

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory	: M/S Uday Sweaters Limited
Address of the Factory	: 123 Chashara, Masjid Road, Jamtola, Narayanganj, Dhaka, Bangladesh.
Present Status of the Factory	: Under Operation.
Structural assessment conducted by	: Alliance
Date of Structural & Inspection	: 12 March 2014.
Fire & Electrical assessment conducted by	: Alliance
Date of Fire & Electrical Inspection	: 12 March 2014.

BASIC INFORMATION:

The present garments factory is a six storied factory building with beam-column frame system. The following general information was noted:

- i. Building Usage Type : Garments factory
- ii. Structural System : 1 RCC Building for main factory building and 1 steel shed for Generator.
- iii. Floor System : RC beam column frame building
- iv. Floor Area : 120000 sft (total)
- v. No. of Stories : 6 storied
- vi. Construction Year : 2000 to 2001
- vii. Foundation Type : Document not found.
- viii. Design Drawings : Not available.
- ix. Soil investigation Report : Not available.
- x. Construction Materials : Reinforced concrete (brick ships)
- xi. Generator : The steel shed besides the main building.

RECOMMENDATIONS FOR CORRECTIVE ACTION:

The recommendations of corrective action for both Structural, Fire and Electrical Safety comprises in Short Term, Mid Term and Long Term basis.

The recommendations for Structural Safety corrective actions are:

Immediate	: NA
Short Term	: NA
Mid Term: (6 Weeks)	: DEA has to be completed.
Long Term: (6 Months)	: Necessary remediation after completion of DEA.

The recommendations for Fire Safety corrective actions are:

Immediate	NA
Short Term	NA

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Mid Term (6 Weeks)	<p>A certificate of occupancy was not found on site during the visit. Required for occupancy certificate (mention occupancy type) for each building.</p> <p>Occupant loads information is not posted on each floor in the factory. Occupant loads are to be posted for every assembly and production floor in a conspicuous space near the main point of egress in accordance with Alliance standard.</p>
Long Term (6 Months)	<p>Position of fire safety director is not filled. The duties of the Fire Safety Director shall include the following: (1) Establish internal and external rally points and communicate to all employees in the building. (2) Fire department pre-planning. (3) Conduct safety inspections as outlined in 13.10. (4) Ensure all testing of fire protection equipment is conducted in accordance with 13.11.</p> <p>A hot-work permit program is not found. Develop a hot work permit program. The program must comply with the requirements of NFPA 51B.</p> <p>Handrails are not provided on both sides of the stairs. Fire department connections not found. Fire department (Siamese) inlet connections shall be provided to allow fire department pumper equipment to supplement the fire protection systems. Fire department outlet connections shall be provided to allow fire department pumper vehicles to draw water from ground-level or underground water storage tanks. Connections shall match the Fire Service and Civil Defense hose thread standard.</p> <p>Standpipe System is not installed in the building. Standpipe systems shall be installed throughout all new and existing building and structures where the highest occupied floor is more than 10 m (33 ft) above grade or more than 10 m (33 ft) below grade.</p> <p>Collapsible gate and all doors are not side-hinged swinging type. All doors in a means of egress shall be of the side-hinged swinging type. Roll-down and sliding gates and shutters shall not be allowed.</p> <p>Notification and initiation devices for the fire alarm system are not installed. Pull stations at egress points, smoke detectors in air handling equipment, visual and audible devices spaced appropriately based on occupancy type. Reference NFPA 72.</p>

The recommendations for Electrical Safety corrective actions are:

Immediate	NA
Short Term (3 Weeks)	Inspection, maintenance, and testing procedures of the emergency generator need to be completed and documented.

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Mid Term (6 Weeks)	<p>Phase separators are need to provided between terminals on circuit breakers.</p> <p>Graded insulation/rubber mats are need to provide in front of switchboards and distribution boxes.</p> <p>Un-terminated wires found at distribution boards.</p> <p>Electrical wiring/cables are need to properly identified.</p> <p>Switchboards and/or distribution boards are need to properly grounded.</p> <p>Junction boxes and other electrical devices are need to provide with covers.</p> <p>Have a qualified electrical engineer develop an as-built single line diagram, detailing key components and the capacity of the electrical system.</p> <p>Multiple and looping cables observed at circuit breakers.</p>
Long Term (6 Months)	<p>Higher rated circuit breakers are connected with lower rated wiring.</p>