

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory	: Dawn Garments Limited.
Address of the Factory	: Near Rupayan Maath, Ashulia, Savar, Dhaka.
Present Status of the Factory	: Under operation.
Structural Assessment Conducted by	:
Date of Structural Inspection	:
Fire Assessment Conducted by	: BUET
Date of Fire Inspection	: 16 January 2014
Electrical Assessment Conducted by	: BUET
Date of Electrical Inspection	: 16 January 2014
BGMEA Membership No.	: 625

BASIC INFORMATION:

The following information was noted:

- i. Building Usage Type : Garment Factory.
- ii. Structural System :
- iii. Floor System :
- iv. Floor Area :
- v. No. of Stories :
- vi. Construction Year :
- vii. Foundation Type :
- viii. Design Drawings :
- ix. Soil Investigation Report :
- x. Construction Materials :
- xi. Generator :

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:

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| Short Term (Immediate) | : |
| Mid Term (6-weeks) | : |
| Long Term (6-months) | : |

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

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(A): Recommendations for Fire 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"> • Keep corridors and passageways on escape routes free of any obstructions to ensure unobstructed path of travel along the aisles, corridors, and passageways to the exits • Relocate work benches, temporary storage in such a way that corridors, passageways and aisles are at least 1.0m wide on all escape routes • Rearrange storage items to ensure proper clearance from ceiling.
<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>N/A</p>
<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"> • Provide design drawings to demonstrate how designated storage areas, assembly areas, offices and work areas should be separated with fire-rated walls and doors according to the Guideline occupancy separation will be achieved. • Retrofitting of internal layout needed with appropriate drawings following guidelines. • Provide drawings to arrange adequate number of doorways at each floor as per the Guidelines and produce the plan for construction of these doorways. • Provide floor plans with equipment, worker and work space arrangements to ensure appropriate occupancy load as per the Guidelines • Produce design drawings to demonstrate how stairways are to be made of adequate dimensions and appropriate specifications and to be converted into smoke-proof enclosures equipped with Fire-rated side swinging doors opening in the direction of travel at each floor. • Provide easily identifiable escape routes, clear and free of obstruction. • Provide clearly visible illuminated exit sign to indicate exit from storage area. • Provide cover on naked light. • Provide adequate number and type of illuminated exit signs so that exits can be seen from all corridors and evacuation paths. • Provide English and Bangla Exit instructions where

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	<p>necessary.</p> <ul style="list-style-type: none"> • Post directional signs at appropriate locations. • Provide fire extinguishers that meet the requirements of the Guidelines. • Produce design drawings to demonstrate the incorporation of fire rated enclosure from floor to ceiling and an approved fire rated self-closing swing door for the Generator room.
<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"> • Mixed use buildings and Buildings housing RMGs, use some floors that fall under “Mixed Occupancy” (e.g. Storage, Office, Work areas, etc.). The designated storage areas, assembly areas, offices and work areas should be separated with fire rated walls and doors according to the Guidelines. • Different occupancy in different floors should be separated with fire-rated construction according to the Guidelines • Doors on all escape routes to open in the direction of travel • Ensure adequate number of doorways in each floor according to the occupant load as per the Guidelines. • Internal retrofitting needed to create safe passage, corridors and exits as per the guidelines • Ensure appropriate workspace for the occupant load of each floor as per the Guidelines • Change layout of workstations to ensure allowable occupancy load as per the guidelines. • Ensure prevention of fire and smoke propagation through vertical shafts by providing fire rated enclosures around the openings along with seals in shafts and ducts at floor separations. • Provide service duct for electrical cables. • Convert all interior stairways into smoke proof enclosures equipped with Fire-rated side swinging doors opening in the direction of travel at each floor. • Provide stairways of adequate dimensions and of appropriate specifications according to the Guidelines as required for the occupancy load. • Remove Sliding doors from all Final Exits. Where sliding doors are provided at final exits, these shall not be relied on for means of exit.

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	<ul style="list-style-type: none"> • Provide fire doors as approved by the Guidelines • Provide fire-rated solid walls from floor to ceiling to ensure fire separation of the storage area from others or maintaining proper storage size and distance between stored items as per the Guideline • Provide smoke and heat vents as required (e.g. Storage, etc.) • Provide new Emergency Lighting system that meets the specified emergency lighting requirements of the Guidelines. • Provide fire rated enclosure from floor to ceiling and an approved fire rated self-closing swing door for the Generator room
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(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"> • Ensure all connection with lugs and proper cable dressing
<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>	N/A
<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"> • Provide clear identification mark on MDB/DB/SDB and provide SLD • Provide design drawings for the fire detection and alarm system in accordance with the Guideline requirements and hazard situation, (with appropriate specifications and drawings) showing how they will be implemented along with implementation plan.
<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"> • Provide appropriate Lightning protection system. • Install the fire detection and alarm systems in accordance with the Guideline requirements and hazard situation (based on appropriate specifications and drawings).