

## **Summary of Preliminary Assessment on Structural, Fire and Electrical Safety**

Name of the Factory	: Tex Tailor Export (Bd) Ltd.
Address of the Factory	: House # 320/3, Ward # 2, Nur Madina Masjid Road, Kawlar, Maddhya Para, Dakshin Khan, Dhaka-1229
Present Status of the Factory	: Under Operation
Structural Assessment Conducted by	: BUET
Date of Structural Inspection	: 5 <sup>th</sup> November 2014

### **BASIC INFORMATION:**

The factory building is a single story shed supported by truss on RC and steel pipe columns. The following information was noted:

i.	Building Usage Type	: Garment factory
ii.	Structural System	: Truss shed on RC column and steel pipes
iii.	Roof System	: MS truss supported corrugated MS sheets
iv.	Floor Area	: Approximately 15200 sft
v.	No. of Stories	: One
vi.	Construction Year	: 2013
vii.	Foundation Type	: Individual footings (4'x4' and 3'x3' as per design drawing) at a depth of 7' from EGL
viii.	Design Drawings	: Approval (Dakshin Khan Union Parishad) and design (Engr. Masud Karim, FIEB-9314, Rajuk Reg-DMINB/CE-0275) drawing available.
ix.	Soil Investigation Report	: Available (Creative Soil Experts, 360 Adarsha Nagar, Maddhya Badda, Dhaka-1212)
x.	Construction Materials	: Reinforced Concrete (brick chips), Steel Pipe, MS angles, purlins, corrugated sheet, etc.
xi.	Generator	: Inside 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) : A Detail Engineering Assessment (DEA) has to be completed.

Long Term (6-months) : Necessary remediation's after completion of DEA.

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

Name of the Factory : Tex Tailor Export (BD) Ltd.

Fire & Electrical assessment conducted by : BUET

Date of Fire & Electrical Inspection : 23<sup>rd</sup> October 2014

**(A): Recommendations for Fire Safety corrective actions:**

<b>Fire Safety Issues</b>	
Immediate (the factory should not continue to be occupied until these non-conformities have been rectified):	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>Ensure minimum width of corridors, passageways and aisles.</p> <p>Remove all combustible materials from generator room. 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>Prepare drawings to ensure adequate horizontal fire-rated separation inside the floor space e.g. separation with storage offices, and work areas as per the Guidelines.</p> <p>Ensure all exit access doors are side-swinging type and open to the direction of traffic flow.</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 fire-rated separation and work areas.</p> <p>Ensure proper fire separation of high risk areas (e.g., generator room) as per approved design.</p> <p>Install proper detection and alarm system.</p>

### **(B): Recommendations for Electrical Safety corrective actions:**

<b>Electrical Safety Issues</b>	
<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>Provide cable trench and rubber mat in front of the panel. Ensure well-dressed cabling with lugs and remove loose cabling.</p> <p>Ensure earthing of panel body &amp; 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 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