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

Name of the Factory : Azra Enterprise Ltd.

Address of the Factory : 244, North Badda (Ground, 1st & 2nd Floor), Satarkul

Road, Dhaka.

Present Status of the Factory : Under Operation

Structural Assessment Conducted by : BUET

Date of Structural Inspection : 15<sup>th</sup> June 2014

#### **BASIC INFORMATION:**

The factory building is a 6 storied RC structure and has reinforced concrete beam-column framing system structure. The following information was noted:

i. Building Usage Type : Garment factory

ii. Structural Systemiii. Floor Systemiii. Edge supported RC slabs

iv. No. of Storiesv. Construction Yearis Six storiesis Not known

vi. Foundation Type : Not known (no drawing is available)

vii. Design Drawings
viii. Soil Investigation Report
ix. Construction Materials
x. Generator
ix. Not available
ix. Reinforced Concrete
ix. At the 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 for

vetting. Tin shed structures at the top of the building should be removed immediately. The generator situated in GF produces significant vibration. It

should be relocated outside the building.

Mid Term (6-weeks) : None

Long Term (6-months) : A Detail Engineering Assessment (DEA) has to be completed. Necessary

remediation's after completion of DEA.

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

Name of the Factory : Azra Enterprise Ltd.

Fire & Electrical assessment conducted by : BUET

Date of Fire & Electrical Inspection : 30<sup>th</sup> January 2014

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

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

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(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.
	Remove all combustible materials from generator room.
	Ensure minimum width of corridors, passageways and aisles.
	Ensure adequate numbers of fire drills.
	Ensure easy access to portable extinguishers and monitor and maintain the same at required interval as per guidelines.
(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, 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/roller shutters. 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.
	Produce design to install standard standpipe, hose and fire pump system.
	Provide design to install proper detection and alarm system.
	Install command station as per guidelines.
(The remedial works indicated must be carried out within a period of 6 months)	Install horizontal and vertical fire-rated separation for stairways of appropriate specifications, grills, storage and assembly areas, 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 of appropriate dimensions at exit to the stairs to prevent smoke and fire propagation as per approved design.
	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:

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

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(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.  Remove broken/loose MCB/MCCB box/socket.
(The remedial works indicated must be carried out within a period of 6 weeks)	Provide separate service ducts for electrical cables.  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