EPA8081A	BDL(DL:0.1µg/l)	-	0.13mg/l
17.	m-Cresol	EPA8041A	BDL(DL:0.1µg/l)	-	200.0mg/l
18.	Methoxychlor	EPA8081A	BDL(DL:0.1µg/l)	-	10.0mg/l
19.	Methyl Ethyle Ketone	By GC-MS(DCM-Etraction)	Absent	-	200.0mg/l

Checked by

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Report Code: SW-090522-01, 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.	2,4,5Trichlorophenol	EPA8081A	BDL(DL:0.1µg/l)	-	400.0mg/l
27.	Barium (as Ba)	EPA200.8	6.1	-	100.0mg/l
28.	Cadmium (as Cd)	EPA200.8	BDL(DL:0.1µg/l)	-	1.0mg/l
29.	Total Chromium (as Cr)	EPA200.8	0.3	-	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	0.11mg/l	-	-
37.	Hexavalent Chromium (as Cr ⁶⁺)	By GC-MS/EPA	BDL(DL:0.5mg/kg)	-	-
38.	Endrin	EPA8081A	BDL(DL:0.1µg/l)	-	0.02mg/l
39.	Heptachlor	EPA8081A	BDL(DL:0.1µg/l)	-	0.008mg/l
40.	Lindane	EPA8081A	BDL(DL:0.1µg/l)	-	0.4mg/l
41.	Nitrobenzene	By GC-MS (Purge & Trap)	Absent	-	2.0mg/l

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Noise Level Monitoring report for the month of April'22 – September'22**ITS LABORATORY**

Laboratory: A-91, Sector-80, Phase-2, Noida, Gautam Budh Nagar - 201301, (U.P)

M.: 09911659800, 9305780312, 09958849764, 07210888634

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

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

TEST REPORT**Ambient Noise Analysis**

Report Code: N-090722-01

Issue Date: 13/09/2022

Issued To : M/S. Shyam Steel Industries Ltd.
 Bamunara Industrial Estate, P.O.- Bamunara,
 Durgapur- 713212, Paschim Bardhaman, West Bengal, India

Sample Drawn On : 06/09/2022 To 07/09/2022
 Sample Drawn By : ITS Representative
 Sample Received On : 09/09/2022
 Sample description : Ambient Noise
 Sampling Location : Near Administrative Building Area
 Sampling Duration : 24 hours
 Analysis Duration : 09/09/2022 To 13/09/2022

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)	54.7	dB(A)	Industrial Area	75	70
2.	Equivalent Noise Level (10.0 Pm To 6.0 Am)	31.4	dB(A)	Commercial Area	65	55
3.	Lmax	59.2	dB(A)	Residential Area	55	45
4.	Lmin	27.8	dB(A)	Silence Zone	50	40

Phaulb
 CHECKED BY

V.K.J.
 AUTHORIZED SIGNATORY

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4. Total liability of our laboratory is limited to invoiced amount.



ITS LABORATORY

Laboratory: A-91, Sector-80, Phase-2, Noida, Gautam Budh Nagar - 201301, (U.P)

M.: 09911659800, 9305780312, 09958849764, 07210888634

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

An ISO 9001: 2015, ISO 14001:2015, ISO 45001:2018 Certified Laboratory



TC-6179

TEST REPORT

Ambient Noise Analysis

Report Code: N-090722-01

Issue Date: 13/07/2022

Issued To:

M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

Sample Drawn On : 06/07/2022 To 07/07/2022
Sample Drawn By : ITS Representative
Sample Received On : 09/07/2022
Sample description : Ambient Noise
Sampling Location : Near Administrative Building Area
Sampling Duration : 24 hours
Analysis Duration : 09/07/2022 To 13/07/2022

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)	54.8	dB(A)	Industrial Area	75	70
2.	Equivalent Noise Level (10.0 Pm To 6.0 Am)	31.5	dB(A)	Commercial Area	65	55
3.	Lmax	59.2	dB(A)	Residential Area	55	45
4.	Lmin	27.9	dB(A)	Silence Zone	50	40

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TC-6179

TEST REPORT

Ambient Noise Analysis

Report Code: N-090522-01

Issue Date: 13/05/2022

Issued To:

M/S. Shyam Steel Industries Ltd.
Bamunara Industrial Estate, P.O.- Bamunara,
Durgapur- 713212, Paschim Bardhaman, West Bengal, India

Sample Drawn On : 06/05/2022 To 07/05/2022
Sample Drawn By : ITS Representative
Sample Received On : 09/05/2022
Sample description : Ambient Noise
Sampling Location : Near Administrative Building Area
Sampling Duration : 24 hours
Analysis Duration : 09/05/2022 To 13/05/2022

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)	53.5	dB(A)	Industrial Area	75	70
2.	Equivalent Noise Level (10.0 Pm To 6.0 Am)	32.9	dB(A)	Commercial Area	65	55
3.	Lmax	58.8	dB(A)	Residential Area	55	45
4.	Lmin	29.7	dB(A)	Silence Zone	50	40

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TEST REPORT

Ambient Noise Analysis

Report Code: N-100722-02

Issue Date: 14/09/2022

Issued To

: M/S. Shyam Steel Industries Ltd.

Bamunara Industrial Estate, P.O.- Bamunara,


Durgapur- 713212, Paschim Bardhaman, West Bengal, India

Sample Drawn On : 07/09/2022 To 08/09/2022
Sample Drawn By : ITS Representative
Sample Received On : 10/09/2022
Sample description : Ambient Noise
Sampling Location : Near Vill.- Side Boundary Wall Area
Sampling Duration : 24 hours
Analysis Duration : 10/09/2022 To 14/09/2022

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)	52.3	dB(A)	Industrial Area	75	70
2.	Equivalent Noise Level (10.0 Pm To 6.0 Am)	32.9	dB(A)	Commercial Area	65	55
3.	Lmax	57.6	dB(A)	Residential Area	55	45
4.	Lmin	28.6	dB(A)	Silence Zone	50	40


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Ambient Noise Analysis

Report Code: N-100722-02

Issue Date: 14/07/2022

Issued To:

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Sample Drawn On : 07/07/2022 To 08/07/2022
Sample Drawn By : ITS Representative
Sample Received On : 10/07/2022
Sample description : Ambient Noise
Sampling Location : Near Vill.- Side Boundary Wall Area
Sampling Duration : 24 hours
Analysis Duration : 10/07/2022 To 14/07/2022

TEST RESULTS

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines)		
				Limits in dB (A) Leq		
1.	Equivalent Noise Level (6.0 Am To 10.0 Pm)	52.4	dB(A)	Category of Area/ Zone	Day Time	Night Time
				Industrial Area	75	70
2.	Equivalent Noise Level (10.0 Pm To 6.0 Am)	32.9	dB(A)	Commercial Area	65	55
3.	Lmax	57.8	dB(A)	Residential Area	55	45
4.	Lmin	28.6	dB(A)	Silence Zone	50	40

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TEST REPORT

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Report Code: N-100522-02

Issue Date: 14/05/2022

Issued To:

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Sample description : Ambient Noise
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Analysis Duration : 10/05/2022 To 14/05/2022

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)	49.6	dB(A)	Industrial Area	75	70
2.	Equivalent Noise Level (10.0 Pm To 6.0 Am)	35.1	dB(A)	Commercial Area	65	55
3.	Lmax	59.2	dB(A)	Residential Area	55	45
4.	Lmin	30.0	dB(A)	Silence Zone	50	40

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