

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory	: 3A Fashions Ltd.
Address of the Factory	: Plot # 2, Road # 3, Block # B, R.S. Dag No. 1161, Khatian No. 6565, Khejurbagan, Mouza - Ashulia, P.S. Savar, District - Dhaka
Present Status of the Factory	: Under Operation
Structural Assessment Conducted by	: BUET
Date of Structural Inspection	: 5 th November 2014

BASIC INFORMATION:

The present garment factory is a commercial building with flat-plate system. The following information were noted:

i. Building Usage Type	: Primarily as Garments Factory.
ii. Structural System	: Flat plate system with edge beams.
iii. Floor System	: Flat plate solid floor with edge beams.
iv. Floor Area	: Approx. 15800 sq. ft per floor (as per approval drawings).
v. No. of Stories	: One
vi. Construction Year	: Phase 1: 2004 (as per verbal information) / 2008 (as per previous report)
vii. Foundation Type	: Isolated footing (as per previous report)
viii. Design Drawings	: Approval drawing available (approval from Ashulia Union on 12-12-2012).
ix. Soil Investigation Report	: Not available
x. Construction Materials	: Reinforced Concrete with brick chips (as reported) and steel plain rebar 60 Grade (assumed as per construction year).
xi. Generator	: One generator is outside of main factory 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)	: The factor of safety for this building has been found high with the existing gravity load. However, the roof surface should be treated so that water logging does not occur.

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

Name of the Factory	: 3A Fashions Ltd.
Fire & Electrical assessment conducted by	: BUET
Date of Fire & Electrical Inspection	: 1 st December 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 (Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity)</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 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 (The remedial works indicated must be carried out within a period of 6 weeks)</p>	<p>Produce proper drawing and plans to create horizontal fire-rated separation for grills, storage and assembly areas, offices, work areas. Also design to ensure proper separation of high risk areas (e.g., boiler and substation rooms) as per guidelines. Remove all collapsible gates/roller shutters/sliding doors.</p>
	<p>Remove all collapsible gates/roller shutters/sliding doors. Produce design drawings to demonstrate how to convert exit doors 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>Long Term (The remedial works indicated must be carried out within a period of 6 months)</p>	<p>Install horizontal fire-rated separation for grills, storage and assembly areas, offices, work areas.</p> <p>Ensure proper fire separation of high risk areas (e.g., boiler and substation rooms) as per approved design.</p>

(B): Recommendations for Electrical Safety corrective actions:

Electrical Safety Issues	
<p>Immediate (the factory should not continue to be occupied until these non-conformities have been rectified):</p>	N/A
<p>Short Term (Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity)</p>	<p>Provide instructions for first aid and artificial respiration from exposure to electrical shock.</p> <p>Ensure well-dressed cabling with lugs and remove loose cabling.</p> <p>Provide distribution board as per guideline and put identification mark on distribution panel.</p> <p>Remove burnt/broken/loose MCB/MCCB box/socket.</p>
<p>Mid Term (The remedial works indicated must be carried out within a period of 6 weeks)</p>	N/A
<p>Long Term (The remedial works indicated must be carried out within a period of 6 months)</p>	N/A