Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory : B.H.S Fashions Ltd.

Address of the Factory : 238, Ahammed Nagor, Salemuddin Market, Paik Para,

Mirpur-1, Dhaka.

Present Status of the Factory : Under Operation

Structural Assessment Conducted by : BUET

Date of Structural Inspection : 29th March 2014

BASIC INFORMATION:

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

i. Building Usage Type : Garment factory

ii. Structural System : Reinforced concrete beam-column frame structure

iii. Floor System : Edge supported RC slabs.

iv. Floor Area : Approximately 4000 sq.ft per floor (typical grid spacing:

16'x20', 12'x16')

v. No. of Stories : Four story

vi. Construction Year : 1994 (As per verbal information)

vii. Foundation Type : Drawing is not supplied

viii. Design Drawings : Available (The actual layout differs with the supplied drawing).

ix. Soil Investigation Report : Available, dated 30/12/1993.

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. As-built drawings need to be prepared. Regular maintenance of the

building should be done.

Mid Term (6-weeks) : None Long Term (6-months) : None

The recommendations for Fire & Electrical Safety corrective action are:

Name of the Factory : B.H.S Fashions Ltd.

Fire & Electrical assessment conducted by : BUET

Date of Fire & Electrical Inspection : 8th 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):	

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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 all combustible materials from generator room. Ensure 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.
Mid Term	Remove temporary structures from roof top.
(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, work areas as per the Guidelines.
	Ensure all exit access doors are side-swinging type and open to the direction of traffic flow. Show methods to demonstrate how exit doors are to satisfy the occupancy load according to the Guideline
	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 and transformer room) 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 and work areas.
	Ensure proper separation of high risk areas (e.g., generator and transformer room) 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):	$1 \times 1 / \Delta$	

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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	Provide cover on the cable trench and rubber mat in front of the panel.
	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 burnt/broken/loose MCB/MCCB box/socket.
Mid Term	Provide new Emergency Lighting system.
(The remedial works indicated must be carried out within a period of 6 weeks)	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