

Summary of Preliminary Assessment on Structural, Fire and Electrical Safety

Name of the Factory	: Advance Attire Ltd.
Address of the Factory	: 25/2 Sha Ali Bagh, 4th&5th floor, Mirpur – 1, Dhaka-1216.
Present Status of the Factory	: Under Operation
Structural Assessment Conducted by	: BUET
Date of Structural Inspection	: 2013-12-06
Fire Assessment Conducted by	: BUET
Date of Fire Inspection	: 2014-09-23
Electrical Assessment Conducted by	: BUET
Date of Electrical Inspection	: 2014-09-23
BGMEA Membership No.	: 4432

BASIC INFORMATION:

i. Building Usage Type	: Garments Factory.
ii. Structural System	: RCC Frame Building.
iii. Floor System	: Edge supported RC slab (no info on slab thickness was Available)
iv. Floor Area	: Approximately 1025sq. m per floor with typical grid of 6.35m By 4.83m.
v. No. of Stories	: Eight story and partly 8th floor
vi. Construction Year	: Not available (appears to be around mid-90)
vii. Foundation Type	: Isolated footing (as per drawing).
viii. Design Drawings	: Available (Part)
ix. Soil Investigation Report	: Available
x. construction Materials	: Reinforced Concrete ,as Coarse aggregate brick chips, Reported).
xi. Generator	: At ground floor.

RECOMMENDATIONS FOR CORRECTIVE ACTION:

Short Term (Immediate)	: 1. A minimum of 4 number 4inch diameter cores (3inch if taken from column) are to be taken in column locations and tested with results used in the DEA report. 2. The building has extra floors without approval and should be removed as soon as possible. 3. Other than ground floor all areas of storage loading is to be limited to 40psf (21(N/m ²),
Mid Term (6-weeks)	: 1. No further construction is to be carried out on this building until approval of the DEA is provided.
Long Term (6-months)	: 1. Due to concerns of high stress in columns, core testing should be conducted within 6 months from issue date of this report. 2. No authentic foundation detail is available to evaluate the adequacy of the foundation system and therefore, the

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Consultants strongly recommend checking adequacy of the foundation in six months from issue date of this report.

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>	N/A
<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>	<ul style="list-style-type: none"> • Remove all temporary obstructions from all escape routes, aisles and passageways. • Remove all combustible materials from generator room. • Ensure minimum width of corridors, passageways and aisles.
<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"> • Produce proper drawing and plans to create horizontal and vertical fire-rated separation for stairways of appropriate specifications, grills, storage, offices and work areas. Also design to ensure proper separation of high risk areas (e.g. Generator, boiler, transformer and substation rooms) as per guidelines. • Remove all collapsible gates and roller shutters. 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. • Provide design to install proper detection and alarm system. • Install command station as per guidelines.
<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 horizontal and vertical fire-rated separation for stairways of appropriate specifications, grills, and storage and work areas. • Ensure proper fire separation of high risk areas (e.g. Generator, boiler, transformer and substation rooms) as per approved design. • Install fire rated enclosure and doors of appropriate dimensions at exit

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	<p>to the stairs to prevent smoke and fire propagation as per approved design.</p> <ul style="list-style-type: none"> • Install proper detection and alarm system.
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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>	N/A
<p>Short Term <i>(Actions that must be incorporated into a Fire Safety Management Plan immediately (a week) and should be a regular activity)</i></p>	<ul style="list-style-type: none"> • Provide instructions for first aid and artificial respiration from exposure to electrical shock. • Provide cover on the cable trench and rubber mat in front of the panel. • 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. • Remove broken/loose MCB/MCCB box/socket.
<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 separate service ducts for electrical cables. • Provide new Emergency Lighting system. • Provide appropriate Lightning Protection System as per guidelines.

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Long Term <i>(The remedial works indicated must be carried out within a period of 6 months)</i>	N/A
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