

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory	: Bonny Apparels (Pvt) Ltd.(U-2)
Address of the Factory	: 1, DIT Road, Khilgaon Chowdhury Para Dhaka - 1217
Present Status of the Factory	: Under operation.
Structural Assessment Conducted by	:
Date of Structural Inspection	:
Fire Assessment Conducted by	:
Date of Fire Inspection	:
Electrical Assessment Conducted by	:
Date of Electrical Inspection	:
BGMEA Membership No.	: 3051

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) | : |

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

(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 aisles, corridors and passageways on escape routes free of any obstructions that could hinder free movement. • Relocate work benches, temporary storage in such a way that corridors, passageways and aisles are at least 1.0 m wide on all escape routes. • Seal the shafts in the floors when it is not needed. • Seal the shaft with noncombustible materials at each floor. • Remove obstructions from stairways • Rearrange storage items to ensure proper clearance from ceiling. • Provide training to the Trainers • Include Fire Drill and Training of the Trainers in Fire Safety Management Plan • Ensure double earthing of generator frame • Provide cover on the cable trench
<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"> • Remove temporary structure from roof top • Produce drawings to demonstrate how occupancy separation will be achieved for different floors. • Produce drawings and show methods to demonstrate how prevention of smoke and fire propagation through voids between floors and interior walls (including stairways and lift shaft, if any) will be ensured with fire-rated assembly according to 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.

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	<ul style="list-style-type: none"> • Provide clearly visible illuminated exit sign to indicate exit from storage area. • Provide cover on naked light. • Provide drawings and plans for installation of Fire Lift as per the specifications provided in the Guidelines. • Provide English and Bangla Exit instructions where necessary. • Provide fire extinguishers that meet the requirements of the Guidelines. • Provide adequate number of additional fire-fighting equipment to meet the Factory Rules • 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 boiler room. • Provide firefighting equipment as required by the Guidelines • Provide over current and earth fault protection
<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"> • Separate different occupancy in different floors with fire-rated assembly according to the Guidelines. • Prevent smoke and fire propagation through voids between floors and interior walls (including stair and lift shaft, if any) with fire-rated assembly according to the Guidelines. • Ensure adequate number of exit doorways with minimum width (0.9m) in each floor according to the occupant load as per the Guidelines. • Ensure minimum width of corridors and Passageways between fixed elements in all exit ways according to the Guidelines • Ensure prevention of fire and smoke propagation through vertical shafts by providing fire rated enclosures around the openings along with seals and fire dampers 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. • Close wall openings adjacent to the exterior staircases to prevent fire and smoke propagation • The ground floor exits should be enclosed

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	<p>so as to ensure safe pathway for escape from the premises.</p> <ul style="list-style-type: none">• Provide continuous smoke-proof fire protected pathway along all the stairways from roof to the final exit.• Provide stairways of adequate dimensions and of appropriate specifications according to the Guidelines as required for the occupancy load.• Remove all collapsible security gates and roller shutters from all exit stairway access door• 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 Fire Lift in building matching the specifications provided in the Guidelines• Provide new Emergency Lighting system that meets the specified emergency lighting requirements of the Guidelines.• Equip Command Station with all facilities required to meet the Guidelines requirements.• Provide standard Standpipe& Hose system that complies with the Guidelines requirements for supply of water, minimum pressure in the standpipe and size (diameter) of the standpipe.• Ensure that Siamese connections are available as specified by the Guidelines.• Provide Fire pump with specifications to meet the Guidelines requirements• Provide fire rated enclosure from floor to ceiling and an approved fire rated self-closing swing door for the boiler room.• 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"> • Provide instructions for first aid from exposure to electrical shock • Ensure well-dressed cabling with lugs
<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>	<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 duplicate earth leads. • Provide earthing to body & door. • Provide earth bar/neutral bar • Provide appropriate Lightning protection system. • 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"> • Install the fire detection and alarm systems in accordance with the Guideline requirements and hazard situation (based on appropriate specifications and drawings). • Provide appropriate Lightning protection system