

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

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

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	76	37	26.2	18.8	0.66	0.04	27.4	50	345
		Knitting Section	72	36	28.8	22.6	0.68	0.02	27.3	52	322
	1 st Floor	Finishing Section	68	33	34.1	28.2	0.81	0.13	26.9	50	336
		Spot Removing Room	78	39	39.3	20.7	0.72	0.41	27.5	52	338
	2 nd floor	Sewing Section	83	43	31.4	24.5	0.63	0.08	27.8	51	340
	3 rd Floor	Sewing section	85	45	28.8	26.3	0.61	0.07	27.3	56	342
	4 th Floor	Finishing section	70	28	26.2	22.6	0.71	0.11	26.7	57	331
		Spot removing Room-1	71	30	36.7	26.3	0.74	0.39	27.3	52	341
		Spot removing Room-2	73	31	41.9	24.5	0.77	0.40	27.8	54	334
	5 th floor	Sewing section	85	43	31.4	20.7	0.66	0.09	27.7	55	345
	6 th Floor	Cutting section	86	45	28.8	18.8	0.58	0.08	27.2	53	342
	7 th Floor	Sewing Section	82	41	26.2	22.6	0.52	0.06	27.4	56	338
		Finishing Section	68	35	36.7	24.5	0.60	0.07	26.8	51	326
		Spot removing room	72	33	41.9	20.7	0.76	0.38	27.7	55	328

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Building-2	Ground Floor	Dyeing section	79	38	36.7	30.1	0.66	0.25	27.9	58	325
		Finishing Section	70	31	31.4	28.2	0.74	0.22	27.8	57	337
		Washing Section	68	33	34.1	32.0	0.80	0.23	27.9	59	325
		Chemical sub-store	71	32	39.3	26.3	0.71	0.44	27.3	53	345
	1 st floor	Printing section	69	30	31.4	24.5	0.55	0.31	26.9	52	338
		Color kitchen room	75	32	34.1	28.2	0.70	0.29	26.7	53	332
Utility Section	Ground Floor	Generator room	82	41	44.5	37.6	0.73	0.14	28.2	59	348
		Boiler room	81	40	41.9	35.8	0.72	0.15	28.5	62	345
		Compressor room	79	37	36.7	33.9	0.81	0.13	27.8	57	342
		ETP	70	31	34.1	24.5	0.78	0.13	27.3	58	329
		WTP	74	32	47.2	26.3	0.55	0.09	26.9	56	334

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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