

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory : Bengal Glory Ltd.
Address of the Factory : 15/G, Jigatola, Dhaka – 1209
Present Status of the Factory : Under Operation
Structural Assessment Conducted by : BUET
Date of Structural Inspection : 21st November 2013

BASIC INFORMATION:

The factory building is a mixed occupancy six storied RC frame building. The building is on Sal-bollah (timber) pile foundation. The following information was noted:

- i. Building Usage Type : Mixed use; shops in GF and two garment factories in upper floors.
- ii. Structural System : RC frame Building (with some irregularity in framing)
- iii. Floor System : RC beam supported
- iv. Floor Area : Approximately 579 sq. m per floor
- v. No. of Stories : Six story
- vi. Construction Year : Up to five story in 1992 to 1993 and 5th floor in 1996.
- vii. Foundation Type : Sal-bollah (timber) Pile foundation (as per drawing)
- viii. Design Drawings : Available
- ix. Soil Boring Report : Available
- x. Construction Materials : Reinforced Concrete (brick chips).
- xi. Generator : In GF

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) : The factory owner has been instructed to prepare and submit a load plan for vetting.
- Mid Term (6-weeks) : Because of fire damage of the structure, it is recommended to have a Detail Engineering Assessment (DEA) of the structure within six weeks
- Long Term (6-months) : Necessary remediation's after completion of DEA

Name of the Factory : Bengal Glory Ltd.
Fire & Electrical assessment conducted by : BUET
Date of Fire & Electrical Inspection : 21 November 2013

(A): Recommendations for Fire Safety corrective actions:

Immediate <i>(the factory should not continue to be occupied until these non-conformities have been rectified):</i>	N/A
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<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>Remove all temporary obstructions from all escape routes, aisles and passageways.</p> <p>Remove all combustibile materials from generator room.</p> <p>Ensure minimum width of corridors, passageways and aisles.</p> <p>Ensure easy access to portable extinguishers and monitor and maintain the same at required interval as per guidelines.</p> <p>Provide proper directional sign and exit sign in Bangla and English as per guidelines</p>
<p>Mid Term</p> <p><i>(The remedial works indicated must be carried out within a period of 6 weeks)</i></p>	<p>Produce proper drawing and plans to create horizontal and vertical fire-rated separation for stairways of appropriate specifications, grills, storage and assembly areas, offices, work areas. Also design to ensure proper separation of high risk areas (e.g., generator, boiler, transformer and substation rooms) as per guidelines.</p> <p>Remove all collapsible gates/roller shutters/sliding doors. Produce design drawings to demonstrate how stairways are to be made of adequate dimensions and appropriate specifications and to be converted into fire-rated enclosures equipped with fire-rated side swinging doors of required dimensions opening in the direction of travel at each floor.</p> <p>Provide design to install proper detection and alarm system.</p>
<p>Long Term</p> <p><i>(The remedial works indicated must be carried out within a period of 6 months)</i></p>	<p>Install horizontal and vertical fire-rated separation for stairways, grills, storage and assembly areas, offices, work areas.</p> <p>Ensure proper fire separation of high risk areas (e.g., generator, boiler, transformer and substation rooms) as per approved design</p> <p>Install fire rated enclosure and doors at exit to the stairs to prevent smoke and fire propagation as per approved design</p> <p>Install proper detection and alarm system.</p> <p>Provide fire rated enclosure, install self closing fire rated door as per guidelines.</p>

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

(B): Recommendations for Electrical Safety corrective actions:

Immediate <i>(the factory should not continue to be occupied until these non-conformities have been rectified):</i>	N/A
Short Term <i>(Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity</i>	Provide instructions for first aid and artificial respiration from exposure to electrical shock. Ensure well-dressed cabling with lugs and remove loose cabling. Ensure earthing of panel body & door with fitted condition. Provide distribution board as per guideline and put identification mark on distribution panel.
Mid Term <i>(The remedial works indicated must be carried out within a period of 6 weeks)</i>	Provide separate service ducts for electrical cables. Provide new Emergency Lighting system Provide appropriate Lightning Protection System as per guidelines
Long Term <i>(The remedial works indicated must be carried out within a period of 6 months)</i>	N/A