

Report Number: ITS-ENV-2024-06-F
Date : 03 April, 2024

WORKPLACE ENVIRONMENTAL ASSESSMENT REPORT

Stack Air Emission Assessment (Boilers)

Facility Name : IRIS Fabrics Limited.
Facility Address : Zirani Bazar, Kashimpur, Gazipur
GPS Coordinate : Latitude: 23.999265 | Longitude: 90.251186
Facility Tel : +8801817049518
Facility Contact : Mohammad Ahsan Alim – GM (Admin, HR & compliance)
Facility Email : admin@irisgroupbd.com
Description of Equipment : KANE975-Industrial Flue Gas Analyzer, Model No: UEi K975, ECOTECH, Model: ESS100
Data Collection Date & Time : 31 March 2024, 9:15 AM-2:25 PM (Running Condition)
Conducted By : Mohammad Waliullah & Kamrun Nahar

Description of Boilers:

Key Information	Boiler Description		
Machine	Boiler-1	Boiler-2	Boiler-3(EGB)
Location	Boiler Room	Boiler Room	Boiler room
Registration Number	Ba.Bo.4935	Ba.Bo. 10119	Ba Bo 12627
Capacity	10.88 Ton	14 Ton	1.2 ton
Brand	Mechmar	Bosch	Thermax
Fuel Type	Gas	Gas	Exhaust Fumes from Generator

Assessment Result:

Machine Type	SPM (mg/Nm ³)	NO _x (mg/Nm ³)	SO ₂ (mg/Nm ³)	CO (mg/Nm ³)	CO ₂ (%)	O ₂ (%)
Boiler- 1	82	52	0	72.5	7.8	6.92
Boiler- 2	78	17	0	58.2	7.0	8.16
Boiler-3(EGB)	62	92	0	52.2	7.1	8.05

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Standard Requirement :

Standard	Fuel	Air Quality Parameters					
		O ₂ %	CO mg/Nm ³	CO ₂ mg/Nm ³	NO _x mg/Nm ³	SO ₂ mg/Nm ³	SPM mg/Nm ³
ECR- 1997	Gas	NYS	NYS	NYS	150	NYS	100
	Diesel	NYS	NYS	NYS	300	NYS	300
Air Pollution (Control) Rules- 2022	Gas	NYS	NYS	NYS	300	250	NYS
	Diesel	NYS	NYS	NYS	400	250	200
IFC/ WB standard	Gas	3	NYS	NYS	320	NYS	NYS
	Diesel	3	NYS	NYS	460	2000	50-150

*NYS= Not Yet Set; ECR= Environmental Conservation Rules

Abbreviation : SPM (Suspended Particulate Matter), PM10 (Respirable Dust Content), PM2.5 (Fine Particulate Matter), SO₂ (Sulphur-Di-Oxide), NO_x (Oxides of Nitrogen), CO (Carbon Monoxide), CO₂ (Carbon di-oxide), WB (World Bank).

Comment: Assessment result of stack air emission of Boilers shows that the concentrations of air quality parameters has been found within the acceptable limit.

Report prepared by



**Mohammad Waliullah
Auditor
Supplier Management
Business Assurance
ITS Labtest Bangladesh Ltd.**

Report authorized by



**Shoriful Islam
Head of Business Assurance
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ITS Labtest Bangladesh Ltd.**