

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

WORKPLACE ENVIRONMENTAL ASSESSMENT REPORT

Ambient Air Quality Assessment

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 : Air Quality Monitor- YesAir, Air Quality Monitor- DM106, APM 460
Data Collection Date & Time : 31 March 2024, 9:15 AM-2:25 PM (Running Condition)
Conducted By : Mohammad Waliullah & Kamrun Nahar

Assessment Result :

Location	SPM ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m ³)	VOC (ppm)	Temp. (°C)	RH (%)	CO ₂ (ppm)
South Side	103	58	39	27.6	21.9	0.55	0.02	28.1	57	309
East Side	104	61	33	33.8	18.1	0.61	0.01	28.5	52	311
North Side	85	48	32	27.1	21.4	0.59	0.03	28.3	59	301
West Side	101	60	37	30.4	24.7	0.51	0.01	27.9	52	317

Standard Requirement :

Regulatory Body	PM _{2.5}	PM ₁₀	SO ₂	NO ₂	CO	CO ₂	Temp.	RH	VOC
	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	mg/m ³	ppm	°C	%	ppm
Environmental Conservation Rules-1997 (Amended, 2005)	65 (24h)	150 (24h)	365 (24h)	100 (Annual)	10 (8h)	NYS	NYS	NYS	NYS
Air Pollution (Control) Rules-2022	65 (24h)	150 (24h)	80 (24h)	80 (24h)	5 (8h)	NYS	NYS	NYS	NYS
IFC/ WB standard	75 (24h)	150 (24h)	125 (24h)	40 (Annual)	NYS	NYS	NYS	NYS	NYS
OSHA Standard for VOC									0.75

* h= Average duration in hour; NYS= Not Yet Set

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Abbreviation : PM10 (Respirable Dust Content), PM2.5 (Fine Particulate Matter), SO₂ (Sulphur-Di-Oxide), NO₂ (Nitrogen Di-Oxide), CO (Carbon Monoxide), CO₂ (Carbon Di-Oxide), VOC (Volatile Organic Compound), RH (Relative Humidity), Temp. (Temperature), WB (World Bank), IFC (International Finance Corporation).

Comment: Assessment result of ambient air quality shows that the concentrations of air quality parameters has been found within the acceptable limit set by Environmental Conservation Rule-1997 (Amended, 2005), Air Pollution (Control) Rules-2022, and Air Emissions & Ambient Air Quality guidelines of IFC/ WB.

Report prepared by



Kamrun Nahar
Coordinator
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.