

## Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory	: Aleya Sweater Ltd.
Address of the Factory	: House No- 85, Ashulia Depz Road , Block-D,Ward-3, Turag, Dhaka.
Present Status of the Factory	: Under Operation
Structural Assessment Conducted by	: BUET
Date of Structural Inspection	: 19 <sup>th</sup> November 2014

### **BASIC INFORMATION:**

The factory building is a single storied steel truss structure supported on RC columns which consists of two units (East and West unit). The following information was noted:

i.	Building Usage Type	: Garments and Sweater Factory.
ii.	Structural System	: Steel truss supported on RC column and Steel pipes.
iii.	Floor System	: Slab on ground
iv.	Floor Area	: Total 31000 ft <sup>2</sup> (East and West unit)
v.	No. of Stories	: Single
vi.	Construction Year	: 2006
vii.	Foundation Type	: Individual footing (4'-6"x 4'-6", depth of footing 6'-6" )
viii.	Design Drawings	: Available (Design Engineer: Md. Emdadul Haque, B.Sc Engg(Civil), mIEB-21366)
ix.	Soil Investigation Report	: Not available
x.	Construction Materials	: Steel truss and Reinforced Concrete , Brick chips
xi.	Generator	: Ground floor

### **RECOMMENDATIONS FOR CORRECTIVE ACTION:**

The recommendations of corrective action for both Structural and Fire & Electrical Safety comprises in Short Term, Mid Term and Long Term basis.

The recommendations for **Structural Safety** corrective action are:

Short Term (Immediate) : The factory owner has to prepare and submit the load plan for all floors.

Mid Term (6-weeks) : The factory owner has to conduct soil investigation and submit the report.

Long Term (6-months) : None

The recommendations for **Fire & Electrical Safety** corrective action are:

Name of the Factory : Aleya Sweater Ltd.

Fire & Electrical assessment conducted by : BUET

Date of Fire & Electrical Inspection : 29<sup>th</sup> November 2014

#### ***(A): Recommendations for Fire Safety corrective actions:***

Fire Safety Issues	
Immediate <i>(the factory should not continue to be occupied until these non-conformities have been rectified):</i>	N/A

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<p>Short Term <i>(Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity)</i></p>	<p>Remove obstructions from all escape routes, aisles and passageways.</p> <p>Maintain minimum effective width of corridors, passageways and aisles.</p> <p>Ensure that portable extinguishers are easily accessible, monitored and maintained at regular interval as per the Guidelines.</p> <p>Provide proper directional signs and exit signs in Bangla and English as per the Guidelines.</p>
<p>Mid Term <i>(The remedial works indicated must be carried out within a period of 6 weeks)</i></p>	<p>Prepare drawings to ensure adequate horizontal fire-rated separation inside one floor e.g. separation with storage, offices, and work areas as per the Guidelines.</p> <p>Prepare plans to ensure all exit access doors are side-swinging type and open to the direction of traffic flow.</p>
	<p>Also show methods to ensure proper separation of high risk areas (e.g., generator and boiler rooms) as per the Guidelines.</p> <p>Provide design to install proper detection and alarm system.</p> <p>Provide design to install proper detection and alarm system.</p>
<p>Long Term <i>(The remedial works indicated must be carried out within a period of 6 months)</i></p>	<p>Ensure adequate horizontal fire-rated separation inside one floor e.g. separation with storage, offices, and work areas.</p> <p>Ensure all exit access doors are side-swinging type and open to the direction of traffic flow.</p> <p>Ensure proper separation of high risk areas (e.g., generator, and boiler rooms) as per the Guidelines.</p> <p>Install proper detection and alarm system.</p>

### **(B): Recommendations for Electrical Safety corrective actions:**

<b>Electrical Safety Issues</b>	
<p>Immediate <i>(the factory should not continue to be occupied until these non-conformities have been rectified):</i></p>	N/A
<p>Short Term <i>(Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity)</i></p>	<p>Provide instructions for first aid and artificial respiration from exposure to electrical shock.</p> <p>Provide distribution board as per guideline and put identification mark on distribution panel.</p>
<p>Mid Term <i>(The remedial works indicated must be carried out within a period of 6 weeks)</i></p>	<p>Provide insulated conduit for electrical cables.</p> <p>Provide new Emergency Lighting system.</p>
<p>Long Term <i>(The remedial works indicated must be carried out within a period of 6 months)</i></p>	N/A