

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory	: The Chittagong Garments Ltd.
Address of the Factory	: 4/1 SulakBahar (3rd Floor), Abdul Hamid Road, Panchalaish, Chittagong
Present Status of the Factory	: Under operation.
Structural Assessment Conducted by	: TUV
Date of Structural Inspection	: 24 March, 2015
Fire Assessment Conducted by	:
Date of Fire Inspection	:
Electrical Assessment Conducted by	:
Date of Electrical Inspection	:
BGMEA Membership No.	: 1120

BASIC INFORMATION:

This is a four storied RCC building. The following information was noted:

i. Building Usage Type	: Garment Factory.
ii. Structural System	: Four storied RCC beam column frame structure building. Partial MS Angle shed with beam frame structure on roof.
iii. Floor System	: Beam slab and MS Angle shed.
iv. Floor Area	: Plinth 9600 sq. ft and total 43250 sq. ft
v. No. of Stories	: Four storey
vi. Construction Year	: 1st phase construction ground floor to 2nd floor in 1987-1990. 2nd phase construction 3rd floor in 1992 & 3rd phase construction vertical extension at roof in 2014
vii. Foundation Type	: Not identified.
viii. Design Drawings	: Available (Approval for 4 storey residential building from Authorization Comity of E.B.B.C Chittagong in 5th September, 1985)
ix. Soil Investigation Report	: Available
x. Construction Materials	: Brick 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)	: 1. Empty the cantilever area and north portion as identified in detail observation 2. Factory Engineer to review design, loads and columns stresses for all columns. 3. Verify in-situ concrete stresses by 100mm dia. cores from 4 columns. 4. A Detail Engineering Assessment of Factory to be commenced, see attached Scope
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- Mid Term (6-weeks) : 1. Produce and actively manage a loading plan for all floor plates within the factory giving consideration to floor capacity and column capacity.
2. Reduce load on column by removing upper levels of structure.
3. Detail Engineering Assessment to be completed
- Long Term (6-months) : 1. Continue to implement load plan.

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>	
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Short Term <i>(Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) 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>	