Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory : April Fashions Ltd.

Address of the Factory : Plot # 115, Khapara Road, Tongi, Gazipur

Present Status of the Factory : Under Operation

Structural Assessment Conducted by : BUET

Date of Structural Inspection : 8th May 2014

BASIC INFORMATION:

The factory building is a four storied RC structure. The building has reinforced concrete beam-column framing system structure in the first floor and flat plate system in the upper floors. The following information was noted:

i. Building Usage Type : Garment factory

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

iv. Floor Area : Approximately 9000 sq.ft per floor (typical grid spacing:

12'x19')

v. No. of Stories : Four story vi. Construction Year : 2010

vii. Foundation Type : Shallow footing (as per drawing)

viii. Design Drawings : Available but differs substantially with actual layout

ix. Soil Investigation Report : Available

x. Construction Materialsxi. Generator: Reinforced Concrete: Outside the 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) : The factory owner has been instructed to prepare and submit a

load plan for vetting. Live load should be limited to 40 psf.

Mid Term (6-weeks) : 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 : April Fashions Ltd.

Fire & Electrical assessment conducted by : BUET

Date of Fire & Electrical Inspection : 15th September 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

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

(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.
	Remove all combustible materials from transformer, substation, boiler and generator room, if exists.
	Confirm adequate numbers of fire drills.
	Make sure 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.
(The remedial works indicated must be 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, offices 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.
	Also show methods to ensure proper separation of high risk areas (e.g., generator, boiler, transformer and substation rooms) as per the Guidelines.
	Provide design to install proper detection and alarm system.
(The remedial works indicated must be 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, offices, and work areas.
	Ensure all exit access doors are side-swinging type and open to the direction of traffic flow.
	Ensure proper separation of high risk areas (e.g., generator, boiler, transformer and substation rooms) as per the Guidelines.
	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):		

April Fashions Ltd. Last update on Page 2

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

(Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity	Provide cable trench with cover and rubber mat in front of the
	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 burn/broken/loose MCB/MCCB box/socket.
Mid Term (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.
Long Term (The remedial works indicated must be carried out within a period of 6 months)	, N/A