

Report Number : BA-ENV-2023-08
Date : 09 March, 2023

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 : 09 March 2023, 10:40 AM-02:55 PM (Running Condition)
Conducted By : Md. Monoarul Islam, & Hasan Tawhid

Description of Boilers:

Machine	Key Information				
	Location	Capacity	Brand Name	Registration Number	Fuel Type
Boiler-1	Boiler Room	14 Ton	Bosch	Ba. Bo. 4935	Gas
Boiler-2	Boiler Room	10.8 Ton	MECHMAR	Ba. Bo. 10119	Gas

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	55.2	45.2	0	81.3	3.5	2.8
Boiler- 2	50.1	39.5	0	72.2	3.3	2.7

* SPM is tested from another ISO-17020:2012 accredited inspection body

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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



Md. Monoarul Islam
Auditor
Supplier Management
Business Assurance
ITS Labtest Bangladesh Ltd.

Report authorized by



Shoriful Islam
Head of Business Assurance
Supplier Management
Business Assurance
ITS Labtest Bangladesh Ltd.