

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory : WINSOME DESIGN & FASHION LTD.
Address of the Factory : Bahir Tengra, Taltala, Sharulia, Demra, Dhaka
Present Status of the Factory : Under Operation
Structural Assessment Conducted by : BUET
Date of Structural Inspection : 11th September 2014

BASIC INFORMATION:

The factory building composed of two single storied steel truss structure supported on RC columns and steel pipes. The following information was noted:

- i. Building Usage Type : Garments Factory
- ii. Structural System : Steel truss supported on RC column and Steel pipes (dia 5 inch)
- iii. Floor System : Slab on ground
- iv. Floor Area : 3200 ft² and 3500ft²; Total 6700 ft²
- v. No. of Stories : Single
- vi. Construction Year : 2007-2008
- vii. Foundation Type : Isolated footing: 3'X3' at the depth of 6' (As per verbal information)
- viii. Design Drawings : Not Available.
- ix. Soil Investigation Report : Not available
- x. Construction Materials : Steel truss and Reinforced Concrete, Brick chips, Steel Pipes
- xi. Generator : 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 to prepare as-built drawing. The factory owner has to prepare and submit the load plan for all floors.

Mid Term (6-weeks) : None

Long Term (6-months) : None

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

Name of the Factory : Winsome Design & Fashion Ltd.

Fire & Electrical assessment conducted by : BUET

Date of Fire & Electrical Inspection : 20th September 2014

(A): Recommendations for Fire Safety corrective actions:

Fire Safety Issues	
Immediate (the factory should not continue to be occupied until these non-conformities have been rectified):	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>Remove all combustible materials from near the generator space.</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 (The remedial works indicated must be carried out within a period of 6 weeks)</p>	<p>Produce proper drawing and plan to create horizontal and vertical fire-rated separation for storage, offices and work areas.</p> <p>Provide design for separate fire rated exit passageway to ensure proper separation of high risk areas (e.g., generator) as per guidelines.</p> <p>Remove all sliding doors.</p> <p>Provide design to install proper detection and alarm system.</p>
<p>Long Term (The remedial works indicated must be carried out within a period of 6 months)</p>	<p>Install horizontal and vertical fire-rated separation for storage, offices and work areas and fire door for storage.</p> <p>Provide proper fire rated exit passageway to ensure proper separation of high risk areas (e.g., generator) as per approved design.</p> <p>Install proper detection and alarm system.</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. 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 & door with fitted condition.</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>	<p>Provide separate service ducts for electrical cables.</p> <p>Provide new Emergency Lighting system.</p>
<p>Long Term (The remedial works indicated must be carried out within a period of 6 months)</p>	N/A