

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory	: Blooming Knitwear Limited
Address of the Factory	: Beltola, Nayarhat, Nabinagar, Savar, Dhaka
Present Status of the Factory	: Under Operation
Structural Assessment Conducted by	: BUET
Date of Structural Inspection	: 21 st November 2014

BASIC INFORMATION:

The present garment factory is a single storey shed with timber roof. The following information were noted:

- i. Building Usage Type : Primarily as Garments Factory
- ii. Structural System : Timber roof with brick column support
- iii. Floor System : Ground floor: On-grade Cement Concrete (CC) slab, Roof: CGI shed
- iv. No. of Stories : Single storey
- v. Construction Year : Unknown
- vi. Foundation Type : Not known
- vii. Design Drawings : Not available
- viii. Soil Investigation Report : Not Available
- ix. Construction Materials : Brick masonry and timber
- x. Generator : One generator is inside the shed

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) : A Detail Engineering Assessment (DEA) has to be completed.

Long Term (6-months) : Necessary remediation's after completion of DEA.

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

Name of the Factory	: Blooming Knitwear Limited
Fire & Electrical assessment conducted by	: BUET
Date of Fire & Electrical Inspection	: 25 th November 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. Maintain minimum effective width of corridors, passageways and aisles. Remove all combustible materials from generator room. Confirm adequate numbers of fire drills. Ensure that portable extinguishers are easily accessible, monitored and maintained at regular interval as per the Guidelines. 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 inside one floor, e.g. separation with storage, and work areas as per the Guidelines. Prepare plans to ensure all exit access doors are side-swinging type and open to the direction of traffic flow. Also show methods to ensure proper separation of high risk areas (e.g., generator rooms) as per the Guidelines. Provide plan to install standard standpipe, hose and fire pump system. 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 inside one floor e.g. separation with storage, offices, and work areas. Ensure all exit access doors are side-swinging type and open to the direction of traffic flow. Ensure proper separation of high risk areas (e.g., generator rooms) as per the Guidelines. Install proper detection and alarm system. Install standard standpipe, hose and fire pump system.</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>	<p>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. 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. Remove burnt/broken/loose socket.</p>
<p>Mid Term <i>(The remedial works indicated must be carried out within a period of 6 weeks)</i></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>	<p>N/A</p>