



EIA-Testing-1082-2016

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

Ambient Air Quality Test Result

Facility Name : Labonno Screen Print Limited (Unit-2)
Facility Address : Norshinghopur, Zirabo, Ashulia, Dhaka, Bangladesh.
GPS Coordinate (DD) : 23.943409312742677, Longitude 90.30397474765778
Facility Tel : +88028054445, 01819272536
Facility Contact : Md. Humayun Kabir; ECR
Facility Email : alin@sldhaka.com; biplob@sldhaka.com

Description of Equipment : Air Quality Monitor (Last Calibrated on 14 March 2016 by Wuhan Cubic Optoelectronics Co. Ltd.)

Data Collection Date & Time : 07 February 2017, 9.00 AM- 04.30 PM (Running Condition)
Conducted By : Wadud Ahmed Chowdhury and Shibshankar Dey
Reporting Date : 23 February 2017

Test Result :

Description	Ambient Air Pollution Concentration Limit ($\mu\text{g}/\text{m}^3$)									
	SPM ($\mu\text{g}/\text{m}^3$)		SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ($\mu\text{g}/\text{m}^3$)	CO ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	CO ₂ (%)	O ₂ (%)	Temperature (°C)	Humidity (%)
	PM ₁₀	PM _{2.5}								
Concentration present in North Side near boundary area	69	98	00	00	00	00	00	20.80	31.8	43.5
Concentration present in South Side near boundary area	81	108	00	00	00	00	00	20.75	31.8	43.5
Concentration present in East Side near boundary area	72	110	00	00	00	00	00	20.87	31.8	43.5
Concentration present in West Side near boundary area	85	117	00	00	00	00	00	20.84	31.8	43.5

Standard Requirement :

Description	Ambient Air Pollution Concentration Limit ($\mu\text{g}/\text{m}^3$)									
	SPM ($\mu\text{g}/\text{m}^3$)		SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ($\mu\text{g}/\text{m}^3$)	CO ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	CO ₂ (%)	O ₂ (%)	Temperature (°C)	Humidity (%)
	SPM ₁₀	SPM _{2.5}								
Department of Environment (DoE)/Environment Conservation Rules, 1997 (Rule-12, Schedule-2)	500	500	120	100	5000	100	NF	NF	NF	NF
IFC/World Bank Standard	25	50	NF	NF	NF	150	NF	0-15%	NF	NF
World Health Organization (WHO)	25	50	NF	NF	NF	200	NF	NF	NF	NF
EPA Standard	35	150	365	100	10000	100	NF	0-30%	NF	NF

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), DoE (Department of Environment), WB (World Bank), NF (Not Found).

Comment : Test result for ambient air quality of the surrounding shows concentrations are under acceptable limit.

Wadud Ahmed Chowdhury
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 Business Assurance
 ITS Labtest Bangladesh Ltd.

Tamal Kumar Saha
 Deputy Manager (System Certification,
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 Business Assurance
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ITS Labtest Bangladesh Ltd.
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Indoor Air Quality Test Result

Facility Name : Labonno Screen Print Limited (Unit-2)
Facility Address : Norshinghopur, Zirabo, Ashulia, Dhaka, Bangladesh.
GPS Coordinate (DD) : 23.943409312742677, Longitude 90.30397474765778
Facility Tel : +88028054445, 01819272536
Facility Contact : Md. Humayun Kabir; ECR
Facility Email : alin@sldhaka.com; biplob@sldhaka.com

Description of Equipment : Air Quality Monitor (Last Calibrated on 14 March 2016 by Wuhan Cubic Optoelectronics Co. Ltd.)

Data Collection Date & Time : 07 February 2017, 10.30 AM- 04.00 PM (Running Condition)

Conducted By : Wadud Ahmed Chowdhury and Shibshankar Dey

Reporting Date : 23 February 2017

Test Result :

Description	Indoor Air Pollution Concentration Limit ($\mu\text{g}/\text{m}^3$)									
	SPM ($\mu\text{g}/\text{m}^3$)		SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ($\mu\text{g}/\text{m}^3$)	CO ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	CO ₂ (%)	O ₂ (%)	Temperature (°C)	Humidity (%)
	PM ₁₀	PM _{2.5}								
Laboratory	139	99	00	00	00	00	00	21.28	26.6	57.0
Office Room	149	100	00	00	00	00	00	20.80	26.7	55.2
Exposing Room	167	110	00	00	00	00	00	20.90	27.3	51.4
Color Mixing Room	142	100	00	00	3700	00	00	20.45	27.3	52.5
Printing Section (Ground floor)	167	108	00	00	00	00	00	20.87	27.6	55.9
Accessories Room	146	99	00	00	00	00	00	20.88	27.7	53.3
Chemical Store	141	100	00	00	1230	00	00	20.48	27.7	56.4
Conference Room	143	98	00	00	00	00	00	20.90	28.5	50.4
Doctor Room	129	90	00	00	00	00	00	20.80	28.7	50.0
Child care Room	256	160	00	00	00	00	00	20.80	29.5	52.2
ETP Section	257	140	00	00	00		00	20.73	29.8	46.8
Printing (1 st Floor)	285	145	00	00	00		00	20.91	29	48
Printing (2 nd Floor)	242	136	00	00	00		00	20.83	29.2	46.2
Printing (3 rd Floor)	257	140	00	00	00	203	00	20.87	29.5	53.9
Printing (4 th Floor)	258	141	00	00	00	203	00	20.85	29.7	48.5
Printing (5 th Floor)	242	136	00	00	00	203	00	20.81	29.9	48
Dining Room	236	133	00	00	00	305	00	20.85	30.6	43.5

Standard Requirement :

Description	Indoor Air Pollution Concentration Limit ($\mu\text{g}/\text{m}^3$)									
	SPM ($\mu\text{g}/\text{m}^3$)		SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ($\mu\text{g}/\text{m}^3$)	CO ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	CO ₂ (%)	O ₂ (%)	Temperature (°C)	Humidity (%)
	PM ₁₀	PM _{2.5}								
Department of Environment (DoE)/Environment Conservation Rules, 1997 (Rule-12, Schedule-2)	500	500	120	100	5000	100	NF	NF	NF	NF
IFC/World Bank Standard	25	50	NF	NF	NF	150	NF	0-15%	NF	NF
World Health Organization (WHO)	25	50	NF	NF	NF	200	NF	NF	NF	NF
EPA Standard	35	150	365	100	10000	100	NF	0-30%	NF	NF

Abbreviation : SPM (Suspended Particulate Matter), PM₁₀ (Respirable Dust Content), PM_{2.5} (Fine Particulate Matter), SO₂ (Sulphur-Di-Oxide), NO_x (Oxides of Nitrogen), CO (Carbon Monoxide), DoE (Department of Environment), WB (World Bank), NF (Not Found).

Comment : Test result for indoor air quality of the factory shows concentrations are under acceptable limit except NO₂ in Dining room. Employees are requested to wear mask and gloves to avoid occupational hazard in that area.

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EIA-Testing-1083-2016

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Noise Level Test Result

Facility Name : Labonno Screen Print Limited (Unit-2)
Facility Address : Norshinghopur, Zirabo, Ashulia, Dhaka, Bangladesh.
GPS Coordinate : 23.943409312742677, Longitude 90.30397474765778
Facility Tel : +88028054445, 01819272536
Facility Contact : Md. Humayun Kabir; ECR
Facility Email : alin@sldhaka.com; biplob@sldhaka.com

Description of Equipment : Tenmars Auto Ranging Sound Level Meter, TM 102 (Last Calibration on 07 June 2016 by Electrometer Corporation, S/N: 060302965)

Data Collection Date & Time : 07 February 2017, 9.00 AM- 04.30 PM (Running Condition)

Conducted By : Wadud Ahmed Chowdhury and Shibshankar Dey

Reporting Date : 23 February 2017

Test Result :

Sl. No.	Sample Location	Concentration Present (LA _{eq}) dBA
1.	Laboratory	53.5
2.	Office Room	58.2
3.	Exposing Room	75.5
4.	Color Mixing Room	69
5.	Printing Section (Ground floor)	66.5
6.	Accessories Room	75.6
7.	Chemical Store	64
8.	Conference Room	69.5
9.	Doctor Room	56
10.	Child care Room	57.5
11.	ETP Section	84
12.	Generator Room	106
13.	Printing (1 st Floor)	73
14.	Printing (2 nd Floor)	75.4
15.	Printing (3 rd Floor)	77
16.	Printing (4 th Floor)	72.8
17.	Printing (5 th Floor)	74
18.	Dining Room	64.6

Standard Requirement : According to the Environment Conservation Rules 1997 in industrial area noise level should be 75 dBA at day time and 70 dBA at night time. World Health Organization (WHO) standard is 85 dBA for indoor workplace area.

Comment : Test result for noise level of the different areas of the factory shows concentrations are under acceptable limit except generator room.

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Stack Air Emission Test Result

Facility Name : Labonno Screen Print Limited (Unit-2) Ltd.
Facility Address : Norshinghopur, Zirabo, Ashulia, Dhaka, Bangladesh.
GPS Coordinate (DD) : 23.943409312742677, Longitude 90.30397474765778
Facility Tel : +88028054445, 01819272536
Facility Contact : Md. Humayun Kabir; ECR
Facility Email : alin@sldhaka.com; biplob@sldhaka.com

Description of Equipment : Gas Board Gas Analyzer (Last Calibrated on 27 March 2016 by Wuhan Cubic Optoelectronics Co. Ltd.)

Data Collection Date & Time : 07 February 2017, 9.00 AM- 04.30 PM (Running Condition)

Conducted By : Wadud Ahmed Chowdhury and Shibshankar Dey

Reporting Date : 23 February 2017

Test Result :

Description	Stack Air Pollution Concentration Limit ($\mu\text{g}/\text{m}^3$)									
	SPM (mg/Nm^3)		SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ($\mu\text{g}/\text{m}^3$)	CO ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	CO ₂ (%)	O ₂ (%)	Ambient Temperature (°C)	Flue Gas Temperature (°C)
	PM 10	PM 2.5								
Generator-1 (400 KW, Olympian/Perkins, Fuel Type: Diesel, Model: GEP 550-1)	245	136	00	66500	30500	00	5.61	11.43	30.6	199.0
Generator-2 (80 KW, Meccalte Spa/Perkins, Fuel Type: Diesel, Model: ECP 34- 2S/4,)	236	133	00	34200	12700	00	2.27	16.85	29.9	93.0

Standard Requirement :

Description	Stack Air Pollution Concentration Limit ($\mu\text{g}/\text{m}^3$)								Ambient Temperature ($^{\circ}\text{C}$)	Flue Gas Temperature ($^{\circ}\text{C}$)
	SPM (mg/Nm ³)		SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ($\mu\text{g}/\text{m}^3$)	CO ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	CO ₂ (%)	O ₂ (%)		
	PM 10	PM 2.5								
Department of Environment (DoE)/Environment Conservation Rules, 1997	350	350	NF	NF	NF	NF	NF	NF	NF	NF

Abbreviation : SPM (Suspended Particulate Matter), PM₁₀ (Respirable Dust Content), PM_{2.5} (Fine Particulate Matter), SO₂ (Sulphur-Di-Oxide), NO_x (Oxides of Nitrogen), CO (Carbon Monoxide), O₂ (Oxygen), CO₂ (Carbon Di Oxide), DoE (Department of Environment), WB (World Bank), NF (Not Found).

Comment : Test result for stack air emission of the factory shows concentrations are under acceptable limit.

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