

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory	: Silver Composites Textile Mills Ltd.
Address of the Factory	: Taltoli, Monipur, Mirzapur, Gazipur
Present Status of the Factory	: Under Operation
Structural Assessment Conducted by	: BUET
Date of Structural Inspection	: 4 th November 2014

BASIC INFORMATION:

The present garment factory is located in a building with beam-column frame system. The following information were noted:

- i. Building Usage Type : As Garments Factory
- ii. Structural System : RC beam column frame structure
- iii. Floor System : Edge supported RC solid floor slab system on RC beam
- iv. Floor Area : Approx. 4117.5 sq.m./floor (as per structural drawings)
- v. No. of Stories : Six
- vi. Construction Year : 2013-2014
- vii. Foundation Type : Individual footing of different sizes (2.80 m × 2.80 m for corner columns, 3.60 m × 3.60 m for edge and some interior columns and 4.80 m × 4.80 m for interior column as per structural drawing). Combined footings of two different sizes (3.30 m × 3.30 m and 4.90 m × 5.50 m) have been provided as lift pit foundations as per structural drawings.
- viii. Design Drawings : Architectural, Structural and Approval Drawing available (Project Consultants & Construction (PCC), Cha-75/2 Progoti Sarani (Ridge Dale, 4th Floor), Uttar Badda, Dhaka-1212, Phone: 9884347, 8831462).
- ix. Soil Investigation Report : Available (By Soil Layer Exploration, Soil & Foundation Consultants, Ka-16/3-D, Dakshin Kuril, Badda, Dhaka, Phone. 01713061296, 01730167750)
- x. Construction Materials : Reinforced Concrete with stone chips (as observed) and deformed steel rebars of 60 Grade (as observed).
- xi. Generator : One Generator is located 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)	: None
Mid Term (6-weeks)	: None
Long Term (6-months)	: None

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

Name of the Factory	: Silver Composite Textile Mills Ltd.
Fire & Electrical assessment conducted by	: BUET
Date of Fire & Electrical Inspection	: 25 th November 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 (Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity)</p>	<p>Remove obstructions from all escape routes, aisles and passageways.</p> <p>Provide proper directional signs and exit signs in Bangla and English as per the Guidelines.</p>
<p>Mid Term (The remedial works indicated must be carried out within a period of 6 weeks)</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, assembly areas, lift lobby, offices, and work areas as per the Guidelines.</p> <p>Produce drawings to demonstrate how stairways are to be converted into fire-rated enclosures equipped with fire-rated doors.</p> <p>Provide design to install proper detection and alarm system.</p>
<p>Long Term (The remedial works indicated must be carried out within a period of 6 months)</p>	<p>Ensure adequate horizontal and vertical fire-rated separation inside one floor and between different floors, e.g. separation with stairways, storage, assembly areas, lift lobby, offices, and work areas.</p> <p>Install proper detection and alarm system.</p> <p>Provide fire rated enclosure, install fire rated door as per guidelines.</p>

(B): Recommendations for Electrical Safety corrective actions:

Electrical Safety Issues	
<p>Immediate (the factory should not continue to be occupied until these non-conformities have been rectified):</p>	N/A
<p>Short Term (Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity)</p>	Remove burnt/broken/loose MCB/MCCB box/socket.
<p>Mid Term (The remedial works indicated must be carried out within a period of 6 weeks)</p>	Provide appropriate Lightning Protection System as per guidelines.
<p>Long Term (The remedial works indicated must be carried out within a period of 6 months)</p>	N/A

