

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

Name of the Factory	: Birds A & Z Ltd. (Building-1)
Address of the Factory	: 113, Baipail, Ashulia, Savar, 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.	: 3179

### **BASIC INFORMATION:**

The factory building is a five storied (G+4) RCC building with ribbed floor system. The following information was noted:

- i. Building Usage Type : Garment Factory.
- ii. Structural System : RCC beam column system.
- iii. Floor System : Edge support R.C floor slab system with R.C. beams at the edges. Two-way solid floor system (with prefabricated prestressed concrete panel for approx. 50% floor area) is adopted for the ceiling of ground floor. For typical floors, ribbed floor system with hollow concrete blocks has been adopted.
- iv. Floor Area : Approx. 24000 sft per floor.
- v. No. of Stories : At present 5 (G+4) an extended portion on the roof, covering approximately 30% floor area has C.I sheet roof.
- vi. Construction Year : 1<sup>st</sup> phase: 1999-2001 and 2<sup>nd</sup> phase: 2006-2008
- vii. Foundation Type : Individual footing (as per structural drawing) with different bearing areas and variable thickness.
- viii. Design Drawings : Available
- ix. Soil Investigation Report : Available
- x. Construction Materials : Stone aggregate.
- xi. Generator : Outside the factory 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. The consultants strongly recommend storing any type of carton boxes, finished products and fabrics in such a manner so that intensity of loading should not exceed 60 psf (2.85 kN/m <sup>2</sup> )          |
| Mid Term (6-weeks)     | : 1. Cracked and partially damaged net cement finished topping in floors at different floors of the building shall be repaired by adopting appropriate method for both aesthetic and serviceability requirements. |
| Long Term (6-months)   | : 1. No horizontal or vertical extension of the building shall be made without detail engineering assessment.   |

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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>	
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>	