

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

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Name of the Factory	: MAZIB FASHIONS LTD.
Address of the Factory	: Plot 1361, Siddirgonj, Mijimizi, Narayanganj
Present Status of the Factory	: Under operation.
Structural Assessment Conducted by	: TUV
Date of Structural Inspection	: 5 February, 2015
Fire Assessment Conducted by	:
Date of Fire Inspection	:
Electrical Assessment Conducted by	:
Date of Electrical Inspection	:
BGMEA & BKMEA Membership No.	: 5934 & 915

### **BASIC INFORMATION:**

The surveyed building was 6 story RCC structure and it was a beam column frame structure. The following information was noted:

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|-------------------------------|--|
| i. Building Usage Type        | : Garment Factory.   |
| ii. Structural System         | : RCC beam column system.  |
| iii. Floor System             | : RCC Beam slab.   |
| iv. Floor Area                | : The typical plinth area is 5041 sq. ft. and total production floor is 20,160 sq. ft. |
| v. No. of Stories             | : 6 Story  |
| vi. Construction Year         | : 2004 to 2014   |
| vii. Foundation Type          | : Isolated Footing (As per structural drawing)   |
| viii. Design Drawings         | : Available (Signed by Siddirganj Pouroshava on 27th March, 2006)                      |
| ix. Soil Investigation Report | : Available  |
| x. Construction Materials     | : Brick aggregate.   |
| xi. Generator                 | : Outside of north west portion of the main 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:

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| Short Term (Immediate) | : 1. Factory Engineer to review design, loads and columns stresses in all columns.<br>2. Verify insitu concrete strength by taking 100mm diameter cores from 4 No. basement columns. Verify reinforcement grade, diameter and number of bars in columns.<br>3. A Detail Engineering Assessment of Building to be commenced, see attached Scope.<br>4. Factory Engineer to review design of all the structural members with actual condition for illogical vertical load transfer as a part of detail engineering assessment. |
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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. Detail Engineering Assessment to be completed
3. Factory Engineer to review design of all the cantilevers and structural elements with actual condition as part of DEA.
4. Factory Engineer to review design of the stair and structural members with actual condition as part of DEA.
5. Carry out any remedial actions for illogical vertical load transfer as directed by the Building Engineer.
- Long Term (6-months) : 1. Continue to implement loading plan.
2. As built drawing to be completed as part of DEA.
3. Carry out any remedial actions for unapproved stair as directed by the Building Engineer.

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>	
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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>	