

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory	: ASAD KNIT WEAR LTD.
Address of the Factory	: L.S.N Plaza, 6528, Madrasa Road, NorthGazirchat, Unique, Ashulia, Saver, Dhaka
Present Status of the Factory	: Under operation.
Structural Assessment Conducted by	:
Date of Structural Inspection	:
Fire Assessment Conducted by	: VEC
Date of Fire Inspection	: 20 May, 2015
Electrical Assessment Conducted by	: VEC
Date of Electrical Inspection	: 20 May, 2015
BKMEA Membership No.	: 1886

BASIC INFORMATION:

The factory building is a three storied RCC building with beam and column system and flat slab system. The following information was noted:

i. Building Usage Type	: Garment Factory.
ii. Structural System	:
iii. Floor System	:
iv. Floor Area	:
v. No. of Stories	: 6 Storied
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:

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>	<p>N/A</p>
<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>Factory needs to have sufficient number & width (0.9m) of marked aisles at all floor of the Production building.</p> <p>Lights in storage area needed to be installed with protective covers and conduits</p>
<p>Mid Term</p> <p><i>(The remedial works indicated must be carried out within a period of 6 weeks)</i></p>	<p>Needs to have as built drawing with proper dimensions showing means of escape</p> <p>Factory Manager/Director needs to arrange fire safety training for the workers of the factory from proper authority time to time.</p> <p>Factory need to have proper testing plan & record for fire safety equipment.</p> <p>All the exit doors need to be replaced by side swinging so that unlockable doors can be opened easily in the direction of evacuation without the use of a key.</p> <p>All the stairways need to have handrail on both sides. Ensure adequate illuminated emergency lighting in floors, exits & staircases</p> <p>Factory need to have emergency backup power for critical fire safety system with sufficient capacity & arrangement according to NTPA Guideline</p>
<p>Long Term</p> <p><i>(The remedial works indicated must be carried out within a period of 6 months)</i></p>	<p>Factory needs to prepare fire department pre-plan and issue from BGMEA or Fire service and Civil Defense or others.</p> <p>At south-east escape routes [which are stair-1 to final exit-1], need to protect from ground floor area to provide protected paths of travel (2 hours fire rated construction with 1.5 hours fire rated opening) till to reach safe refuse area.</p> <p>Childcare needs to be separated from finishing section with 3 hours rated construction and 2 hours rated opening or door.</p> <p>Storage area need to be protected with 2 hours rated onstruction</p>

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	<p>& 1.5 hours rated opening or doors with the packing section of 5th floor.</p> <p>Boiler: Boiler room need to be protected with 4 hours rated construction & 2 hours rated opening / door from the working floor (Finishing & Iron section) of 1st floor of the building</p> <p>Generator: Generator room need to be protected with 4 hours rated construction & 2 hours rated opening / door from stair-2 as well as from the final exit route-2 located at ground floor The entire exits connecting to the staircases(2 nos staircase) need to be protected with fire and smoke resistant enclosures and opening (2 hour rated enclosure and 1.5 hour rated door)and provide a protected route from all though the stairway to the final exits.</p> <p>Factory need to install with proper sitting arrangement of detectors shall be considering 900 sft area of each detectors centralized as per NTPA guideline.</p> <p>The factory need to install manually operated electrical fire alarm system and automatic fire alarm system with single or multiple call boxes on all occupied floors, including other tenanted floors of the building.</p> <p>Factory needs to install control panel for centralized automatic smoke detection & fire alarm system according to NTPA Guideline. Factory needs to install proper standpipe system having at least 100mm dia of riser according to NTPA guideline.</p> <p>Ensure the minimum pressure for standpipes supplying a 50mm or larger hose shall be at least 300 Kpa. For standpipe supplying first aid hose (38mm nominal) may have a minimum pressure of 200 Kpa.</p> <p>Factory needs to be installed with Siamese connection for to the standpipe system located outside the building and accessible to the fire department connection.</p> <p>Factory needs to have dedicated fire pump with backup power system & sufficient capacity for achieve required pressure in the remote place of the factory.</p>
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(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>	
Short Term <i>(Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity</i>	
Mid Term <i>(The remedial works indicated must be carried out within a period of 6 weeks)</i>	
Long Term <i>(The remedial works indicated must be carried out within a period of 6 months)</i>	