

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

Name of the Factory	: CHARM FASHION
Address of the Factory	: 2690/A, Hathazari Road, Nandirhat, Chittagong, Bangladesh.
Present Status of the Factory	: Under Operation.
Structural Assessment Conducted by	: TUV
Date of Structural Inspection	: 28 <sup>th</sup> May, 2015
Fire Assessment Conducted by	: TUV
Date of Fire Inspection	: 28 <sup>th</sup> May, 2015
Electrical Assessment Conducted by	: TUV
Date of Electrical Inspection	: 28 <sup>th</sup> May, 2015
BGMEA Membership No.	: 5985
BKMEA Membership No.	: 1984

### **BASIC INFORMATION:**

The assessed factory building is a 2- Storey prefabricated steel building. The structural system of the building was steel beam column frame and steel beam with deck slab floor system. The factory operates in the building on an ownership basis. The following general information was noted:

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|-------------------------------|---|
| i. Building Usage Type        | : Garment Factory.  |
| ii. Structural System         | : Prefabricated steel shed.   |
| iii. Floor System             | : RCC slab supported on Steel beam system.  |
| iv. Floor Area                | : Total 28646 sft (including all floor).  |
| v. No. of Stories             | : 2-Storey.   |
| vi. Construction Year         | : Construction started in January, 2010.  |
| vii. Foundation Type          | : Isolated column footing foundation.   |
| viii. Design Drawings         | : Available (approval for a 2-Storey industrial building from CDA, Chittagong on the 27th of September, 2009) |
| ix. Soil Investigation Report | : Available.  |
| x. Construction Materials     | : Steel Beam, Column.   |
| xi. Generator                 | : Available at ground floor of factory 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) :

- Sections of plaster finish of wall to be removed to investigate if cracks penetrate the building structure or wall and carry out any remedial actions as directed by the Building Engineer for cracks on wall.

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

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

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<p>Immediate</p> <p><i>(the factory should not continue to be occupied until these non-conformities have been rectified):</i></p>	N/A
<p>Short Term</p> <p><i>(Actions that must be incorporated into a Fire Safety Management Plan immediately (1 ~ 2 weeks) and should be a regular activity</i></p>	<ul style="list-style-type: none"> <li>Periodically check fire pumps &amp; Maintain record properly.</li> </ul>
<p>Mid Term</p> <p><i>(The remedial works indicated must be carried out within a period of 6 weeks)</i></p>	<ul style="list-style-type: none"> <li>Replace all existing exit doors on evacuation routes, exit doors with side hinged type door, which swing outward and in the direction of travel. Swinging of the door should not constrict the width of the corridor / passage below 0.9 meter.</li> <li>Remove all locking device from all egress door. All exit doors should be open-able from the side they serve without the use of a key.</li> <li>Provide handrails on both side of each stairway with height of 0.9m measured from the nose of stair to the top of the handrail.</li> </ul>
<p>Long Term</p> <p><i>(The remedial works indicated must be carried out within a period of 6 months)</i></p>	<ul style="list-style-type: none"> <li>None.</li> </ul>

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

<p>Immediate</p> <p><i>(the factory should not continue to be occupied until these non-conformities have been rectified):</i></p>	<ul style="list-style-type: none"> <li>None.</li> </ul>
<p>Short Term</p> <p><i>(Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity</i></p>	<ul style="list-style-type: none"> <li>None.</li> </ul>
<p>Mid Term</p> <p><i>(The remedial works indicated must be carried out within a period of 6 weeks)</i></p>	<ul style="list-style-type: none"> <li>Seal the cable penetrations through walls adequately with fire resistive elements.</li> </ul>
<p>Long Term</p> <p><i>(The remedial works indicated must be</i></p>	<ul style="list-style-type: none"> <li>None.</li> </ul>

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<i>carried out within a period of 6 months)</i>	
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