

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory	: Attires Manufacturing Co. Ltd.
Address of the Factory	: 235/B, Bir Uttam Shaokat Road, Tejgaon Industrial Area, Dhaka.
Present Status of the Factory	: Under operation.
Structural Assessment Conducted by	: BUET
Date of Structural Inspection	:
Fire Assessment Conducted by	:
Date of Fire Inspection	:
Electrical Assessment Conducted by	:
Date of Electrical Inspection	:
BGMEA Membership No.	: 2107

BASIC INFORMATION:

The consultants observed that the factory consists of two buildings. The old building (Bldg-1) is a four storied RC beam column frame structure and located at the front (adjacent to the road). The new building (Bldg-2) is a nine storied RC beam column building with a lift core and a basemen. The following information was noted:

i. Building Usage Type	: Garment Factory.
ii. Structural System	: RC Frame Building.
iii. Floor System	: Edge supported RC slab (thickness of 150mm and 125mm for old and new building, respectively as per supplied drawings).
iv. Floor Area	: Old Building (Bldg-1): Approximately 500 sq. m per floor with typical grid of 7.0 m by 4.3 m, New Building (Bldg-2): Approximately 375 sq. m per floor with typical grid of 5.7 m by 5.2 m
v. No. of Stories	: Four story (old building) & Nine story + 1 Basement (new building)
vi. Construction Year	: Old building in phases (1984&1996-1997); New building (2001-02)
vii. Foundation Type	: Isolated footing for old building (as per drawing) Mat foundation for new building
viii. Design Drawings	: Available (Part)
ix. Soil Investigation Report	: Available
x. Construction Materials	: Reinforced Concrete (Bldg-1: brick chips and Bldg-2: stone chips as coarse 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. Other than ground floor loading intensity should be strictly maintained as 50 psf (2.50 kN/m ²). 2. Potential of pounding effect should be evaluated and necessary measures should be taken to ensure overall safety of both the building as early as possible.
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3. No modification of the structural configuration or further construction is to be carried out without detail analysis.

Mid Term (6-weeks) : Boiler and compressor units located at 1st floor of the new building (Bldg-2) should be relocated at ground floor.

Long Term (6-months) : N/A

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

(A): Recommendations for Fire Safety Corrective Actions:

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

(B): Recommendations for Electrical Safety Corrective Actions:

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

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Long Term

(The remedial works indicated must be carried out within a period of 6 months)