

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

Name of the Factory	: Creative Sweaters (Pvt.) Ltd.
Address of the Factory	: I/A, Shilpa Plot, Darus Salam Road, Mirpur-1, Dhaka-1216
Present Status of the Factory	: Under operation.
Structural Assessment Conducted by	: BUET
Date of Structural Inspection	: 19 November, 2013
Fire Assessment Conducted by	:
Date of Fire Inspection	:
Electrical Assessment Conducted by	:
Date of Electrical Inspection	:
BGMEA Membership No.	: 1689

### **BASIC INFORMATION:**

The factory building is a ten- storied (G+9) RCC frame building. The following information was noted:

- i. Building Usage Type : Garment Factory.
- ii. Structural System : RCC beam column system.
- iii. Floor System : RCC Beam slab.
- iv. Floor Area : 6118 sft (Approx.)
- v. No. of Stories : 10 (G+9)
- vi. Construction Year : 1992-1995
- vii. Foundation Type : Isolated column footing
- viii. Design Drawings : Available
- ix. Soil Investigation Report : Available
- x. Construction Materials : Stone aggregate.
- xi. Generator : Ground Floor.

### **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 consultants strongly recommend storing any type of cartoon boxes, finished products and fabrics in such a manner so that intensity of loading should not exceed 60 psf (3.0 kN/m<sup>2</sup>)
- Efflorescence/damp on some areas of plasters of the exterior walls of 6<sup>th</sup> floor and 7<sup>th</sup> floor of the building shall be repaired.
- Mid Term (6-weeks) : The factor of safety for this building has been found to be low with the existing gravity load. it is recommended to have a detail engineering assessment (DEA) of the structure as per section 17.2 of NTC guideline.
- Coring with 4 nos. 4 in. cores (3 in. when taken from column) for the building and scanning of rebar. Besides, scanning of all columns shall be conducted to verify the number of rebar in the columns. The results of these tests will be used in the DEA.

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

---

Long Term (6-months) : N/A

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

**(A): Recommendations for Fire Safety Corrective Actions:**

Immediate  <i>(the factory should not continue to be occupied until these non-conformities have been rectified):</i>	
Short Term  <i>(Actions that must be incorporated into a Fire Safety Management Plan immediately (1 ~ 2 weeks) and should be a regular activity</i>	
Mid Term  <i>(The remedial works indicated must be carried out within a period of 6 weeks)</i>	
Long Term  <i>(The remedial works indicated must be carried out within a period of 6 months)</i>	

**(B): Recommendations for Electrical Safety Corrective Actions:**

Immediate  <i>(the factory should not continue to be occupied until these non-conformities have been rectified):</i>	
Short Term  <i>(Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity</i>	

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

---

Mid Term <i>(The remedial works indicated must be carried out within a period of 6 weeks)</i>	
Long Term <i>(The remedial works indicated must be carried out within a period of 6 months)</i>	