

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory : SIDDIQUE STYLE WEAR LTD.
Address of the Factory : West Boxanagar, Sarulia, Demra, Dhaka-1361
Present Status of the Factory : Under Operation
Structural Assessment Conducted by : BUET
Date of Structural Inspection : 15th September 2014

BASIC INFORMATION:

The factory building is a single story shed supported by truss on RC column. The following information was noted:

- i. Building Usage Type : Garment factory
- ii. Structural System : Truss shed on RC column
- iii. Roof System : MS truss supported corrugated MS sheets
- iv. Floor Area : Approximately 7740 sft with typical grid of 13 ft by 39 ft
- v. No. of Stories : One
- vi. Construction Year : 2012
- vii. Foundation Type : Individual footings (4'x4' and 3'x3' as per approval drawing)
- viii. Design Drawings : Approval drawing available (Engr. Md. Kibria Iqbal, MIEB-12243).
- ix. Soil Investigation Report : Available (Micro Soil Engineers, Janata Housing, Shahalibag, Mirpur-1, Dhaka)
- x. Construction Materials : Reinforced concrete with brick chips and rebars of 60 grade, MS angles, purlins, corrugated sheet, etc.
- xi. Generator : 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 as-built drawings shall be prepared including the details of the truss members and bracings.

Mid Term (6-weeks) : None

Long Term (6-months) : None

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

Name of the Factory : Siddique Style Wear Ltd.

Fire & Electrical assessment conducted by : BUET

Date of Fire & Electrical Inspection : 20th 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 obstructions from all escape routes, aisles and passageways.</p> <p>Maintain minimum effective width of corridors, passageways and aisles.</p> <p>Remove all combustible materials from transformer, substation, boiler and generator room, if exists.</p> <p>Confirm adequate numbers of fire drills.</p> <p>Make sure 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>Prepare drawings to ensure adequate horizontal and vertical fire-rated separation inside one floor and between different floors, e.g. separation of 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>Also show methods to ensure proper separation of high risk areas (e.g., generator room) 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 e.g. separation of 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>Ensure proper separation of high risk areas (e.g., generator room) 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>	N/A
<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 well-dressed cabling with lugs and remove loose cabling.</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>Remove burn/broken/loose MCB/MCCB box/socket.</p>
<p>Mid Term <i>(The remedial works indicated must be carried out within a period of 6 weeks)</i></p>	<p>Provide separate service ducts or insulated conduits for electrical cables.</p> <p>Provide new Emergency Lighting system.</p>
<p>Long Term <i>(The remedial works indicated must be carried out within a period of 6 months)</i></p>	N/A