

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory	: Birds A & Z Ltd. (Building-2)
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	: 27 December, 2013
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 four storied (G+3) RCC building with one basement and one mezzanine floor (covering approx. 30% area of the floor). 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 pre stressed 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. 5390 sft for basement floor, 6256 sft for ground floor, 2103 sft for mezzanine floor and 7050 sft for typical floors.
v. No. of Stories	: At present 4 (G+3) and one basement floor and one mezzanine floor.
vi. Construction Year	: 2009-2012
vii. Foundation Type	: Mat foundation with uniform 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:

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 ²)
Mid Term (6-weeks)	: N/A
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>	