

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

Name of the Factory	: Core Spun Apparel Limited
Address of the Factory	: 189/A Tejgaon I/A, Dhaka-1208
Present Status of the Factory	: Under Operation
Structural Assessment Conducted by	: BUET
Date of Structural Inspection	: 4 <sup>th</sup> November

### **BASIC INFORMATION:**

The present garment factory is a seven storied industrial building with beam-column frame system in the upper floors and partly flat plate in the ground floor (west side). The following information were noted:

- i. Building Usage Type : Primarily as Garments Factory.
- ii. Structural System : Mostly RC beam column frame structure, partly flat plate in ground floor.
- iii. Floor System : Edge supported RC solid floor slab system on RC beam and partly flat plate in ground floor.
- iv. Floor Area : Approx.2,500 sft/floor (as per structural drawing).
- v. No. of Stories : Seven story.
- vi. Construction Year : Information not available.
- vii. Foundation Type : Individual footing of different sizes
- viii. Design Drawings : Approval from RAJUK (Nov 2006) and as-built Drawing Available (AJM SHAFI, FIEB-10802, Karim Chamber, 99 Motijheel C/A, Dhaka).
- ix. Soil Investigation Report : Available (S.B. BORING & ENGINEERING, Kha/198, Middle Badda, Dhaka-1212).
- x. Construction Materials : Reinforced Concrete with brick chips and deformed rebars 60 grade.
- xi. Generator : One Generator is located in the Ground Floor 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) : A Detail 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 : Core Spun Apparel Ltd.

Fire & Electrical assessment conducted by : BUET

Date of Fire & Electrical Inspection : 15<sup>th</sup> October 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 <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 all temporary obstructions from all escape routes, aisles and passageways.</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 English 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>Produce proper drawing and plans to create horizontal and vertical fire-rated separation for stairways of appropriate specifications, grills, storage, offices, and work areas. Also design to ensure proper separation of high risk areas (e.g., generator, boiler, transformer and substation rooms) as per guidelines.</p> <p>Remove all collapsible gates/roller shutters. Produce design drawings to demonstrate how stairways are to be made of adequate dimensions and appropriate specifications and to be converted 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>Produce design to install standard standpipe, hose and fire pump system.</p> <p>Provide design to install proper detection and alarm system.</p> <p>Install command station as per guidelines.</p>
<p>Long Term <i>(The remedial works indicated must be carried out within a period of 6 months)</i></p>	<p>Install horizontal and vertical fire-rated separation for stairways of appropriate specifications, grills, storage, offices, and work areas.</p> <p>Ensure proper fire separation of high risk areas (e.g., generator, boiler, transformer and substation rooms) 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 standard standpipe, hose and fire pump system.</p> <p>Install proper detection and alarm system.</p> <p>Provide fire rated enclosure, install self-closing fire rated door as per guidelines.</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>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>

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Mid Term <i>(The remedial works indicated must be carried out within a period of 6 weeks)</i>	Provide separate service ducts for electrical cables. Provide appropriate Lightning Protection System as per guidelines.
Long Term <i>(The remedial works indicated must be carried out within a period of 6 months)</i>	N/A