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

Name of the Factory : Bonny & Bonny Apparels (Pvt.) Ltd.

: ½, Chowdhury Para, D.I.T Road, Khilgaon, Malibagh, Address of the Factory

Dhaka

Present Status of the Factory : Under Operation

Structural Assessment Conducted by : BUET

: 28<sup>th</sup> January 2014 Date of Structural Inspection

Fire & Electrical Assessment Conducted by : BUET

Date of Fire & Electrical Inspection :

#### **BASIC INFORMATION:**

The currently 4-storied building has RCC beam-column structure systems in all floors. The following information was noted:

i. Building Usage Type : Mostly garment factories (with 300 staffs) and few shops at

ground floor

ii. Structural System : RCC beam-column system

iii. Floor System : Edge supported RCC slabs (with 138mm thickness)

: Approximately 300sq. m per floor with typical grid mostly of iv. Floor Area

4.78 m by 6.70m

: Four story covering about 50% planar area of the approved v. No. of Stories

building

vi. Construction Year : In phases (2005-06)

: Pile foundation (as per drawing) vii. Foundation Type

viii. Design Drawings : Available partly

ix. Soil Investigation Report : Available; conducted by Geotech Engineers and Consultant in

2004

x. Construction Materials : Reinforced Concrete; brick aggregate in slabs and beams above

ground floor and stone aggregate in all columns and

underground RCC elements (verified during inspection)

: located in ground floor of the building xi. Generator

### **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) : None

Mid Term (6-weeks) : None

Long Term (6-months) : None

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Fire & Electrical assessment conducted by : BUET

Date of Fire & Electrical Inspection : 27 December 2013

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## (A): Recommendations for Fire Safety corrective actions:

Immediate (the factory should not continue to be occupied until these non-conformities have been rectified):	N/A
Short Term (Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity	Remove all temporary obstructions from all escape routes, aisles and passageways.
	Ensure minimum width of corridors, passageways and aisles.
	Ensure easy access to portable extinguishers and monitor and maintain the same at required interval as per guidelines.
	Provide exit sign in Bangla and English as per guidelines
Mid Term (The remedial works indicated must be carried out within a period of 6 weeks)	Produce proper drawing and plans to create horizontal and vertical fire-rated separation for stairways of appropriate specifications, grills, storage and assembly areas, basement, offices, work areas. Also design to ensure proper separation of high risk areas (e.g., generator, boiler, transformer and substation rooms) as per guidelines.
	Remove all collapsible gates. Produce design drawings to demonstrate how stairways are to be made of adequate dimensions and appropriate specifications and to be converted into fire-rated enclosures equipped with fire-rated side swinging doors of required dimensions opening in the direction of travel at each floor.
Long Term (The remedial works indicated must be carried out within a period of 6 months)	Provide design to install proper detection and alarm system.  Install horizontal and vertical fire-rated separation for stairways, grills, storage and assembly areas, basement, offices, work areas.
	Ensure proper fire separation of high risk areas (e.g., generator, boiler, transformer and substation rooms) as per approved design
	Install fire rated enclosure and doors at exit to the stairs to prevent smoke and fire propagation as per approved design
	Install proper detection and alarm system.
	Provide fire rated enclosure, install self closing fire rated door as per guidelines.

### (B): Recommendations for Electrical Safety corrective actions:

Immediate	
(the factory should not continue to be occupied until these non-conformities have been rectified):	N/A

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

d and artificial respiration
th lugs and remove loose
door with fitted condition.
per guideline and put
n panel.
electrical cables.
gsystem
Protection System as per