

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory : Srb Fashions Ltd.
Address of the Factory : 13448 Satarkul Road, Uttar Badda, Dhaka
Present Status of the Factory : Under Operation
Structural Assessment Conducted by : BUET
Date of Structural Inspection : 3rd September 2014

BASIC INFORMATION:

The factory building is a 3 (three) storied Reinforced Concrete (RC) frame building. The following information were noted:

- i. Building Usage Type : Garment factory
- ii. Structural System : RC beam-column framing system
- iii. Floor System : RC beam supported slab
- iv. Floor Area : Approximately 5,724 sft (ground floor) and 6,042 sft (other floors)
- v. No. of Stories : Existing three storeyes plus 3rd floor level is under construction.
- vi. Construction Year : 2008-2010
- vii. Foundation Type : Individual column footings
- viii. Design Drawings : Done by Engr. Md. Ali Shamsur Rahman
- ix. Soil Investigation Report : Not available
- x. Construction Materials : Reinforced Concrete (No test report on construction materials is available), Coarse aggregate: Brick chips
- xi. Generator & Boiler : Located in 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 intensity of loading in any location in the floors should be maintained within the limit of 40 psf (2 kN/m²). The factory owner should arrange displaying the approved load plan for each floor on the wall in a visible location and shall adhere to it.

Mid Term (6-weeks) : The factory owner has been instructed to prepare and submit a load plan. The as-built drawing of the 3rd floor under construction level has to be submitted.

Long Term (6-months) : None

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

Name of the Factory : SRB Fashions Ltd.
Fire & Electrical assessment conducted by : BUET
Date of Fire & Electrical Inspection : 1st September 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 all temporary obstructions from all escape routes, aisles and passageways.</p> <p>Remove all combustible materials from generator room.</p> <p>Ensure minimum width of corridors, passageways and aisles.</p> <p>Ensure adequate numbers of fire drills.</p> <p>Ensure easy access to portable extinguishers and monitor and maintain the same at required interval as per guidelines.</p> <p>Provide proper directional sign and exit sign in Bangla and English as per guidelines.</p>
<p>Mid Term <i>(The remedial works indicated must be carried out within a period of 6 weeks)</i></p>	<p>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 and substation rooms) as per guidelines.</p> <p>Prepare plan 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 fire-rated enclosures equipped with fire-rated doors.</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>Install horizontal and vertical fire-rated separation for stairways of appropriate specifications, grills, storage and assembly areas, offices, and work areas.</p> <p>Ensure proper fire separation of high risk areas (e.g., generator, boiler and substation rooms) as per approved design.</p> <p>Ensure all exit access doors are side-swinging type and open to the direction of traffic flow.</p> <p>Install fire rated enclosure and doors of appropriate dimensions at exit to the stairs to prevent smoke and fire propagation as per approved design.</p> <p>Install proper detection and alarm system.</p> <p>Provide fire rated enclosure, install self-closing fire rated door as per guidelines.</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>
<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 and artificial respiration from exposure to electrical shock.</p> <p>Ensure earthing of panel body & door with fitted condition.</p> <p>Provide distribution board as per guideline and put identification mark on distribution panel.</p> <p>Provide clear identification mark on distribution panel.</p>

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Mid Term <i>(The remedial works indicated must be carried out within a period of 6 weeks)</i>	Provide appropriate Lightning Protection System as per guidelines.
Long Term <i>(The remedial works indicated must be carried out within a period of 6 months)</i>	N/A