

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory	: Dekko Garments Ltd.
Address of the Factory	: Plot C-35, Purobi Super Market, Section 7, Pallabi, Mirpur, Dhaka-1216
Present Status of the Factory	: Under Operation
Structural Assessment Conducted by	: BUET
Date of Structural Inspection	: 24 th September 2014

BASIC INFORMATION:

The factory building is a six storied RC frame commercial building. Initially, the plan of the building was approved by RAJUK in 1993, later revised drawing was approved in 1998. The following information was noted:

- i. Building Usage Type : Mixed (Garments factory, Shop)
- ii. Structural System : RC Frame Building
- iii. Floor System : RC beam supported slab
- iv. Floor Area : Approximately 9,900 sft per floor (Largest grid is 14.0 ft×14.5 ft).
- v. No. of Stories : six storied
- vi. Construction Year : 1986-1988
- vii. Foundation Type : Isolated column footing (1.98 m × 1.82 m for all columns as per drawing)
- viii. Design Drawings : No proper structural & architectural drawing is available
- ix. Soil Boring Report : not available
- x. Construction Materials : Reinforced Concrete, Coarse Aggregate is brick chips
- xi. Generator : outside the building

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. PVC water tanks on roof must be distributed over the whole area of roof to prevent excessive loading in some areas. Waste materials must be removed from roof.

Mid Term (6-weeks) : A Detail Engineering Assessment (DEA) has to be completed.

Long Term (6-months) : Necessary remediation's after completion of DEA.

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

Name of the Factory	: Dekko Garments Ltd.
Fire & Electrical assessment conducted by	: BUET
Date of Fire & Electrical Inspection	: 21 st December 2014

(A): Recommendations for Fire Safety corrective actions:

Fire Safety Issues	
Immediate (the factory should not continue to be occupied until these non-conformities have been rectified):	N/A

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<p>Short Term (Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity)</p>	<p>Confirm adequate numbers of fire drills.</p> <p>Make sure that portable extinguishers are easily accessible, monitored and maintained at regular interval as per the Guidelines.</p> <p>Provide proper directional signs and exit signs in Bangla and English as per the Guidelines.</p>
<p>Mid Term (The remedial works indicated must be carried out within a period of 6 weeks)</p>	<p>Prepare drawings to ensure adequate horizontal and vertical fire-rated separation inside the floor e.g. separation with stairways, storage, work areas as per the Guidelines.</p> <p>Ensure all exit access doors are side-swinging type and open to the direction of traffic flow.</p> <p>Produce drawings to demonstrate how stairways are to be made of appropriate specifications and to be converted into fire-rated enclosures equipped with fire-rated doors.</p> <p>Provide design to install proper detection and alarm system.</p>
<p>Long Term (The remedial works indicated must be carried out within a period of 6 months)</p>	<p>Ensure adequate horizontal and vertical fire-rated separation inside the floor e.g. separation with stairways, storage and work areas.</p> <p>Install proper detection and alarm system.</p> <p>Provide fire rated enclosure, install self-closing fire rated door as per guidelines.</p>

(B): Recommendations for Electrical Safety corrective actions:

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