

ITS Labtest Bangladesh Ltd.
Intertek House Bangladesh Ltd.
Phoenix Tower (2nd-3rd Floor), 407,
Tejgaon I/A, Dhaka-1208, Bangladesh.
www.intertek.com

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

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 : 31 March 2024, 9:15 AM-2:25 PM (Running Condition)

Conducted By : Mohammad Waliullah & Kamrun Nahar

Description of Generators:

Key Information	Generator Description				
Machine	Gas Generator-1	Gas Generator-2	Diesel Generator-1	Diesel Generator-2	
Location	Utility Area	Utility Area	Utility Area	Utility Area	
Capacity	1287 KVA	1875KVA	770 KVA	770 KVA	
Brand	Caterpillar	Caterpillar	Caterpillar	Caterpillar	
Fuel Type	Gas	Gas	Diesel	Diesel	

Key Information	Generator Description				
Machine	Diesel Generator-3	Diesel Generator-4	Diesel Generaor-5	Diesel Generator-6	
Location	Utility Area	Utility Area	Utility area	Utility Area	
Capacity	275 KVA	200 KVA	220 KVA	12 KVA	
Brand	Volvo	Kohler	Max energy	Kohler	
Fuel Type	Diesel	Diesel	Diesel	Diesel	



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Assessment Result:

Machine	SPM	NO _x	SO ₂	CO	CO ₂	O ₂
	(mg/Nm³)	(mg/Nm³)	(mg/Nm³)	(mg/Nm³)	(%)	(%)
Gas Generator-1	58	95	0	220	5.9	7
Gas Generator-2	62	97	0	225	7.2	8
Diesel Generator-1	172	72	0	327	12.2	11
Diesel Generator-2	121	68	0	345	11.5	13
Diesel Generator-3	127	82	0	312	15.2	12
Diesel Generator-4	162	78	0	230	14.2	14
Diesel Generator-5	171	62	0	215	11.4	13
Diesel Generator-6	168	57	0	272	13.2	11

Standard Requirement

:

Standard	Installation year	SPM (mg/Nm³)	NOx (mg/Nm³)	SO ₂ (mg/Nm ³)	CO (mg/Nm³)	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/m3	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.



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Report prepared by

De

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Report authorized by



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