

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

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Name of the Factory : Apparel Exporters  
Address of the Factory : Bot tala, Jamgora, Ashulia, Savar, Dhaka  
Present Status of the Factory : Under Operation  
Structural Assessment Conducted by : BUET  
Date of Structural Inspection : 14<sup>th</sup> January 2014  
Fire & Electrical Assessment Conducted by : BUET  
Date of Fire & Electrical Inspection :

### **BASIC INFORMATION:**

The factory building is a single story shed supported by truss on RC column. The following information was noted:

- i. Building Usage Type : Garment (a small sweater) factory
- ii. Structural System : Truss shed on RC column
- iii. Floor System : MS truss supported corrugated MS sheets
- iv. Floor Area : Approximately 780sq. m with typical grid of 6.1m by 6.1m
- v. No. of Stories : One
- vi. Construction Year : 2008
- vii. Foundation Type : Not available
- viii. Design Drawings : Not available
- ix. Soil Investigation Report : Not available
- x. Construction Materials : Reinforced Concrete, MS angles, purlins, corrugated sheet, etc.
- xi. Generator : Outside the building

### **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) : None  
Mid Term (6-weeks) : None  
Long Term (6-months) : None

Name of the Factory : Apparel Exporters  
Fire & Electrical assessment conducted by : BUET  
Date of Fire & Electrical Inspection : 12 February 2014

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

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</p> <p><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 all temporary obstructions from all escape routes, aisles and passageways.</p> <p>Ensure minimum width of corridors, passageways and aisles.</p> <p>Ensure adequate numbers of fire drills.</p> <p>Ensure easy access to portable extinguishers and monitor and maintain the same at required interval as per guidelines.</p> <p>Provide proper directional sign and exit sign in Bangla and English as per guidelines</p>
<p>Mid Term</p> <p><i>(The remedial works indicated must be carried out within a period of 6 weeks)</i></p>	<p>Produce proper drawing and plans to create horizontal and vertical fire-rated separation for stairways of appropriate specifications, grills, storage and assembly areas, offices, work areas. Also design to ensure proper separation of high risk areas (e.g., generator, boiler, transformer and substation rooms) as per guidelines.</p> <p>Produce design drawings to demonstrate how stairways are to be made of adequate dimensions and appropriate specifications and to be converted into fire-rated enclosures equipped with fire-rated side swinging doors of required dimensions opening in the direction of travel at each floor.</p> <p>Provide design to install proper detection and alarm system.</p>
<p>Long Term</p> <p><i>(The remedial works indicated must be carried out within a period of 6 months)</i></p>	<p>Install horizontal and vertical fire-rated separation for stairways, grills, storage and assembly areas, offices, work areas.</p> <p>Ensure proper fire separation of high risk areas (e.g., generator, boiler, transformer and substation rooms) as per approved design</p> <p>Install fire rated enclosure and doors at exit to the stairs to prevent smoke and fire propagation as per approved design</p> <p>Install proper detection and alarm system.</p> <p>Provide fire rated enclosure, install self closing fire rated door as per guidelines.</p>

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

<p>Immediate</p> <p><i>(the factory should not continue to be occupied until these non-conformities have been rectified):</i></p>	<p>N/A</p>
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Short Term <i>(Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity)</i>	Ensure well-dressed cabling with lugs and remove loose cabling.  Ensure earthing of panel body & door with fitted condition.  Provide distribution board as per guideline and put identification mark on distribution panel.
Mid Term <i>(The remedial works indicated must be carried out within a period of 6 weeks)</i>	Provide separate service ducts for electrical cables.  Provide new Emergency Lighting system  Provide appropriate Lightening Protection System as per guidelines
Long Term <i>(The remedial works indicated must be carried out within a period of 6 months)</i>	. N/A