

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

Name of the Factory	: Daiichi Fiber (BD) Ltd.
Address of the Factory	: 287/B, Rehab Zone, Khilgaon Taltola, Dhaka-1219.
Present Status of the Factory	: Under Operation
Structural Assessment Conducted by	: BUET
Date of Structural Inspection	: 29 <sup>th</sup> October 2014

### **BASIC INFORMATION:**

The present garment factory is designed as a 6-storied residential building with beam-column frame system. The following information were noted:

i. Building Usage Type	: Garments and Residential
ii. Structural System	: RC beam column frame structure
iii. Floor System	: Edge supported RC solid floor slab system on RC beam.
iv. Floor Area	: Approx. 148 m <sup>2</sup> /floor (as per RAJUK drawings).
v. No. of Stories	: Three (against designed and approved as six storied residential building)
vi. Construction Year	: 2001-02, 2008-09
vii. Foundation Type	: Individual footings of different sizes as found in the drawings. (8'-0" × 8'-0" for central columns and 7'-0" x 7'-0" for corner and edged columns according to owner's opinion)
viii. Design Drawings	: RAJUK Approval Drawing available (RAJUK/North/3C-1299/2000/1252, Dt. 20/12/2000)
ix. Soil Investigation Report	: Available.
x. Construction Materials	: Reinforced Concrete with brick chips (as reported) and steel plain rebars 40 Grade.
xi. Generator	: One 15 KVA transformer is located in ground floor (near gate) 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) : None

Mid Term (6-weeks) : The factory owner has been instructed to prepare and submit a load plan for vetting.

Long Term (6-months) : None

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

Name of the Factory : Daiichi Fiber (BD) Ltd.

Fire & Electrical assessment conducted by : BUET

Date of Fire & Electrical Inspection : 25<sup>th</sup> 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

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

<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 transformer/substation/ boiler/ generator room.</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 plans to create horizontal and vertical fire-rated separation for work areas with the rest of the occupancy and within its work areas.</p>
<p>Long Term (The remedial works indicated must be carried out within a period of 6 months)</p>	<p>Ensure proper horizontal and vertical fire-rated separation for work areas with the rest of the occupancy and within its work areas.</p> <p>Remove all collapsible doors.</p> <p>Install fire rated doors of appropriate dimensions at exit way 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>Ensure earthing of panel body &amp; 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