



EIA-Testing-1082-2016

ITS Labtest Bangladesh Ltd.  
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### Ambient Air Quality Test Result

**Facility Name** : Labonno Screen Print Limited  
**Facility Address** : Norshinghopur, Zirabo, Ashulia, Dhaka, Bangladesh.  
**GPS Coordinate (DD)** : Latitude 23.9373622, Longitude 90.30194970000002  
**Facility Tel** : +88028054445, 01819272536  
**Facility Contact** : Biplob Bishwas; ECR  
**Facility Email** : [alin@sldhaka.com](mailto:alin@sldhaka.com); [biplob@sldhaka.com](mailto: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** : 06 February 2017, 9.00 AM- 04.30 PM (Running Condition)  
**Conducted By** : Tamal Kumar Saha, 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 <sub>2</sub><br>( $\mu\text{g}/\text{m}^3$ ) | NO<br>( $\mu\text{g}/\text{m}^3$ ) | CO<br>( $\mu\text{g}/\text{m}^3$ ) | NO <sub>2</sub><br>( $\mu\text{g}/\text{m}^3$ ) | CO <sub>2</sub><br>(%) | O <sub>2</sub><br>(%) | Temperature<br>(°C) | Humidity<br>(%) |
|  | PM <sub>10</sub>   | PM <sub>2.5</sub> |   |                                    |                                    |   |                        |                       |                     |                 |
| Concentration present in North Side near boundary area | 98   | 67                | 00  | 00                                 | 00                                 | 00  | 00                     | 20.83                 | 32.3                | 40.5            |
| Concentration present in South Side near boundary area | 84   | 61                | 00  | 00                                 | 00                                 | 00  | 00                     | 20.87                 | 32.3                | 40.5            |
| Concentration present in East Side near boundary area  | 81   | 58                | 00  | 00                                 | 00                                 | 00  | 00                     | 20.90                 | 32.3                | 40.5            |
| Concentration present in West Side near boundary area  | 93   | 69                | 00  | 00                                 | 00                                 | 00  | 00                     | 20.84                 | 32.3                | 40.5            |

**Standard Requirement :**

| Description  | Ambient Air Pollution Concentration Limit ( $\mu\text{g}/\text{m}^3$ ) |                    |  |                                 |                                 |  |                     |                    |                  |              |
|--|--|--------------------|--|---------------------------------|---------------------------------|--|---------------------|--------------------|------------------|--------------|
|  | SPM ( $\mu\text{g}/\text{m}^3$ )                                       |                    | SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) | NO ( $\mu\text{g}/\text{m}^3$ ) | CO ( $\mu\text{g}/\text{m}^3$ ) | NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) | CO <sub>2</sub> (%) | O <sub>2</sub> (%) | Temperature (°C) | Humidity (%) |
|  | SPM <sub>10</sub>  | SPM <sub>2.5</sub> |  |                                 |                                 |  |                     |                    |                  |              |
| 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), SO<sub>2</sub> (Sulphur-Di-Oxide), NO<sub>x</sub> (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.

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### Indoor Air Quality Test Result

**Facility Name** : Labonno Screen Print Limited  
**Facility Address** : Norshinghopur, Zirabo, Ashulia, Dhaka, Bangladesh.  
**GPS Coordinate (DD)** : Latitude 23.9373622, Longitude 90.30194970000002  
**Facility Tel** : +88028054445, 01819272536  
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**Facility Email** : [alin@sldhaka.com](mailto:alin@sldhaka.com); [biplob@sldhaka.com](mailto: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** : 06 February 2017, 10.30 AM- 04.30 PM (Running Condition)  
**Conducted By** : Tamal Kumar Saha, 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 <sub>2</sub><br>( $\mu\text{g}/\text{m}^3$ ) | NO<br>( $\mu\text{g}/\text{m}^3$ ) | CO<br>( $\mu\text{g}/\text{m}^3$ ) | NO <sub>2</sub><br>( $\mu\text{g}/\text{m}^3$ ) | CO <sub>2</sub><br>(%) | O <sub>2</sub><br>(%) | Temperature<br>(°C) | Humidity<br>(%) |
|  | PM <sub>10</sub>  | PM <sub>2.5</sub> |   |                                    |                                    |   |                        |                       |                     |                 |
| Dining Room                              | 70  | 53                | 00  | 00                                 | 00                                 | 00  | 00                     | 20.81                 | 30.1                | 45.1            |
| Child Care                               | 82  | 59                | 00  | 00                                 | 00                                 | 00  | 00                     | 20.86                 | 30.1                | 45.0            |
| Doctor Room                              | 71  | 52                | 00  | 00                                 | 00                                 | 00  | 00                     | 20.83                 | 30.1                | 49.0            |
| Proposed Printing Floor                  | 112   | 71                | 00  | 00                                 | 00                                 | 00  | 00                     | 20.74                 | 29.8                | 46.8            |
| Printing Section (Ground Floor)          | 91  | 63                | 00  | 00                                 | 00                                 | 00  | 00                     | 20.87                 | 30.5                | 45.2            |
| Printing Section (1 <sup>st</sup> Floor) | 75  | 53                | 00  | 00                                 | 00                                 | 00  | 00                     | 20.9                  | 31.6                | 46.6            |
| Finishing Section                        | 84  | 58                | 00  | 00                                 | 00                                 | 00  | 00                     | 20.9                  | 31.7                | 42.8            |
| Chemical Store                           | 86  | 60                | 00  | 00                                 | 00                                 | 00  | 00                     | 20.82                 | 31.1                | 43.3            |
| Store Room                               | 173   | 100               | 00  | 00                                 | 00                                 | 00  | 00                     | 20.84                 | 30.9                | 44.3            |
| Color Mixing Room                        | 162   | 95                | 00  | 00                                 | 00                                 | 00  | 00                     | 20.87                 | 30.6                | 45.5            |
| Expose Room                              | 103   | 65                | 00  | 00                                 | 00                                 | 00  | 00                     | 20.89                 | 30.4                | 46.8            |
| Sample Section                           | 99  | 63                | 00  | 00                                 | 00                                 | 00  | 00                     | 20.88                 | 30.6                | 46.2            |

**Standard Requirement :**

| Description  | Indoor Air Pollution Concentration Limit ( $\mu\text{g}/\text{m}^3$ ) |                   |  |                                 |                                 |  |                     |                    |                  |              |
|--|---|-------------------|--|---------------------------------|---------------------------------|--|---------------------|--------------------|------------------|--------------|
|  | SPM ( $\mu\text{g}/\text{m}^3$ )                                      |                   | SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) | NO ( $\mu\text{g}/\text{m}^3$ ) | CO ( $\mu\text{g}/\text{m}^3$ ) | NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) | CO <sub>2</sub> (%) | O <sub>2</sub> (%) | Temperature (°C) | Humidity (%) |
|  | PM <sub>10</sub>  | PM <sub>2.5</sub> |  |                                 |                                 |  |                     |                    |                  |              |
| 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), PM<sub>10</sub> (Respirable Dust Content), PM<sub>2.5</sub> (Fine Particulate Matter), SO<sub>2</sub> (Sulphur-Di-Oxide), NO<sub>x</sub> (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.

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EIA-Testing-1083-2016

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## Noise Level Test Result

**Facility Name** : Labonno Screen Print Limited  
**Facility Address** : Norshinghopur, Zirabo, Ashulia, Dhaka, Bangladesh.  
**GPS Coordinate (DD)** : Latitude 23.9373622, Longitude 90.30194970000002  
**Facility Tel** : +88028054445, 01819272536  
**Facility Contact** : Biplob Bishwas; ECR  
**Facility Email** : [alin@sldhaka.com](mailto:alin@sldhaka.com); [biplob@sldhaka.com](mailto: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** : 06 February 2017, 9.00 AM- 04.30 PM (Running Condition)  
**Conducted By** : Tamal Kumar Saha, Wadud Ahmed Chowdhury and Shibshankar Dey  
**Reporting Date** : 23 February 2017

**Test Result** :

| Sl. No. | Sample Location                          | Concentration Present (LA <sub>eq</sub> ) dBA |
|---------|--|---|
| 1.      | Sample Section                           | 59.5  |
| 2.      | Store Room                               | 58  |
| 3.      | Chemical Store                           | 54  |
| 4.      | Color Mixing Room                        | 58.2  |
| 5.      | Printing Section (Ground floor)          | 75.5  |
| 6.      | Printing Section (1 <sup>st</sup> floor) | 73  |
| 7.      | Finishing Section                        | 66.9  |
| 8.      | Generator Room                           | 97.5  |

**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.

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### Stack Air Emission Test Result

**Facility Name** : Labonno Screen Print Limited  
**Facility Address** : Norshinghopur, Zirabo, Ashulia, Dhaka, Bangladesh.  
**GPS Coordinate (DD)** : Latitude 23.9373622, Longitude 90.30194970000002  
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**Description of Equipment** : Gas Board Gas Analyzer (Last Calibrated on 27 March 2016 by Wuhan Cubic Optoelectronics Co. Ltd.)  
**Data Collection Date & Time** : 06 February 2017, 9.00 AM- 04.30 PM (Running Condition)  
**Conducted By** : Tamal Kumar Saha, Wadud Ahmed Chowdhury and Shibshankar Dey  
**Reporting Date** : 23 February 2017

**Test Result** :

| Description  | Stack Air Pollution Concentration Limit ( $\mu\text{g}/\text{m}^3$ ) |        |  |                                 |                                 |  |                     |                    | Ambient Temperature ( $^{\circ}\text{C}$ ) | Flue Gas Temperature ( $^{\circ}\text{C}$ ) |
|--|--|--------|--|---------------------------------|---------------------------------|--|---------------------|--------------------|--|---|
|  | SPM ( $\mu\text{g}/\text{m}^3$ )                                     |        | SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) | NO ( $\mu\text{g}/\text{m}^3$ ) | CO ( $\mu\text{g}/\text{m}^3$ ) | NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) | CO <sub>2</sub> (%) | O <sub>2</sub> (%) |  |   |
|  | PM 10  | PM 2.5 |  |                                 |                                 |  |                     |                    |  |   |
| Generator (200 KW, MAXENERGY, Fuel Type: Diesel, JTAD-200) | 72   | 54     | 3100   | 52300                           | 11500                           | 00   | 6.00                | 10.54              | 29.6                                       | 251   |

**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 <sup>3</sup> )  |        | SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) | NO ( $\mu\text{g}/\text{m}^3$ ) | CO ( $\mu\text{g}/\text{m}^3$ ) | NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) | CO <sub>2</sub> (%) | O <sub>2</sub> (%) |  |   |
|  | 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), PM<sub>10</sub> (Respirable Dust Content), PM<sub>2.5</sub> (Fine Particulate Matter), SO<sub>2</sub> (Sulphur-Di-Oxide), NO<sub>x</sub> (Oxides of Nitrogen), CO (Carbon Monoxide), O<sub>2</sub> (Oxygen), CO<sub>2</sub> (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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