

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

Name of the Factory	: Ambition Garments Ltd.
Address of the Factory	: “Al-Amin Plaza”, 320, East Rampura, Dhaka-1219.
Present Status of the Factory	: Under Operation
Structural Assessment Conducted by	: BUET
Date of Structural Inspection	: 30 <sup>th</sup> October 2014

### **BASIC INFORMATION:**

The present garment factory is a commercial building with beam-column frame system. The building is constructed on pile foundation of different sizes as found in the drawings. The following information were noted:

i. Building Usage Type	: Primarily as Garments Factory, Press, Shopping Centre and Insurance Office
ii. Structural System	: RC beam column frame structure
iii. Floor System	: Edge supported RC solid floor slab system on RC beam.
iv. Floor Area	: Approx.587.37 m <sup>2</sup> /floor (as per structural drawings).
v. No. of Stories	: Six (against designed and approved as six storied residential building)
vi. Construction Year	: 1995-1996.
vii. Foundation Type	: Pile Foundation.
viii. Design Drawings	: RAJUK Approval Drawing available (23/B-3425/973706)
ix. Soil Investigation Report	: Available.
x. Construction Materials	: Reinforced concrete with brick chips (as reported) and steel rebars 60 Grade.
xi. Generator	: One Generator and one sub-station are located outside of 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)	: The factory owner has been instructed to prepare and submit a load plan for vetting.
Mid Term (6-weeks)	: None
Long Term (6-months)	: None

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

Name of the Factory	: Ambition Garments Ltd.
Fire & Electrical assessment conducted by	: BUET
Date of Fire & Electrical Inspection	: 29 <sup>th</sup> October 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>Remove all combustible materials from transformer/substation/boiler/ generator room.</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>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 and vertical fire-rated separation inside one floor and between different floors, e.g. separation with stairways, storage, assembly areas, offices, and work areas as per the Guidelines. Also design to ensure proper separation of high risk areas (e.g., boiler room) as per 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>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 and vertical fire-rated separation inside one floor and between different floors, e.g. separation with stairways, storage, assembly areas, offices, and work areas.</p> <p>Prepare plans to ensure all exit access doors are side- swinging type and open to the direction of traffic flow.</p> <p>Ensure proper fire separation of high risk areas (e.g., boiler) as per approved design.</p> <p>Install fire rated enclosure and doors of appropriate dimensions at exit to the stairs to prevent smoke and fire propagation as per approved design.</p> <p>Install proper detection and alarm system.</p>

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

<p align="center"><b>Electrical Safety Issues</b></p>	
<p>Immediate <i>(the factory should not continue to be occupied until these non-conformities have been rectified):</i></p>	<p align="center">N/A</p>
<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 rubber mat in front of the panel.</p> <p>Ensure well-dressed cabling with lugs and remove loose cabling.</p> <p>Ensure earthing of panel body &amp; door with fitted condition.</p> <p>Provide distribution board as per guideline and put identification mark on distribution panel.</p>

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Mid Term <i>(The remedial works indicated must be carried out within a period of 6 weeks)</i>	Provide new Emergency Lighting system.
Long Term <i>(The remedial works indicated must be carried out within a period of 6 months)</i>	N/A