

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory	: LOOP KNITWEAR LTD.
Address of the Factory	: Horinhati, Chandra, Kaliakoir, Gazipur.
Present status of the factory	: Non Operational.
Structural Assessment Conducted by	: TÜV SÜD Bangladesh (Pvt.) Ltd.
Date of Structural Inspection	: 2015-06-09
Fire Assessment Conducted by	: TÜV SÜD Bangladesh (Pvt.) Ltd.
Date of Fire Inspection	: 2015-06-09
Electrical Assessment Conducted by	: TÜV SÜD Bangladesh (Pvt.) Ltd.
Date of Electrical Inspection	: 2015-06-09
BGMEA Membership No.	: 5875

BASIC INFORMATION: After the visual observation following general information are noted:

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| i. Building Usage Type | : Garments factory. |
| ii. Structural System | : RCC Column supported profile shed building |
| iii. Floor System | : Not Applicable |
| iv. Floor Area | : Ground floor = 22960sft. |
| v. No. of Stories | : Single- storied. |
| vi. Construction Year | : Construction started in 2007 and completed in a single phase. |
| vii. Foundation Type | : Unknown. |
| viii. Design Drawings | : Not available. |
| ix. Soil Investigation Report | : Not available. |
| x. construction Materials | : Brick aggregate in all columns. |
| xi. Generator | : The generator room was located at the ground floor on the building plinth at the south side. |

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: No critical or high risk observation was found during the day of assessment in the factory. During the assessment, some non-conformity was found for which mid-term corrective action has been suggested. There is no need to suspend operation in the factory.

Short Term (Immediate) : N/A

Mid Term (6-weeks) : 1. As built architectural and engineering drawings to be prepared and submitted for approval by appropriate authorities. As part of this process the building engineer will be required to make a number of checks on the structural design as described in the following recommendations.

Long Term (6-months) : N/A

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

(A): Recommendations for Fire Safety corrective actions:

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

<p>Immediate</p> <p><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</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>	<p>Provide aisle marking with arrow guiding and exit signage on all Evacuation pathways or provided with overhead signage fixed at ceiling level.</p> <ul style="list-style-type: none"> - Illuminated exit sign should be posted above the exit door, - It should be clearly visible at all time, - Provide directional signs wherever necessary. - All exit doors should be clearly marked for easy identification. <p>Provide fire extinguisher at all floor and to keep the record for re filling & properly tagged.</p> <p>Place the extinguisher near the path of exit travel & easily accessible.</p> <p>Provide additional firefighting equipment like sand & water buckets near exit or easily accessible area for first phase firefighting.</p>
<p>Mid Term</p> <p><i>(The remedial works indicated must be carried out within a period of 6 weeks)</i></p>	<p>Replace all existing exit doors on evacuation routes, exit doors with side hinged type door, which swing outward and in the direction of travel.</p> <p>Swinging of the door should not constrict the width of the corridor / passage below 0.9 meter.</p> <p>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.</p> <p>Prepare proper plan and design for 4 hours fire rated barriers with 2 hours fire rated doors at ground floor generator room, boiler which is located adjacent to south side final exit-1 without proper fire separation.</p> <p>Prepare proper plan and design for 4 hours fire rated barriers with 2 hours fire rated door at ground floor generator, boiler which adjacent to dyeing section.</p> <p>The egress paths should be illuminated with emergency lighting with power back-up supply & illumination should be a minimum of 10 lux for all corridors & exit doors. Aisles should be provided with a minimum 2 lux.</p> <p>Produce design and plan for automatic detection system with automatic fire alarm.</p>

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

	<p>Install Manual activation call point at all exit routes.</p> <p>Prepare proper design and plan for dedicated fire pump with alternate backup power supply.</p> <p>Prepare plan and design for dedicated water storage tank for firefighting operation as per RMG guideline.</p>
Long Term (The remedial works indicated must be carried out within a period of 6 months)	<p>Provide 4 hours fire rated barriers with 2 hours fire rated doors at ground floor generator room, boiler which is located adjacent to south side final exit-1 without proper fire separation.</p> <p>Provide 4 hours fire rated barriers with 2 hours fire rated door at ground floor generator room, which adjacent to dyeing section</p> <p>Install automatic detection system with automatic fire alarm.</p> <p>Install dedicated fire pump with alternate backup power supply.</p> <p>Provide sufficient number of hose pipe with respect to area and travel distance as per RMG guideline.</p> <p>Provide dedicated storage tank for firefighting operation.</p>

(B): Recommendations for Electrical Safety corrective actions:

As the entire electrical system of the factory was not in working condition. The level of compliance of the factory could not be determined for any of the 74 checkpoints as per the NTPA guidelines.