

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory	: Active Stitch Ltd.
Address of the Factory	: Plot # 25/26, Postogola Industrial Area, Shyampur, Dhaka
Present Status of the Factory	: Under Operation
Structural Assessment Conducted by	: BUET
Date of Structural Inspection	: 22 nd October 2014

BASIC INFORMATION:

The factory building is a 4 storied RC beam column frame structure at Plot # 25/26, Postogola Industrial Area, Shyampur, Dhaka. The following information was noted:

i.	Building Usage Type	: Garment factory building and general shops
ii.	Structural System	: RC Frame Building
iii.	Floor System	: Edge supported RCC slabs
iv.	Floor Area	: Approximately 418 sq. m (4500 sft) per floor
v.	No. of Stories	: Existing 4-Stories, also designed as 4- storied industrial building.
vi.	Construction Year	: 2003-2007
vii.	Foundation Type	: Pile foundation system (as reported)
viii.	Design Drawings	: Available
ix.	Soil Investigation Report	: Sub-soil investigation was conducted at nearby site of the building in May, 2013 by Mitu Soil & Engineering, House # Kha/198, Middle Badda, Badda, Dhaka-1212
x.	Construction Materials	: Reinforced Concrete, stone chips (verified), Reinforcing steel with Frog mark- BSI 500W was found at site.
xi.	Generator	: 100 kVA generator 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)	: None
Mid Term (6-weeks)	: None
Long Term (6-months)	: Pile foundation and foundation adequacy checked by a qualified engineer. Structural adequacy check will also be needed in future for vertical extension of the building.

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

Name of the Factory	: Active Stitch Ltd.
Fire & Electrical assessment conducted by	: BUET
Date of Fire & Electrical Inspection	: 16 th October 2014

(A): Recommendations for Fire Safety corrective actions:

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

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<p>Short Term <i>(Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity)</i></p>	<p>Remove obstructions from all escape routes, aisles and passageways.</p> <p>Maintain minimum effective width of corridors, passageways and aisles.</p> <p>Confirm adequate numbers of fire drills.</p> <p>Ensure that portable extinguishers are easily accessible, monitored and maintained at regular interval as per the Guidelines.</p> <p>Provide proper directional signs and exit signs in Bangla and English as per the Guidelines.</p>
<p>Mid Term <i>(The remedial works indicated must be carried out within a period of 6 weeks)</i></p>	<p>Remove temporary structures from roof top.</p> <p>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.</p> <p>Prepare plans to ensure all exit access doors are side-swinging type and open to the direction of traffic flow.</p> <p>Produce drawings to demonstrate how stairways are to be made of adequate dimensions and appropriate specifications and to be converted into continuous fire-rated enclosures equipped with fire-rated doors.</p> <p>Also show methods to ensure proper separation of high risk areas (e.g., boiler rooms) as per the Guidelines.</p> <p>Provide design to install proper detection and alarm system.</p>
<p>Long Term <i>(The remedial works indicated must be carried out within a period of 6 months)</i></p>	<p>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.</p> <p>Ensure all exit access doors are side-swinging type and open to the direction of traffic flow.</p> <p>Install stairways of adequate dimensions and appropriate specifications and convert into continuous fire-rated enclosures equipped with fire-rated doors.</p> <p>Ensure proper separation of high risk areas (e.g., boiler rooms) as per the Guidelines.</p> <p>Install proper detection and alarm system.</p>

(B): Recommendations for Electrical Safety corrective actions:

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

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<p>Short Term <i>(Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity)</i></p>	<p>Provide instructions for first aid from exposure to electrical shock</p> <p>Ensure well-dressed cabling with lugs</p>
<p>Mid Term <i>(The remedial works indicated must be carried out within a period of 6 weeks)</i></p>	<p>Provide clear identification mark on distribution board.</p> <p>Install MDB/SDB/SB or MCB on metal board.</p> <p>Encase installed MCCB</p> <p>Provide appropriate Lightning protection system.</p>
<p>Long Term <i>(The remedial works indicated must be carried out within a period of 6 months)</i></p>	<p>N/A</p>