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

Name of the Factory : Anjan's Fashion

Address of the Factory : 71/B, Malibagh, Chowdhury Para, Khilgaon, Dhaka-1219

Present Status of the Factory : Under Operation

Structural Assessment Conducted by : BUET

Date of Structural Inspection : 27<sup>th</sup> September 2014

#### **BASIC INFORMATION:**

The factory building is a seven storied RC frame building. The revised plan of the building was approved by RAJUK as eight storied commercial building in 2011. The following information was noted:

i. Building Usage Type
 ii. Structural System
 iii. Floor System
 iii. Garment factory
 iii. RC Frame Building
 iii. RC beam supported slab

iv. Floor Area : Approximately 4500 sft (418.1 sq. m) per floor

v. No. of Stories : Existing seven story

vi. Construction Year : 1986-87 vii. Foundation Type : Not available

viii. Design Drawings : Structural drawing is not available but Architectural drawing is

available

ix. Soil Boring Report : Available

x. Construction Materials : Reinforced Concrete, Coarse Aggregate is Brick Chips

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) : The factory owner has been instructed to prepare and submit a load

plan of the factory building.

Mid Term (6-weeks) : The factor of safety for this building has been found low with the

existing gravity load. A Detail Engineering Assessment (DEA) has

to be completed.

Long Term (6-months) : Necessary remediation's after completion of DEA.

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

Name of the Factory : Anjan's Fashion

Fire & Electrical assessment conducted by : BUET

Date of Fire & Electrical Inspection : 21<sup>st</sup> December 2014

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

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

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Short Term (Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity	Remove obstructions from all escape routes, aisles and passageways.
	Maintain minimum effective width of corridors, passageways and aisles.
	Confirm adequate numbers of fire drills.
	Ensure that portable extinguishers are easily accessible, monitored and maintained at regular interval as per the Guidelines.
	Provide proper directional signs and exit signs in Bangla and English as per the Guidelines.
carried out within a period of 6 weeks)	Prepare drawings to ensure adequate horizontal and vertical fire-rated separation inside one floor and between different floors, e.g. separation with stairways, storage, assembly areas, and work areas as per the Guidelines.
	Prepare plans to ensure all exit access doors are side-swinging type and open to the direction of traffic flow.
	Produce 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 doors.
	Provide design to install standard standpipe, hose and fire pump system.
	Provide design to install proper detection and alarm system.
	Establish command station as per the Guidelines.
carried out within a period of 6 months)	Ensure adequate horizontal and vertical fire-rated separation inside one floor and between different floors, e.g. separation with stairways, storage, assembly areas, offices, and work areas.
	Ensure proper separation of high risk areas (e.g., generator, boiler, transformer and substation rooms) as per the guidelines.
	Install standard standpipe, hose and fire pump system.
	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:

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

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

Short Term (Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity	Provide instructions for first aid and artificial respiration from exposure to electrical shock.
	Ensure well-dressed cabling with lugs and remove loose cabling.
	Ensure earthing of panel body & door with fitted condition.
	Provide distribution board as per guideline and put identification mark on distribution panel.
Mid Term	Provide separate service ducts for electrical cables.
(The remedial works indicated must be carried out within a period of 6 weeks)	Provide new Emergency Lighting system.
	Provide appropriate Lightening Protection System as per guidelines.
Long Term (The remedial works indicated must be carried out within a period of 6 months)	N/A