

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory : Winsome Knit Composite Ltd.
Address of the Factory : Kakil Sataish, Modafa Vadam Road, Tongi, Gazipur
Present Status of the Factory : Under Operation
Structural Assessment Conducted by : BUET
Date of Structural Inspection : 29th March 2014

BASIC INFORMATION:

The factory building is a one storied steel structure. The building has steel beam-column framing system. The following information was noted:

- i. Building Usage Type : Garment factory
- ii. Structural System : Steel Beam-Column frame system. Steel columns resting on concrete foundation.
- iii. Floor System : Ground supported slab
- iv. Floor Area : Approximately 16500 sq.ft per floor (typical grid spacing: 20'x40')
- v. No. of Stories : One story
- vi. Construction Year : 2008
- vii. Foundation Type : Drawing is not available
- viii. Design Drawings : Architectural drawing was available but as-built drawing was not found.
- ix. Soil Boring Report : Not available.
- x. Construction Materials : Steel and Reinforced Concrete.
- 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) : The factory owner has been instructed to prepare and submit a load plan for vetting. As-built drawing need to be prepared by a competent engineer.

Mid Term (6-weeks) : None

Long Term (6-months) : None

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

Name of the Factory : Winsome Knit Composite Ltd.

Fire & Electrical assessment conducted by : BUET

Date of Fire & Electrical Inspection : 11 September 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>Remove all combustible materials from generator room.</p> <p>Maintain minimum effective width of corridors, passageways and aisles.</p> <p>Confirm adequate numbers of fire drills.</p> <p>Make sure that portable extinguishers are 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 between storage, assembly areas, offices, and work areas. Also show methods to ensure proper separation of high risk areas (e.g., generator, transformer and boiler rooms) as per the Guidelines.</p> <p>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 fire-rated separation between storage, assembly areas offices, and work areas.</p> <p>Ensure proper separation of high risk areas (e.g., generator, boiler, transformer rooms) as per the Guidelines.</p> <p>Install proper detection and alarm system. Provide fire rated door as per guidelines.</p>

(B): Recommendations for Electrical Safety corrective actions:

Electrical Safety Issues	
<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 cover on the cable trench and 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 <u>identification mark on distribution panel.</u></p>
<p>Mid Term <i>(The remedial works indicated must be carried out within a period of 6 weeks)</i></p>	<p>Provide separate service ducts 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