

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

WORKPLACE ENVIRONMENTAL ASSESSMENT REPORT

Indoor 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
Data Collection Date & Time : 31 March 2024, 9:15 AM-2:25 PM (Running Condition)
Conducted By : Mohammad Waliullah & Kamrun Nahar

Assessment Result :

Building	Location	Section	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)	VOC (ppm)	Temp. (°C)	RH (%)	CO ₂ (ppm)
Building-1	Ground Floor	Embroidery Section	92	41	24.4	17.9	0.64	0.03	28.4	61	311
		Knitting Section	91	39	22.6	23.1	0.66	0.01	29.1	62	305
	1 st Floor	Finishing Section	65	36	23.8	27.4	0.79	0.17	28.4	61	308
		Spot Removing Room	84	37	26.6	21.3	0.77	0.47	29.3	61	412
	2 nd floor	Sewing Section	82	44	24.3	25.2	0.59	0.05	29.2	62	311
	3 rd Floor	Sewing Section	84	42	29.2	24.9	0.57	0.08	26.9	61	317
	4 th Floor	Finishing Section	76	37	27.6	22.7	0.73	0.16	26.4	59	320
		Spot Removing Room-1	79	33	36.7	25.8	0.75	0.37	26.9	62	411
		Spot Removing Room-2	71	36	38.9	23.1	0.79	0.45	27.2	63	417
	5 th floor	Sewing Section	87	41	32.7	21.6	0.71	0.07	27.3	64	311
	6 th Floor	Cutting Section	84	47	31.4	19.3	0.60	0.05	27.7	63	316
	7 th Floor	Sewing Section	80	39	29.6	22.9	0.57	0.08	27.3	63	307
		Finishing Section	72	37	35.9	26.1	0.58	0.11	28.1	64	409
		Spot Removing Room	74	35	40.1	22.9	0.74	0.37	28.3	63	406

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Building	Location	Section	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)	VOC (ppm)	Temp. (°C)	RH (%)	CO ₂ (ppm)
Building-2	Ground Floor	Dyeing section	79	40	26.4	31.4	0.63	0.23	30.4	62	410
		Finishing Section	73	35	23.8	28.9	0.71	0.24	31.1	63	408
		Washing Section	76	38	32.1	31.8	0.85	0.21	30.1	62	410
		Chemical sub-store	74	31	31.5	27.1	0.74	0.39	30.3	60	315
	1 st floor	Printing section	68	39	32.6	25.7	0.59	0.35	29.2	61	312
		Color kitchen room	71	41	32.3	27.3	0.77	0.31	28.5	61	318
Utility Section	Ground Floor	Generator room	85	45	46.8	38.6	0.71	0.12	33.7	62	426
		Boiler Room-1	83	43	40.8	36.4	0.75	0.16	32.8	59	419
		Boiler Room-2	79	49	44.7	36.1	0.71	0.10	32.6	63	414
		Compressor room	76	51	34.2	34.6	0.87	0.14	31.7	61	413
		ETP	72	47	27.9	24.9	0.71	0.12	30.9	61	320
		WTP	77	36	41.4	25.8	0.62	0.07	33.1	57	322

Standard Requirement :

Regulatory Body	PM _{2.5}	PM ₁₀	SO ₂	NO ₂	CO	CO ₂	Temp.	RH	VOC
	µg/m ³	µg/m ³	µg/m ³	µg/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

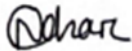
Abbreviation : PM10 (Respirable Dust Content), PM2.5 (Fine Particulate Matter), SO₂ (Sulphur-Di-Oxide), NO₂ (Nitrogen Di-Oxide), CO (Carbon Monoxide), CO₂ (Carbon Di-Oxide), VOC (Volatile Organic Compound), RH (Relative Humidity), Temp. (Temperature), WB (World Bank), IFC (International Finance Corporation).

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Comment: The Assessment result of indoor air quality of different area in the facility shows that the concentrations of air quality parameters has been found within the acceptable limits.

Report prepared by



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Report authorized by



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