

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

WORKPLACE ENVIRONMENTAL ASSESSMENT REPORT

Stack Air Emission Assessment (Generator)

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 Generators:

Machine	Key Information			
	Location	Capacity	Brand Name	Fuel Type
Generator-1	Utility Area	1287 KVA	Caterpillar	Gas
Generator-2	Utility Area	1287 KVA	Caterpillar	Gas
Generator-3	Utility Area	176 KVA	Maxenergy	Diesel
Generator-4	Utility Area	200 KVA	Kohler	Diesel
Generator-5	Utility Area	275 KVA	Pramac	Diesel
Generator-6	Utility Area	12 KVA	Kohler	Diesel

Assessment Result:

Machine	SPM (mg/Nm ³)	NO _x (mg/Nm ³)	SO ₂ (mg/Nm ³)	CO (mg/Nm ³)	CO ₂ (%)	O ₂ (%)
Generator-1	92.8	18.8	2.6	123.7	5.7	12.3
Generator-2	92.5	20.7	0.0	128.3	5.3	12.5
Generator-3	68.8	41.4	13.1	108.8	4.3	11.7
Generator-4	70	47.0	15.7	111.1	4.7	12.8
Generator-5	71.8	48.9	18.3	112.3	4.9	12.5
Generator-6	62.6	32.0	7.9	102.0	3.8	11.2

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

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Standard Requirement :

Standard	Installation year	SPM (mg/Nm ³)	NO _x (mg/Nm ³)	SO ₂ (mg/Nm ³)	CO (mg/Nm ³)	CO ₂ (%)	O ₂ (%)
Air Emission Control rules-2022	Before 2020	Oil-80 Coal-100	Oil and Natural Gas-200	Oil and coal-400	NF	NF	NF
	After 2020	Oil and coal-50	Oil and Natural Gas - 400	Oil and coal-200	NF	NF	NF
IFC/World Bank Standard		50 or Up to 100 mg/m ³	200 (Spark Ignition) 400 (Duel Fuel) 1,600 (Compressor Ignition)	NF	NF	NF	15% (Gas, Liquid)

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 generators shows that the concentrations of air quality parameters has been found within the acceptable limit.

Report prepared by



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Auditor
Supplier Management
Business Assurance
ITS Labtest Bangladesh Ltd.

Report authorized by



Shoriful Islam
Head of Business Assurance
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